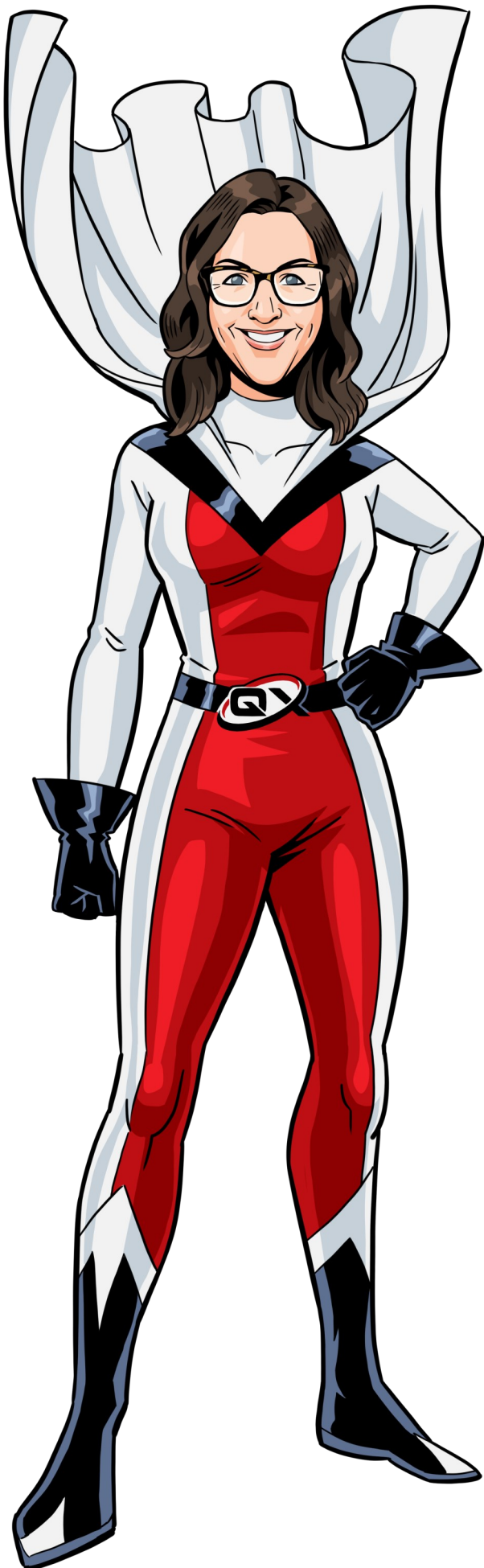




# 2024 PARTS CATALOG

## STEERING GEARS & PUMPS



“

## **At QX Heavy Duty**

there is no question of quality.

Our units are produced right alongside the OE products our factory supplies to manufacturers all over the world.

We have held TS 16949:2009, ISO 14001:2004 and OHSAS 18001 certifications since 2004.

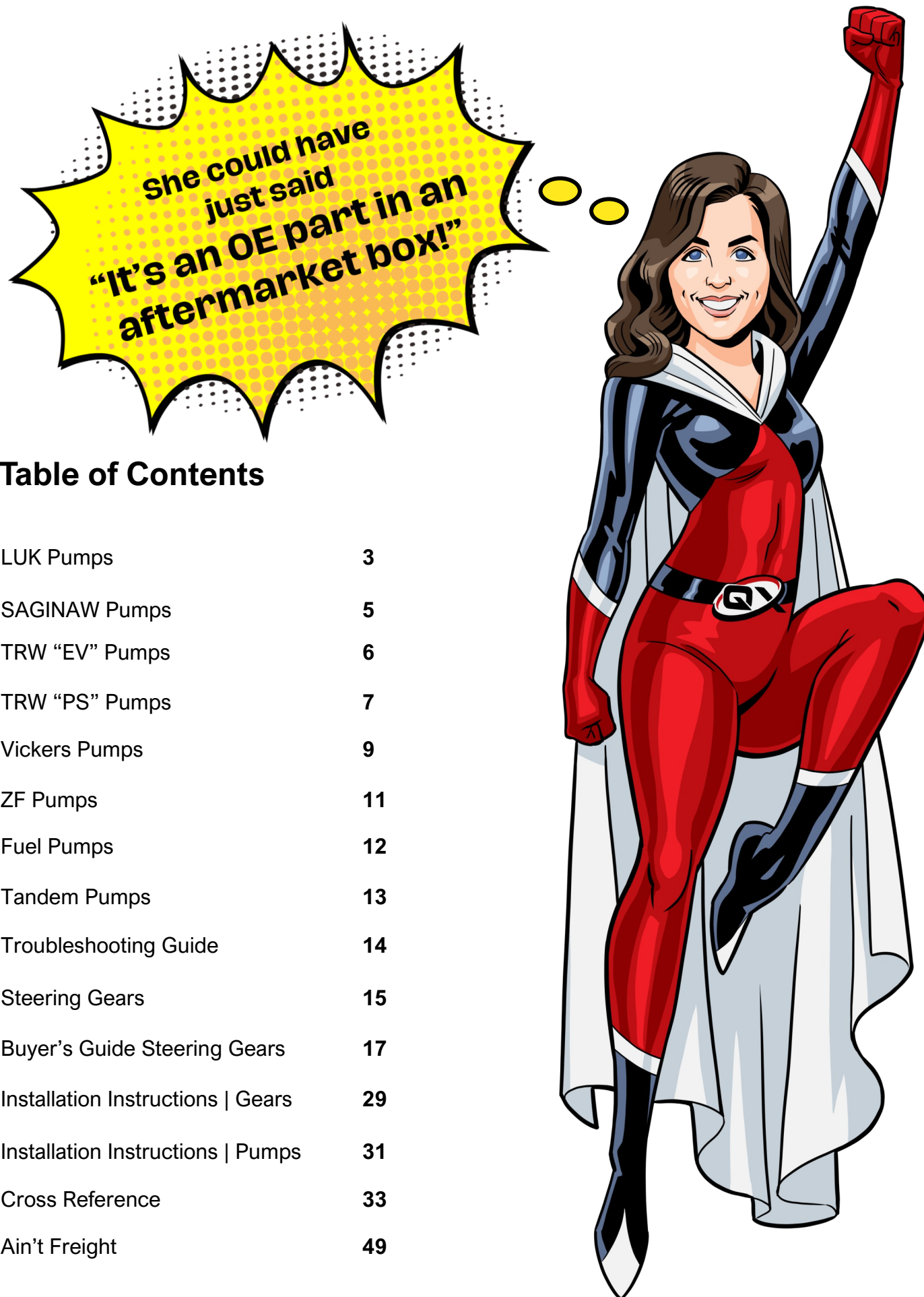
Our factory is very capable and exceptionally nimble, inasmuch as we are our own supply chain. Our vertical integration strategies are present throughout our processes. Castings and critical components are made in-house on the most advanced computerized equipment available anywhere in the world. Heat treating processes are performed in house, utilizing fully automated, multi-stage, atmospherically controlled furnaces. Final assembly and testing are done in a clean-room environment, assuring the tightest contaminate prevention standards in the industry.

We are committed to providing products and services that meet or exceed all customer requirements and applicable standards.

**QX Heavy Duty is OE Quality.**

It's who we are.

”



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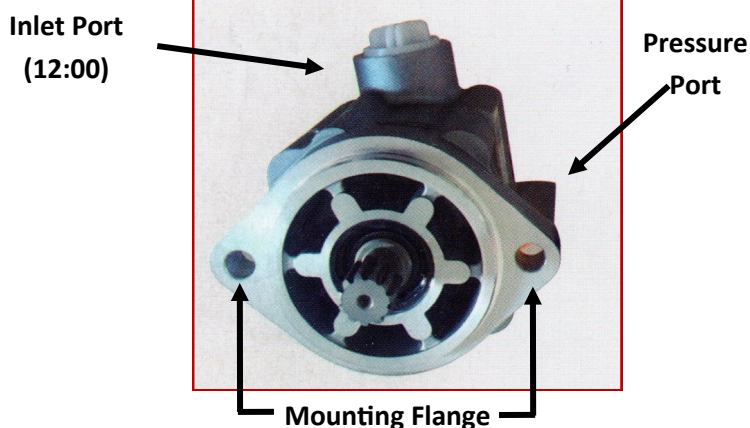
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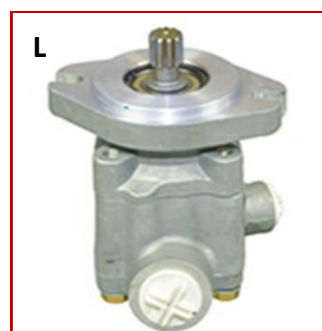
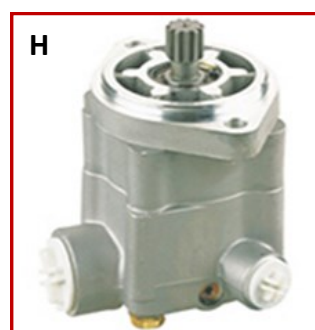
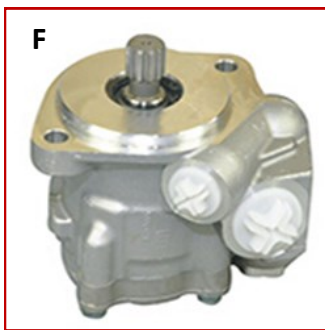
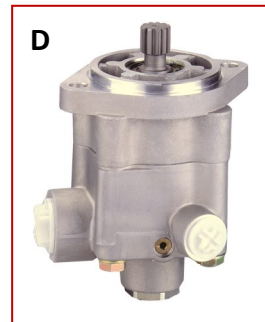
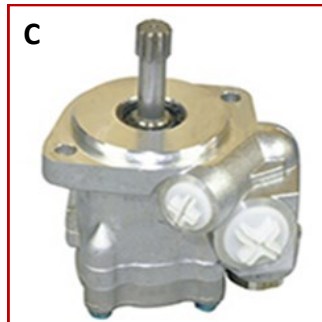
# LUK PUMP IDENTIFICATION GUIDE

It is always best to compare the tag number with the cross reference guide.  
Alternatively, correct pump identification can be achieved by following these steps:

1. View pump from the shaft end.
2. Orient the Inlet Port (large port) at 12:00
3. Note the location of the Pressure Port—Right Side or Left Side. Picture shows Right Side Pressure Port.
4. Note the mounting flange holes—Horizontal or Vertical. Picture shows Horizontal Flange.
5. Note Port Sizes & Pressure & Flow specs.
6. Note pump rotation when viewed from shaft end; CW (right) or CCW (left).
7. Compare specs with chart on next page and Illustrations



## ILLUSTRATIONS





# LUK PUMP IDENTIFICATION GUIDE



**Note:** Not all valid MFG ID numbers are shown here.

Please consult the master interchange guide for additional listings

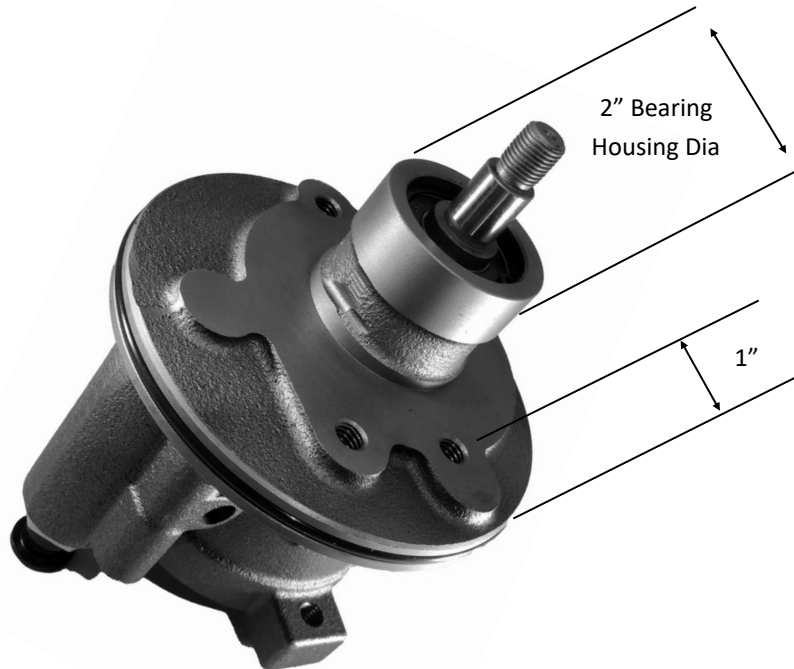
| Common<br>OE / MFG ID # | QXHD<br>Part # | Pressure<br>Port | Mounting<br>Flange | Pressure<br>Port Size | Inlet<br>Port Size | Pressure<br>(PSI) | Flow<br>(GPM) | Rotation | Illustration |
|-------------------------|----------------|------------------|--------------------|-----------------------|--------------------|-------------------|---------------|----------|--------------|
| 2106544                 | QX-615         | RIGHT            | VERT               | 3/4"-16-2B            | 1-1/16"-12-2B      | 2365              | 4.2           | CW       | A            |
| 2010412C92              | QX-484         | RIGHT            | HORIZ              | 3/4"-16               | 1-1/16"-12         | 2395              | 4.2           | CCW      | B            |
| 3535275C91              | QX-615A        | RIGHT            | VERT               | 3/4"-16-2B            | 1-1/16"-12-2B      | 2540              | 4.2           | CW       | A            |
| 3542059C91              | QX-436D        | RIGHT            | VERT               | 3/4"-16               | 1-1/16"-12         | 2175              | 4.2           | CW       | D            |
| 3623641C94              | QX-730         | HYT TYPE         |                    | 3/4"-16               | 1-1/16"-12         | 2685              | 4.2           | CCW      | E            |
| 3624643C91              | QX-2721        | HYT TYPE         |                    | 3/4"-16-2B            | 1-1/16"-12-2B      | 2685              | 4.2           | CW       | F            |
| 3807510C91              | QX-741A        | HYT TYPE         |                    | 3/4"-16-2B            | 1-1/16"-12-2B      | 2685              | 5.1           | CCW      | F            |
| 3820856C91              | QX-741         | HYT TYPE         |                    | 3/4"-16               | 1-1/16"-12         | 2395              | 5.8           | CCW      | F            |
| 3825468C91              | QX-769B        | HYT TYPE         |                    | 3/4"-16-2B            | 1-1/16"-12-2B      | 2395              | 5.8           | CW       | C            |
| 3836058C91              | QX-769         | HYT TYPE         |                    | 3/4"-16               | 1-1/16"-12         | 2685              | 4.2           | CW       | C            |
| 3836828C91              | QX-769A        | HYT TYPE         |                    | 3/4"-16-2B            | 1-1/16"-12-2B      | 2105              | 5.8           | CW       | C            |
| 542-0065-10             | QX-336E        | RIGHT            | HORIZ              | 3/4"-16-2B            | 1-1/16"-12         | 2175              | 3.9           | CW       | G            |
| 542-0130-10             | QX-336         | RIGHT            | HORIZ              | 3/4"-16               | 1-5/16"-12         | 2175              | 4.0           | CW       | G            |
| 542-0141-10             | QX-336G        | RIGHT            | HORIZ              | M18X1.5               | M26X1.5            | 2365              | 4.2           | CW       | G            |
| 542-0169-10             | QX-336A3       | RIGHT            | HORIZ              | 3/4"-16-2B            | 1-5/16"-12-2B      | 2175              | 5.9           | CCW      | G            |
| 542-0172-10             | QX-336-1       | LEFT             | HORIZ              | 3/4"-16               | 1-1/16"-12         | 2175              | 4.0           | CCW      | H            |
| 542-0176-10             | QX-336-2       | LEFT             | HORIZ              | 3/4"-16               | 1-5/16"-12         | 2175              | 3.7           | CCW      | H            |
| 542-0188-10             | QX-336A5       | RIGHT            | HORIZ              | 3/4"-16-2B            | 1-5/16"-12-2B      | 2175              | 4.6           | CCW      | G            |
| 542-0191-10             | QX-336C        | RIGHT            | HORIZ              | 3/4"-16               | 1-5/16"-12         | 2320              | 3.7           | CCW      | G            |
| 542-0195-10             | QX-336-5       | LEFT             | HORIZ              | 3/4"-16               | 1-1/16"-12         | 2365              | 4.2           | CW       | H            |
| 542-0212-10             | QX-336D        | RIGHT            | HORIZ              | M18X1.5               | M26X1.5            | 2175              | 4.2           | CCW      | G            |
| 542-0239-10             | QX-336A        | RIGHT            | HORIZ              | 3/4"-16-2B            | 1-5/16"-12-2B      | 1740              | 3.7           | CW       | G            |
| 542-0248-10             | QX-336A1       | RIGHT            | HORIZ              | 3/4"-16               | 1-5/16"-12         | 2175              | 5.9           | CW       | G            |
| 542-0267-10             | QX-336B        | RIGHT            | HORIZ              | 3/4"-16               | 1-1/16"-12         | 2395              | 6.6           | CW       | G            |
| 542-0269-10             | QX-336B1       | RIGHT            | HORIZ              | 3/4"-16               | 1-5/16"-12         | 2395              | 6.6           | CW       | G            |
| 542-0273-10             | QX-396         | LEFT             | VERT               | 3/4"-16               | 1-1/16"-12         | 2395              | 4.2           | CCW      | J            |
| 542-0320-10             | QX-436         | RIGHT            | VERT               | 3/4"-16               | 1-1/16"-12         | 2395              | 3.9           | CW       | D            |
| 542-0334-10             | QX-436A        | RIGHT            | VERT               | 3/4"-16               | 1-1/16"-12         | 2365              | 4.4           | CW       | D            |
| 542-0359-10             | QX-277-9       | TOP              | HORIZ              | 3/4"-16               | 1-1/16"-12         | 2175              | 5.0           | CCW      | K            |
| 542-0411-10             | QX-436C        | RIGHT            | VERT               | 3/4"-16               | 1-1/16"-12         | 2540              | 4.6           | CW       | D            |
| VT73515971              | QX-563-1       | LEFT             | HORIZ              | 3/4"-16-2B            | 1-1/16"-12-2B      | 2320              | 4.2           | CCW      | L            |



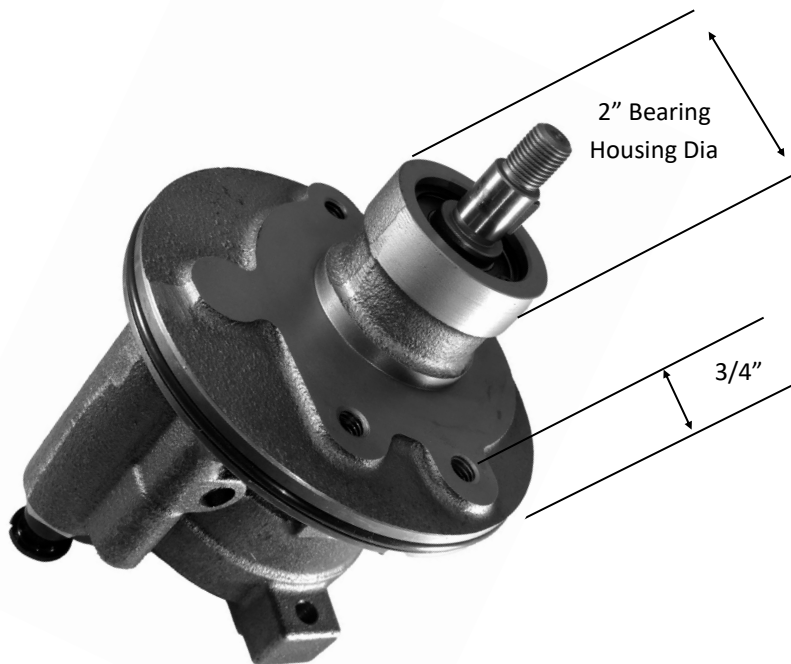
# SAGINAW PUMP IDENTIFICATION GUIDE

It is always best to compare the OE or tag number with the cross reference guide.

There are two common types of Saginaw pumps



| QXHD Part #<br>QX-137-4 |          |
|-------------------------|----------|
| Pressure                | 1450 PSI |
| Flow                    | 3.9 GPM  |
| Rotation                | CW       |



| QXHD Part #<br>QX-137-6 |          |
|-------------------------|----------|
| Pressure                | 1450 PSI |
| Flow                    | 3.9 GPM  |
| Rotation                | CW       |

# TRW "EV" PUMP IDENTIFICATION GUIDE

TRW Pumps have a Manufacturer ID tag attached to the pump housing.

This ID number details all the specifications of the pump.

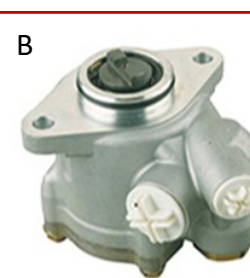
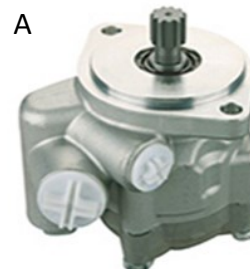


## Manufacturer ID Number Decoder

| EV                                     | 22      | 16              | 15       | L                 | 1         | 01                           | (01) |
|----------------------------------------|---------|-----------------|----------|-------------------|-----------|------------------------------|------|
| <b>Displacement<br/>Per Revolution</b> |         | <b>Pressure</b> |          | <b>Shaft Type</b> |           | <b>OE<br/>Code<br/>(Opt)</b> |      |
| 18                                     | 18cc    | 09              | 1300 PSI | 1                 | 11 spline | 01                           | Std  |
| 22                                     | 22cc    | 12              | 1740 PSI | 2                 | key slot  |                              |      |
| 25                                     | 25cc    | 14              | 2030 PSI | 3                 | drive dog |                              |      |
| 28                                     | 28cc    | 15              | 2175 PSI |                   |           |                              |      |
|                                        |         | 16              | 2320 PSI |                   |           |                              |      |
|                                        |         | 18              | 2680 PSI |                   |           |                              |      |
| <b>Flow Rate</b>                       |         | <b>Rotation</b> |          | <b>Port Type</b>  |           |                              |      |
| 12                                     | 3.2 GPM | L               | CCW      | 01                | JIC-A     |                              |      |
| 14                                     | 3.7 GPM | R               | CW       | 02                | Metric    |                              |      |
| 16                                     | 4.2 GPM |                 |          | 04                | JIC-B     |                              |      |
| 20                                     | 5.3 GPM |                 |          |                   |           |                              |      |
| 24                                     | 6.3 GPM |                 |          |                   |           |                              |      |

NOTE: The last 2 digits of the Mfg ID Number (OE Code) may or may not appear on the tag and has no effect on the specs of the pump.

## Illustrations



| MFG ID #     | QXHD Part # | Disp (CC) | Flow (GPM) | Pressure (PSI) | Rotation | Shaft     | Ports | Illustration |
|--------------|-------------|-----------|------------|----------------|----------|-----------|-------|--------------|
| EV181615L101 | QX-375-5    | 18        | 4.2        | 2175           | CCW      | 11 spline | JIC   | A            |
| EV181615R101 | QX-375-7    | 18        | 4.2        | 2175           | CW       | 11 spline | JIC   | A            |
| EV181616R101 | QX-375-10   | 18        | 4.2        | 2320           | CW       | 11 spline | JIC   | A            |
| EV181618L101 | QX-375-13   | 18        | 4.2        | 2680           | CCW      | 11 spline | JIC   | A            |
| EV181618R101 | QX-375-15   | 18        | 4.2        | 2680           | CW       | 11 spline | JIC   | A            |
| EV221609L101 | QX-375-12   | 22        | 4.2        | 1300           | CCW      | 11 spline | JIC   | A            |
| EV221609R101 | QX-375-11   | 22        | 4.2        | 1300           | CW       | 11 spline | JIC   | A            |
| EV221615L101 | QX-375      | 22        | 4.2        | 2175           | CCW      | 11 spline | JIC   | A            |
| EV221614L304 | QX-578      | 22        | 4.2        | 2030           | CCW      | Drive Dog | JIC   | B            |
| EV221615R101 | QX-375-1    | 22        | 4.2        | 2175           | CW       | 11 spline | JIC   | A            |
| EV221618L101 | QX-375-2    | 22        | 4.2        | 2680           | CCW      | 11 spline | JIC   | A            |
| EV221618I304 | QX-578-2    | 22        | 4.2        | 2680           | CCW      | Drive Dog | JIC   | B            |
| EV221618R101 | QX-375-3    | 22        | 4.2        | 2680           | CW       | 11 spline | JIC   | A            |
| EV221619L101 | QX-375D     | 22        | 4.2        | 2830           | CCW      | 11 spline | JIC   | A            |
| EV222418R101 | QX-375-16   | 22        | 6.3        | 2680           | CW       | 11 spline | JIC   | A            |
| EV251615L101 | QX-375-4    | 25        | 4.2        | 2175           | CCW      | 11 spline | JIC   | A            |
| EV251615R101 | QX-375-6    | 25        | 4.2        | 2175           | CW       | 11 spline | JIC   | A            |
| EV251618R101 | QX-375-6C   | 25        | 4.2        | 2680           | CW       | 11 spline | JIC   | A            |
| EV251618L101 | QX-375-13A  | 25        | 4.2        | 2680           | CCW      | 11 spline | JIC   | A            |
| EV252418L101 | QX-375-4H   | 25        | 6.3        | 2680           | CCW      | 11 spline | JIC   | A            |
| EV252418R101 | QX-375B     | 25        | 6.3        | 2680           | CW       | 11 spline | JOC   | A            |
| EV281615R101 | QX-375-14   | 28        | 4.2        | 2175           | CW       | 11 spline | JIC   | A            |
| EV282415R101 | QX-375-9    | 28        | 6.3        | 2175           | CW       | 11 spline | JIC   | A            |





# TRW "PS" PUMP IDENTIFICATION GUIDE

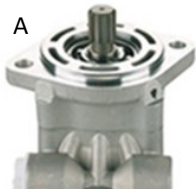
TRW Pumps have a Manufacturer ID tag attached to the pump housing.

This ID number details all the specifications of the pump.

## Manufacturer ID Number Decoder

| PS                             | 22   | 16        | 15      | L        | 1         | 01                                 | (01)               |                  |            |
|--------------------------------|------|-----------|---------|----------|-----------|------------------------------------|--------------------|------------------|------------|
| Displacement<br>Per Revolution |      | Flow Rate |         | Rotation |           | PORT LOCATION &<br>MOUNTING FLANGE |                    | OE Code<br>(Opt) |            |
| 18                             | 18cc | 12        | 3.2 GPM | L        | 11 spline | Pressure<br>Port                   | Inlet<br>Port      | 01 Std           |            |
| 22                             | 22cc | 14        | 3.7 GPM | R        | key slot  |                                    | Mounting<br>Flange |                  |            |
| 25                             | 25cc | 16        | 4.2 GPM |          | tapered   | 01                                 | RIGHT              | RIGHT            | HORIZ      |
| 28                             | 28cc | 20        | 5.3 GPM |          |           | 02                                 | RIGHT              | TOP              | HORIZ      |
| 32                             | 32cc | 24        | 6.3 GPM |          |           | 03                                 | RIGHT              | LEFT             | HORIZ      |
| 36                             | 36cc | 28        | 7.4 GPM |          |           | 04                                 | LEFT               | RIGHT            | HORIZ      |
|                                |      |           |         |          |           | 05                                 | LEFT               | TOP              | HORIZ      |
|                                |      |           |         |          |           | 06                                 | LEFT               | LEFT             | HORIZ      |
|                                |      |           |         |          |           | 07                                 | RIGHT              | RIGHT            | VERTICAL   |
|                                |      |           |         |          |           | 08                                 | RIGHT              | TOP              | VERTICAL   |
|                                |      |           |         |          |           | 09                                 | RIGHT              | LEFT             | VERTICAL   |
|                                |      |           |         |          |           | 10                                 | LEFT               | RIGHT            | VERTICAL   |
|                                |      |           |         |          |           | 11                                 | LEFT               | TOP              | VERTICAL   |
|                                |      |           |         |          |           | 12                                 | LEFT               | LEFT             | VERTICAL   |
|                                |      |           |         |          |           | 13                                 | RIGHT              | LEFT             | 18° OFFSET |
|                                |      |           |         |          |           | 14                                 | LEFT               | RIGHT            | 18° OFFSET |
|                                |      |           |         |          |           | 15                                 | LEFT               | TOP              | 18° OFFSET |
|                                |      |           |         |          |           | 16                                 | RIGHT              | TOP              | 18° OFFSET |
|                                |      |           |         |          |           | 26                                 | LEFT               | LEFT             | B-TYPE     |
|                                |      |           |         |          |           | 33                                 | RIGHT              | TOP              | B-TYPE     |
|                                |      |           |         |          |           | 34                                 | RIGHT              | LEFT             | B-TYPE     |

A



ILLUSTRATIONS

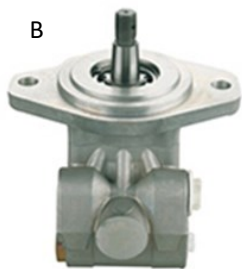
NOTE: The last 2 digits of the Mfg ID Number (OE Code) may or may not appear on the tag and has no affect on the specs of the pump.

## ILLUSTRATIONS



NOTE: The last 2 digits of the Mfg ID Number (OE Code) may or may not appear on the tag and has no effect on the specs of the pump.

\*Gear Included



| MFG ID #        | QXHD #     | Disp (CC) | Flow (GPM) | Pressure (PSI) | Rotation | Shaft     | Pressure Port | Inlet Port | Illustr |
|-----------------|------------|-----------|------------|----------------|----------|-----------|---------------|------------|---------|
| PS181415R102    | QX-539B-2  | 18        | 3.7        | 2175           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS181615R114    | QX-537-4   | 18        | 4.2        | 2175           | CW       | 11 spline | LEFT          | RIGHT      | A       |
| PS221612R326    | QX-528-1   | 22        | 4.2        | 1740           | CW       | Tapered   | LEFT          | LEFT       | B       |
| PS221615L103    | QX-573-4   | 22        | 4.2        | 2175           | CCW      | 11 spline | RIGHT         | LEFT       | C       |
| PS221615L116    | QX-583     | 22        | 4.2        | 2175           | CCW      | 11 spline | RIGHT         | TOP        | D       |
| PS221615R102    | QX-539-13  | 22        | 4.2        | 2175           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS221615R103    | QX-573-5   | 22        | 4.2        | 2175           | CW       | 11 spline | RIGHT         | LEFT       | C       |
| PS221615R114    | QX-537-5   | 22        | 4.2        | 2175           | CW       | 11 spline | LEFT          | RIGHT      | A       |
| PS221616R326    | QX-528     | 22        | 4.2        | 2320           | CW       | Tapered   | LEFT          | LEFT       | B       |
| PS221619L333A4* | QX-2104-1  | 22        | 4.2        | 2755           | CCW      | Tapered   | RIGHT         | TOP        | H       |
| PS221619L334A1* | QX-528N    | 22        | 4.2        | 2755           | CCW      | Tapered   | RIGHT         | LEFT       | M       |
| PS251613L111    | QX-850     | 25        | 4.2        | 1890           | CCW      | 11 spline | LEFT          | TOP        | F       |
| PS251613R102    | QX-539-6   | 25        | 4.2        | 1890           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS251614L102    | QX-539-4   | 25        | 4.2        | 2030           | CCW      | 11 spline | RIGHT         | TOP        | E       |
| PS251615L102    | QX-539-2   | 25        | 4.2        | 2175           | CCW      | 11 spline | RIGHT         | TOP        | E       |
| PS251615L105    | QX-539-8   | 25        | 4.2        | 2175           | CCW      | 11 spline | LEFT          | TOP        | G       |
| PS251615L113    | QX-573-3   | 25        | 4.2        | 2175           | CCW      | 11 spline | RIGHT         | LEFT       | K       |
| PS251615R102    | QX-539     | 25        | 4.2        | 2175           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS251615R105    | QX-539-10  | 25        | 4.2        | 2175           | CW       | 11 spline | LEFT          | TOP        | G       |
| PS251615R114    | QX-537-1   | 25        | 4.2        | 2175           | CW       | 11 spline | LEFT          | RIGHT      | A       |
| PS252415L103    | QX-573-7   | 25        | 6.3        | 2175           | CCW      | 11 spline | RIGHT         | LEFT       | C       |
| PS252415R102    | QX-539-6C  | 25        | 6.3        | 2175           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS252415R114    | QX-537-3   | 25        | 6.3        | 2175           | CCW      | 11 spline | LEFT          | RIGHT      | A       |
| PS281615R102    | QX-539-14  | 28        | 4.2        | 2175           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS282013L111    | QX-850-2   | 28        | 5.3        | 1890           | CCW      | 11 spline | LEFT          | TOP        | F       |
| PS282013R102    | QX-539-11  | 28        | 5.3        | 1890           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS282015R102    | QX-539-7   | 28        | 5.3        | 2175           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS282416L106    | QX-2097-1  | 28        | 6.3        | 2320           | CCW      | 11 spline | LEFT          | LEFT       | J       |
| PS282416R106    | QX-2097A   | 28        | 6.3        | 2320           | CW       | 11 spline | LEFT          | LEFT       | J       |
| PS282417R103    | QX-573-6   | 28        | 6.3        | 2465           | CW       | 11 spline | RIGHT         | LEFT       | C       |
| PS282815L103    | QX-573-2   | 28        | 7.4        | 2175           | CCW      | 11 spline | RIGHT         | LEFT       | C       |
| PS282815L114    | QX-537-2   | 28        | 7.4        | 2175           | CCW      | 11 spline | LEFT          | RIGHT      | A       |
| PS282815L116    | QX-583-1   | 28        | 7.4        | 2175           | CCW      | 11 spline | RIGHT         | TOP        | D       |
| PS282815R114    | QX-537     | 28        | 7.4        | 2175           | CW       | 11 spline | LEFT          | RIGHT      | A       |
| PS282816R105    | QX-539-5   | 28        | 7.4        | 2320           | CW       | 11 spline | RIGHT         | TOP        | G       |
| PS322415R103    | QX-718     | 32        | 6.3        | 2175           | CW       | 11 spline | RIGHT         | TOP        | C       |
| PS322418R103    | QX-718-2   | 32        | 6.3        | 2610           | CW       | 11 spline | RIGHT         | LEFT       | K       |
| PS362415L111    | QX-850-4   | 36        | 6.3        | 2175           | CCW      | 11 spline | LEFT          | TOP        | F       |
| PS362415R102    | QX-539-12  | 36        | 6.3        | 2175           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS362415R105    | QX-539-9   | 36        | 6.3        | 2175           | CW       | 11 spline | LEFT          | TOP        | G       |
| PS362418R103    | QX-725-2   | 36        | 6.3        | 2610           | CW       | 11 spline | RIGHT         | LEFT       | C       |
| PS362815L102    | QX-669     | 36        | 7.4        | 2175           | CCW      | 11 spline | RIGHT         | TOP        | E       |
| PS362815L103    | QX-725     | 36        | 7.4        | 2175           | CCW      | 11 spline | RIGHT         | LEFT       | C       |
| PS362815L105    | QX-539-9B1 | 36        | 7.4        | 2175           | CCW      | 11 spline | LEFT          | TOP        | G       |
| PS362815L111    | QX-850-5   | 36        | 7.4        | 2175           | CCW      | 11 spline | LEFT          | TOP        | F       |
| PS362815L113    | QX-726     | 36        | 7.4        | 2175           | CCW      | 11 spline | RIGHT         | LEFT       | K       |
| PS362815R102    | QX-669-1   | 36        | 7.4        | 2175           | CW       | 11 spline | RIGHT         | TOP        | E       |
| PS362815R103    | QX-725-3   | 36        | 7.4        | 2175           | CW       | 11 spline | RIGHT         | LEFT       | C       |
| PS362816R105    | QX-539-9C  | 36        | 7.4        | 2320           | CW       | 11 spline | LEFT          | TOP        | G       |
| PS362818R102    | QX-669-1A  | 36        | 7.4        | 2610           | CW       | 11 spline | RIGHT         | TOP        | E       |



# VICKERS PUMP IDENTIFICATION GUIDE

Vickers Pumps have a Manufacturer ID tag attached to the pump housing or the ID number is stamped into the back plate.

This ID number details all the specifications of the pump.

## Manufacturer ID Number Decoder

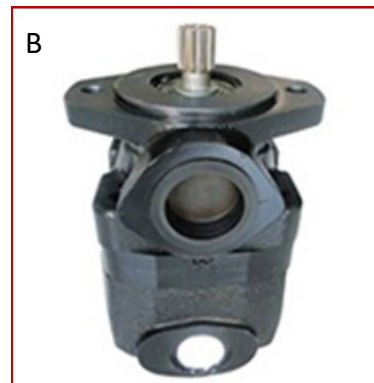
| V10                                                                                                                                                                                                  | (F)                                                                                                                                                                                                                                                                                                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | P               | 9            | P             | 38                            | C                  | 6                  | G         | (20)                 | (L)                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|---------------|-------------------------------|--------------------|--------------------|-----------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|--------|---------|------------|---------|--------|---------|--------------------|---------|-------------------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|--------|-------|--------|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|---|--------------|---|----------|---|----------|---|--------------|----|-----------|----|------------|----|------|----|----------|----|-----------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|---|----------------------|---|--------------------|---|--------------------|---|-------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|---|---------|---|---------|---|---------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|-------------------------------------------------------------------------------------------------------------------------|----------|--|---|-----|--------|----|--|
| <table><tr><th>SERIES</th></tr><tr><td>V10</td></tr><tr><td>V20</td></tr></table>                                                                                                                    | SERIES                                                                                                                                                                                                                                                                                                                      | V10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V20             |              |               |                               |                    |                    |           |                      | <table><tr><th colspan="2">Flow Rate</th></tr><tr><td>1</td><td>1 GPM</td></tr><tr><td>2</td><td>2 GPM</td></tr><tr><td>2.5</td><td>2.5 GPM</td></tr><tr><td>3</td><td>3 GPM</td></tr><tr><td>4</td><td>4 GPM</td></tr><tr><td>5</td><td>5 GPM</td></tr><tr><td>6</td><td>6 GPM</td></tr><tr><td>7</td><td>7 GPM</td></tr><tr><td>8</td><td>8 GPM</td></tr></table> | Flow Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   | 1                 | 1 GPM             | 2      | 2 GPM   | 2.5        | 2.5 GPM | 3      | 3 GPM   | 4                  | 4 GPM   | 5                 | 5 GPM | 6                  | 6 GPM | 7     | 7 GPM | 8     | 8 GPM |       | <table><tr><th colspan="2">Model</th></tr><tr><td>11</td><td>Std/F</td></tr><tr><td>20</td><td>Std/F/<br/>(V10)</td></tr><tr><td>20</td><td>NF</td></tr><tr><td>22</td><td>NF</td></tr></table> | Model  |    | 11     | Std/F | 20     | Std/F/<br>(V10) | 20     | NF                                                                                                                                                                                                                                                                                                                                                                                                  | 22    | NF |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| SERIES                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| V10                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| V20                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| Flow Rate                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 1                                                                                                                                                                                                    | 1 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 2                                                                                                                                                                                                    | 2 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 2.5                                                                                                                                                                                                  | 2.5 GPM                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 3                                                                                                                                                                                                    | 3 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 4                                                                                                                                                                                                    | 4 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 5                                                                                                                                                                                                    | 5 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 6                                                                                                                                                                                                    | 6 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 7                                                                                                                                                                                                    | 7 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 8                                                                                                                                                                                                    | 8 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| Model                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 11                                                                                                                                                                                                   | Std/F                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 20                                                                                                                                                                                                   | Std/F/<br>(V10)                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 20                                                                                                                                                                                                   | NF                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 22                                                                                                                                                                                                   | NF                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| <table><tr><th colspan="2">Pump Cover</th></tr><tr><td>F</td><td>Flow Control</td></tr><tr><td>NF</td><td>Flow Control<br/>(2-line pump)</td></tr><tr><td>(none)</td><td>Std Cover</td></tr></table> | Pump Cover                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | F               | Flow Control | NF            | Flow Control<br>(2-line pump) | (none)             | Std Cover          |           |                      |                                                                                                                                                                                                                                                                                                                                                                     | <table><tr><th colspan="2">Ring Capacity</th></tr><tr><td>1</td><td>1 GPM</td></tr><tr><td>2</td><td>2 GPM</td></tr><tr><td>3</td><td>3 GPM</td></tr><tr><td>4</td><td>4 GPM</td></tr><tr><td>5</td><td>5 GPM</td></tr><tr><td>6</td><td>6 GPM</td></tr><tr><td>7</td><td>7 GPM</td></tr><tr><td>8</td><td>8 GPM</td></tr><tr><td>9</td><td>9 GPM</td></tr><tr><td>10</td><td>10 GPM</td></tr><tr><td>11</td><td>11 GPM</td></tr><tr><td>12</td><td>12 GPM</td></tr><tr><td>13</td><td>13 GPM</td></tr></table> | Ring Capacity     |                   | 1                 | 1 GPM  | 2       | 2 GPM      | 3       | 3 GPM  | 4       | 4 GPM              | 5       | 5 GPM             | 6     | 6 GPM              | 7     | 7 GPM | 8     | 8 GPM | 9     | 9 GPM | 10                                                                                                                                                                                              | 10 GPM | 11 | 11 GPM | 12    | 12 GPM | 13              | 13 GPM | <table><tr><th colspan="2">Shaft</th></tr><tr><td>1</td><td>Straight Key</td></tr><tr><td>3</td><td>Threaded</td></tr><tr><td>4</td><td>Threaded</td></tr><tr><td>6</td><td>Str Stub Key</td></tr><tr><td>11</td><td>9 Splines</td></tr><tr><td>12</td><td>13 Splines</td></tr><tr><td>27</td><td>Tang</td></tr><tr><td>34</td><td>Threaded</td></tr><tr><td>38</td><td>11 Spline</td></tr></table> | Shaft |    | 1 | Straight Key | 3 | Threaded | 4 | Threaded | 6 | Str Stub Key | 11 | 9 Splines | 12 | 13 Splines | 27 | Tang | 34 | Threaded | 38 | 11 Spline |  | <table><tr><th colspan="2">Pressure Port Position</th></tr><tr><td>A</td><td>Opposite from Return</td></tr><tr><td>B</td><td>90°CCW from Return</td></tr><tr><td>C</td><td>Inline with Return</td></tr><tr><td>D</td><td>90°CW from Return</td></tr></table> | Pressure Port Position |  | A | Opposite from Return | B | 90°CCW from Return | C | Inline with Return | D | 90°CW from Return |  | <table><tr><th colspan="2">Pressure</th></tr><tr><td>A</td><td>250 PSI</td></tr><tr><td>B</td><td>500 PSI</td></tr><tr><td>C</td><td>750 PSI</td></tr><tr><td>D</td><td>1000 PSI</td></tr><tr><td>E</td><td>1250 PSI</td></tr><tr><td>F</td><td>1500 PSI</td></tr><tr><td>G</td><td>1750 PSI</td></tr><tr><td>H</td><td>2000 PSI</td></tr><tr><td>J</td><td>2250 PSI</td></tr><tr><td>K</td><td>2500 PSI</td></tr></table> | Pressure |  | A | 250 PSI | B | 500 PSI | C | 750 PSI | D | 1000 PSI | E | 1250 PSI | F | 1500 PSI | G | 1750 PSI | H | 2000 PSI | J | 2250 PSI | K | 2500 PSI | <table><tr><th colspan="2">Rotation</th></tr><tr><td>L</td><td>CCW</td></tr><tr><td>(none)</td><td>CW</td></tr></table> | Rotation |  | L | CCW | (none) | CW |  |
| Pump Cover                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| F                                                                                                                                                                                                    | Flow Control                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| NF                                                                                                                                                                                                   | Flow Control<br>(2-line pump)                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| (none)                                                                                                                                                                                               | Std Cover                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| Ring Capacity                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 1                                                                                                                                                                                                    | 1 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 2                                                                                                                                                                                                    | 2 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 3                                                                                                                                                                                                    | 3 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 4                                                                                                                                                                                                    | 4 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 5                                                                                                                                                                                                    | 5 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 6                                                                                                                                                                                                    | 6 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 7                                                                                                                                                                                                    | 7 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 8                                                                                                                                                                                                    | 8 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 9                                                                                                                                                                                                    | 9 GPM                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 10                                                                                                                                                                                                   | 10 GPM                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
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| A                                                                                                                                                                                                    | 250 PSI                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| B                                                                                                                                                                                                    | 500 PSI                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| C                                                                                                                                                                                                    | 750 PSI                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| D                                                                                                                                                                                                    | 1000 PSI                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| E                                                                                                                                                                                                    | 1250 PSI                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| F                                                                                                                                                                                                    | 1500 PSI                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| G                                                                                                                                                                                                    | 1750 PSI                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| H                                                                                                                                                                                                    | 2000 PSI                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| J                                                                                                                                                                                                    | 2250 PSI                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| K                                                                                                                                                                                                    | 2500 PSI                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| Rotation                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| L                                                                                                                                                                                                    | CCW                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| (none)                                                                                                                                                                                               | CW                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
|                                                                                                                                                                                                      | <table><tr><th colspan="2">Mounting</th></tr><tr><td>1</td><td>2 Bolt Flange</td></tr><tr><td>2</td><td>12:00 Foot Bracket</td></tr><tr><td>4</td><td>Face Type</td></tr><tr><td>23</td><td>3:00 Foot Bracket</td></tr><tr><td>26</td><td>6:00 Foot Bracket</td></tr><tr><td>29</td><td>9:00 Foot Bracket</td></tr></table> | Mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | 1            | 2 Bolt Flange | 2                             | 12:00 Foot Bracket | 4                  | Face Type | 23                   | 3:00 Foot Bracket                                                                                                                                                                                                                                                                                                                                                   | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6:00 Foot Bracket | 29                | 9:00 Foot Bracket |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| Mounting                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 1                                                                                                                                                                                                    | 2 Bolt Flange                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 2                                                                                                                                                                                                    | 12:00 Foot Bracket                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 4                                                                                                                                                                                                    | Face Type                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 23                                                                                                                                                                                                   | 3:00 Foot Bracket                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 26                                                                                                                                                                                                   | 6:00 Foot Bracket                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| 29                                                                                                                                                                                                   | 9:00 Foot Bracket                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                             | <table><tr><th colspan="2">Inlet Port Type</th></tr><tr><td>D</td><td>1 5/16-12 str thrd</td></tr><tr><td>E</td><td>1.5" 2-bolt flange</td></tr><tr><td>F</td><td>1.156" 2-bolt flange</td></tr><tr><td>H</td><td>1" OD Tube</td></tr><tr><td>K</td><td>1 5/16-12 UN thrd</td></tr><tr><td>P (V10)</td><td>1" NPT</td></tr><tr><td>P (V20)</td><td>1 1/4" NPT</td></tr><tr><td>R</td><td>1" NPT</td></tr><tr><td>S (V10)</td><td>1 5/16-12 str thrd</td></tr><tr><td>S (V20)</td><td>1 5/8 -12 UN thrd</td></tr><tr><td>T</td><td>1 3/16-12 str thrd</td></tr></table> | Inlet Port Type |              | D             | 1 5/16-12 str thrd            | E                  | 1.5" 2-bolt flange | F         | 1.156" 2-bolt flange | H                                                                                                                                                                                                                                                                                                                                                                   | 1" OD Tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | K                 | 1 5/16-12 UN thrd | P (V10)           | 1" NPT | P (V20) | 1 1/4" NPT | R       | 1" NPT | S (V10) | 1 5/16-12 str thrd | S (V20) | 1 5/8 -12 UN thrd | T     | 1 3/16-12 str thrd |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| Inlet Port Type                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| D                                                                                                                                                                                                    | 1 5/16-12 str thrd                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| E                                                                                                                                                                                                    | 1.5" 2-bolt flange                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| F                                                                                                                                                                                                    | 1.156" 2-bolt flange                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| H                                                                                                                                                                                                    | 1" OD Tube                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| K                                                                                                                                                                                                    | 1 5/16-12 UN thrd                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| P (V10)                                                                                                                                                                                              | 1" NPT                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| P (V20)                                                                                                                                                                                              | 1 1/4" NPT                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| R                                                                                                                                                                                                    | 1" NPT                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| S (V10)                                                                                                                                                                                              | 1 5/16-12 str thrd                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| S (V20)                                                                                                                                                                                              | 1 5/8 -12 UN thrd                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
| T                                                                                                                                                                                                    | 1 3/16-12 str thrd                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |               |                               |                    |                    |           |                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                   |        |         |            |         |        |         |                    |         |                   |       |                    |       |       |       |       |       |       |                                                                                                                                                                                                 |        |    |        |       |        |                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     |       |    |   |              |   |          |   |          |   |              |    |           |    |            |    |      |    |          |    |           |  |                                                                                                                                                                                                                                                              |                        |  |   |                      |   |                    |   |                    |   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |          |  |   |         |   |         |   |         |   |          |   |          |   |          |   |          |   |          |   |          |   |          |                                                                                                                         |          |  |   |     |        |    |  |
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# VICKERS PUMP IDENTIFICATION GUIDE

Vickers Pumps have a Manufacturer ID tag attached to the pump housing or the ID number is stamped into the back plate. This ID number details all the specifications of the pump.



| MFG ID #          | QXHD Part # | Model | Flow (GPM) | Pressure (PSI) | Rotation | Shaft     | Pressure Port     | Inlet Port         | Illustr |
|-------------------|-------------|-------|------------|----------------|----------|-----------|-------------------|--------------------|---------|
| V10F1P6P38C6G     | QX-415      | V10   | 6          | 1750           | CW       | 11 spline | 3/4/2016 str thrd | 1" NPT             | A       |
| V10F1P7P38D5G20   | QX-415-1    | V10   | 5          | 1750           | CW       | 11 spline | 3/4/2016 str thrd | 1" NPT             | A       |
| V10NF1S6T38C5G    | QX-414      | V10   | 5          | 1750           | CW       | 11 spline | 3/4/2016 str thrd | 1 5/16-12 str thrd | A       |
| V20F1D9T38C6GL    | QX-731-2    | V20   | 6          | 1750           | CCW      | 11 spline | 3/4/2016 str thrd | 1 5/16-12 str thrd | B       |
| V20F1P11P38D6H11  | QX-381-2    | V20   | 6          | 2000           | CW       | 11 spline | 3/4/2016 str thrd | 1 1/4" NPT         | B       |
| V20F1P13P38B5H22  | QX-381-6    | V20   | 5          | 2000           | CW       | 11 spline | 3/4/2016 str thrd | 1 1/4" NPT         | B       |
| V20F1P9P38B5H22   | QX-381-6B   | V20   | 5          | 2000           | CW       | 11 spline | 3/4/2016 str thrd | 1 1/4" NPT         | B       |
| V20F1P9P38C6G     | QX-381-1    | V20   | 6          | 1750           | CW       | 11 spline | 3/4/2016 str thrd | 1 1/4" NPT         | B       |
| V20F1P9P38C6H     | QX-381      | V20   | 6          | 2000           | CW       | 11 spline | 3/4/2016 str thrd | 1 1/4" NPT         | B       |
| V20NF1D11P38C6G20 | QX-731-3    | V20   | 6          | 1750           | CW       | 11 spline | 3/4/2016 str thrd | 1 5/16-12 str thrd | B       |
| V20NF1D6P38C6G20  | QX-731      | V20   | 6          | 1750           | CW       | 11 spline | 3/4/2016 str thrd | 1 5/16-12 str thrd | B       |



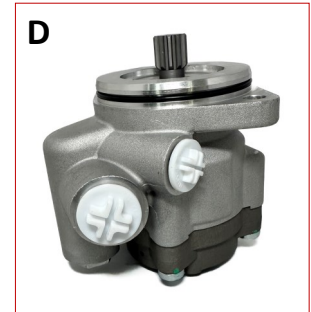
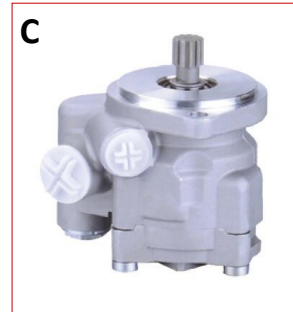




## ZF PUMP IDENTIFICATION GUIDE

ZF Pumps have a Manufacturer ID tag attached to the pump housing.

You must match the ID number or the OE number to ensure proper replacement.



| MFG ID #                             | QXHD Part #     | Pressure Port Size | Inlet Port Size | Pressure (PSI) | Flow (GPM) | Rotation | Illustration |
|--------------------------------------|-----------------|--------------------|-----------------|----------------|------------|----------|--------------|
| 1939437PE (21cc)<br>1939436PE (17cc) | <b>QX-783</b>   | M18X1.5            | M26X1.5         | N/A            | 5.3        | CCW      | D            |
| 3406Z07-010-A                        | <b>QX-18</b>    | M20X1.5            | M22X105         | 1885           | 4          | CW       | A            |
| ZF7674955343                         | <b>QX-257-1</b> | 3/4"-16            | 1-1/16"-12      | 2390           | 4.8        | CW       | B            |
| ZF7674955344                         | <b>QX-257-2</b> | 3/4"-16            | 1-1/16"-12      | 2390           | 4.8        | CCW      | B            |
| ZF7677955180                         | <b>QX-378</b>   | 3/4"-16            | 1-1/16"-12      | 2610           | 6.3        | CW       | B            |
| ZF7677955179                         | <b>QX-378-1</b> | 3/4"-16            | 1-1/16"-12      | 2610           | 6.3        | CCW      | B            |
| ZF7685955301                         | <b>QX-370-4</b> | M18X1.5            | M27X2           | 2320           | 4.2        | CCW      | C            |

# FUEL PUMPS



In stock now! →

| FUEL PUMP        | STYLE            | QXHD #          |
|------------------|------------------|-----------------|
| 1052508          | CATERPILLAR      | TBD             |
| 1375541          | CATERPILLAR      | TBD             |
| 20R1524          | CATERPILLAR      | TBD             |
| 3848611          | CATERPILLAR      | TBD             |
| <b>1939435PE</b> | <b>MX ENGINE</b> | <b>QXF-1040</b> |
| 2872545RX        | CUMMINS          | TBD             |
| 4089163RX        | CUMMINS          | TBD             |
| 4307021RX        | CUMMINS          | TBD             |
| 4307482RX        | CUMMINS          | TBD             |
| 440008174        | NAVISTAR         | TBD             |
| 5010870R92       | NAVISTAR         | TBD             |



## TANDEM PUMP IDENTIFICATION GUIDE

Tandem Pumps have a Manufacturer ID tag attached to the pump housing.

These are fuel and steering pumps combined into a single unit.

| MFG ID#      | QXHD #           | Displ (CC) | Flow (GPM) | Pressure (PSI)  | Shaft Type    | Pressure Port | Inlet Port | Rotation | Il-lustr | Style |
|--------------|------------------|------------|------------|-----------------|---------------|---------------|------------|----------|----------|-------|
| ZF8693974672 | <b>QX-2020-5</b> | 15cc       | 3.7        | 2610            | Gear 36 teeth | M16*1.5       | M26*1.5    | CCW      | A        | ZF    |
| ZF8695974635 | <b>QX-2020B</b>  | 21cc       | 6.3        | 2610            | Gear 31 teeth | M16*1.5       | M26*1.5    | CCW      | A        | ZF    |
| 1885524PE    | <b>QX-783-1</b>  | 21cc       | 4.2        | NO SAFETY VALVE | 11 Splines    | M18*1.5       | M26*1.5    | CCW      | B        | ZF    |

**A**



Volvo Mack DLL, D13 Engines

**B**



Paccar Engines

**Need a tandem pump we don't have?  
Give us a call and let us know!**

**Your input is extremely valuable  
as we expand our line!**

# TROUBLESHOOTING GUIDE



## **Drift / Wander**

Tire pressure too low / high / uneven  
Steering linkage loose or worn  
Wheel bearings worn or need adjustment  
Front / Rear end alignment out of spec  
Steering gear worn or needs adjustment  
Loose rear axle assemblies  
Dragging brakes  
Faulty shocks or springs  
Too much play in pitman arm

## **Excessive Heat**

Excessive pump flow  
Vehicle overload  
Hose or line, size  
Restriction in hose or line, kinked, bent or blocked  
Poppet not adjusted properly  
Prolonged stationary vehicle operation

## **Lost Motion (LASH) at steering wheel**

Steering wheel loose  
Check connection between steering gear, intermediate column and steering column  
Loose steering gear (frame)  
Pitman arm loose on output shaft  
Steering gear defective or improperly adjusted

## **No Recovery**

Low tire pressure  
Front end alignment off  
Front axle king pins too tight  
Binding in the steering column  
Insufficient pump flow  
Steering gear issues

## **Substantial Effort Required**

### ***One Direction:***

Unequal tire pressure  
Vehicle overload  
Inadequate hydraulic system pressure  
Excessive internal leakage in gear box  
Adjust valve

### ***Both Directions:***

Low tire pressure  
Vehicle overload  
Low hydraulic fluid level  
Incorrect hydraulic fluid used  
Low pressure or flow from pump  
Restriction in return line  
Return line diameter too small  
Excessive internal leakage  
Oversized tires  
Loose pump drive belt  
Lubrication needed  
Front end alignment off  
Air in hydraulic system

## **External Leakage**

Oil may run away from leak source. Check hoses, fittings, pump, gear, vent plug, etc...

## **Shimmy or Shake**

Worn tires / uneven  
Mounting issue with tire or wheel  
Worn wheel bearing  
Steering linkage loose or worn  
Wheels / Brake Drums out of balance  
Front end alignment off  
Air in hydraulic system

## TRW STYLE

| Series | Common ID | QXHD Number      | Application Data                                                                                                                                                                                                   |
|--------|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TAS400 | TAS40042  | <b>QXG-40042</b> | 1995 Ford FT800, F700<br>2003-2012 International 4000<br>3566388C91                                                                                                                                                |
| TAS650 | TAS65004  | <b>QXG-65004</b> | 1986-1995 Freightliner FLC, FC<br>1995-2007 Freightliner Century, Columbia, M2<br>2000-2002 Sterling 9000                                                                                                          |
| TAS650 | TAS65024  | <b>QXG-65024</b> | 1988-2010 Peterbilt 357, 377, 378, 379<br>10-02379, 10-02428                                                                                                                                                       |
| TAS650 | TAS65079  | <b>QXG-65079</b> | 1997-2009 Kenworth T800, W900                                                                                                                                                                                      |
| TAS650 | TAS65090  | <b>QXG-65090</b> | 1984-1995 Kenworth W900B, W900L<br>1987-2006 Kenworth T600, T800, W900S<br>1988-2006 Kenworth C500                                                                                                                 |
| TAS651 | TAS65155  | <b>QXG-65155</b> | 1996-2005 Freightliner C112 Century, C120 Century, FL112<br>2001-2005 Freightliner Columbia 112, 120                                                                                                               |
| TAS652 | TAS65218  | <b>QXG-65218</b> | 2006-2014 Kenworth T2000, T600, T700<br>2005-2014 Kenworth T800                                                                                                                                                    |
| TAS652 | TAS65219  | <b>QXG-65219</b> | 2006-2014 Kenworth T400, T600, T800, W900<br>2006-2014 Peterbilt 365, 367, 384, 386, 388, 389                                                                                                                      |
| TAS85  | TAS85142  | <b>QXG-85142</b> | 2005-2006 Freightliner M2 112<br>2012 Freightliner Coronado                                                                                                                                                        |
| TAS85  | TAS85145  | <b>QXG-85145</b> | 2006-2014 Kenworth T400, T600, T800, W900                                                                                                                                                                          |
| THP600 | THP60004  | <b>QXG-60004</b> | 2006-2014 Volvo VN<br>20447236, 5026865                                                                                                                                                                            |
| THP600 | THP60006  | <b>QXG-60006</b> | 2002 - 2018 Freightliner                                                                                                                                                                                           |
| THP600 | THP60008  | <b>QXG-60008</b> | 2002-2018 Freightliner, Western Star, Volvo<br>Cascadia, Columbia, Century, Coronado<br>2005 Sterling 8000                                                                                                         |
| THP600 | THP60010  | <b>QXG-60010</b> | 2005-2007 Freightliner C112 Century, C120 Century<br>2005-2009 Freightliner Columbia 112, 120<br>2005-2010 Sterling A8513, A9513, A9522<br>2008-2014 Freightliner M2 106, M2112<br>2009-2015 Freightliner Cascadia |





## SHEPPARD STYLE

| Series | Common ID | QXHD Number | Application Data                                                                   |
|--------|-----------|-------------|------------------------------------------------------------------------------------|
| HD94   | HD94PAH   | QXG-94PAH   | 2010-2014 ProStar                                                                  |
| M80    | M80SAW    | QXG-80SAW   | 2002-2012 International 7000<br>3558090C91                                         |
| M100   | M100PCL   | QXG-100PCL  | 1990-2002 International<br>2000,4000,8000<br>1659881C91, 2020263C91,<br>3589106C91 |
| M100   | M100PHE   | QXG-100PHE  | 1997-2006 International 7000,9000<br>3501032C91, 3519043C91                        |
| M100   | M100PMT   | QXG-100PMT  | 2003-2009 International 4000<br>354373C91, 3533789C92                              |
| M100   | M100PAH   | QXG-100PAH  | 1996 International 8000<br>1988-2003 International 9000<br>1657435C91, 2502008C91  |

## FORD

| QXHD Part # | Make | Model | Years | Type | Lines | OEM          | Casting   | Reman     |
|-------------|------|-------|-------|------|-------|--------------|-----------|-----------|
| QXG-40042   | Ford | FT800 | 1995  | TRW  | 2     | 4C4Z 3504 BA | TAS402285 | TAS40042R |
| QXG-40042   | Ford | FT800 | 1995  | TRW  | 2     | 4C4Z 3504 BA | TAS402594 | TAS40042R |
| QXG-40042   | Ford | FT800 | 1995  | TRW  | 2     | C4Z 3504 C   | TAS402285 | TAS40042R |
| QXG-40042   | Ford | FT800 | 1995  | TRW  | 2     | C4Z 3504 C   | TAS402594 | TAS40042R |
| QXG-40042   | Ford | FT800 | 1995  | TRW  | 2     | STG264       | TAS402285 | TAS40042R |
| QXG-40042   | Ford | FT800 | 1995  | TRW  | 2     | STG264       | TAS402594 | TAS40042R |

## FREIGHTLINER

| QXHD Part # | Make         | Model    | Years     | Type | Lines | OEM Part #   | Casting Part # | Reman Part # |
|-------------|--------------|----------|-----------|------|-------|--------------|----------------|--------------|
| QXG-60008   | Freightliner | 9000     | 2005-2007 | TRW  | 4     | 14-14741-000 | THP602295      | THP60008     |
| QXG-60010   | Freightliner | Cascadia | 2009-2015 | TRW  | 2     | 14-15701-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Cascadia | 2009-2015 | TRW  | 2     | 14-15702-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Cascadia | 2009-2015 | TRW  | 2     | 14-17726-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Cascadia | 2009-2015 | TRW  | 2     | 14-17727-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Century  | 2006      | TRW  | 2     | 14-15701-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Century  | 2006      | TRW  | 2     | 14-15702-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Century  | 2006      | TRW  | 2     | 14-17726-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Century  | 2006      | TRW  | 2     | 14-17727-000 | THP602295      | THP60010     |
| QXG-65004   | Freightliner | Century  | 1995-2007 | TRW  | 4     | 14-17712-000 | TAS652295      | TAS65004     |

# BUYER'S GUIDE | STEERING GEARS



## FREIGHTLINER

| QXHD Part # | Make         | Model    | Years     | Type | Lines | OEM Part #   | Casting Part # | Reman Part # |
|-------------|--------------|----------|-----------|------|-------|--------------|----------------|--------------|
| QXG-65004   | Freightliner | Century  | 1995-2007 | TRW  | 4     | 14-10334-000 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | Century  | 1995-2007 | TRW  | 4     | 14-10334-001 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | Century  | 1995-2007 | TRW  | 4     | 14-15664-000 | TAS652295      | TAS65004     |
| QXG-65155   | Freightliner | Century  | 1997-2005 | TRW  | 2     | 14-13451-000 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | Century  | 1997-2005 | TRW  | 2     | 14-13451-001 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | Century  | 1997-2005 | TRW  | 2     | 14-13452-000 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | Century  | 1997-2005 | TRW  | 2     | 14-13452-001 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | Century  | 1998-2005 | TRW  | 2     | 14-13451-000 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | Century  | 1998-2005 | TRW  | 2     | 14-13451-001 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | Century  | 1998-2005 | TRW  | 2     | 14-13452-000 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | Century  | 1998-2005 | TRW  | 2     | 14-13452-001 | TAS652262      | TAS65157     |
| QXG-65004   | Freightliner | Columbia | 1999      | TRW  | 4     | 14-10334-000 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | Columbia | 1999      | TRW  | 4     | 14-10334-001 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | Columbia | 1999      | TRW  | 4     | 14-15664-000 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | Columbia | 1999      | TRW  | 4     | 14-17712-000 | TAS652295      | TAS65004     |
| QXG-65155   | Freightliner | Columbia | 2001-2005 | TRW  | 2     | 14-13451-000 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | Columbia | 2001-2005 | TRW  | 2     | 14-13451-001 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | Columbia | 2001-2005 | TRW  | 2     | 14-13452-000 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | Columbia | 2001-2005 | TRW  | 2     | 14-13452-001 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | Columbia | 2001-2007 | TRW  | 2     | 14-13451-000 | TAS652262      | TAS65155     |



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## FREIGHTLINER

| QXHD Part # | Make         | Model    | Years     | Type | Lines | OEM Part #   | Casting Part # | Reman Part # |
|-------------|--------------|----------|-----------|------|-------|--------------|----------------|--------------|
| QXG-65155   | Freightliner | Columbia | 2001-2007 | TRW  | 2     | 14-13451-001 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | Columbia | 2001-2007 | TRW  | 2     | 14-13452-000 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | Columbia | 2001-2007 | TRW  | 2     | 14-13452-001 | TAS652262      | TAS65155     |
| QXG-60010   | Freightliner | Columbia | 2005-2009 | TRW  | 2     | 14-15701-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Columbia | 2005-2009 | TRW  | 2     | 14-15702-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Columbia | 2005-2009 | TRW  | 2     | 14-17726-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | Columbia | 2005-2009 | TRW  | 2     | 14-17727-000 | THP602295      | THP60010     |
| QXG-85142   | Freightliner | Coronado | 2012      | TRW  | 2     | 14-14945-000 | TAS852275      | TAS85142     |
| QXG-85142   | Freightliner | Coronado | 2012      | TRW  | 2     | 14-15332-000 | TAS852275      | TAS85142     |
| QXG-85142   | Freightliner | Coronado | 2012      | TRW  | 2     | 14-15332-001 | TAS852275      | TAS85142     |
| QXG-85142   | Freightliner | Coronado | 2012      | TRW  | 2     | 14-19117-000 | TAS852275      | TAS85142     |
| QXG-85142   | Freightliner | Coronado | 2012      | TRW  | 2     | 14-19372-000 | TAS852275      | TAS85142     |
| QXG-60008   | Freightliner | D2       | 2005-2007 | TRW  | 4     | 14-14741-000 | THP602295      | THP60008     |
| QXG-60008   | Freightliner | D2       | 2005-2007 | TRW  | 4     | 14-15331-000 | THP602295      | THP60008     |
| QXG-60008   | Freightliner | D2       | 2005-2007 | TRW  | 4     | 14-15331-000 | THP602295      | THP60008     |
| QXG-60008   | Freightliner | D2       | 2005-2007 | TRW  | 4     | 14-17725-000 | THP602295      | THP60008     |
| QXG-60008   | Freightliner | D2       | 2005-2007 | TRW  | 4     | 14-17725-000 | THP602295      | THP60008     |
| QXG-65004   | Freightliner | FC       | 1988-1997 | TRW  | 4     | 14-10334-000 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | FC       | 1988-1997 | TRW  | 4     | 14-10334-001 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | FC       | 1988-1997 | TRW  | 4     | 14-15664-000 | TAS652295      | TAS65004     |

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## FREIGHTLINER

| QXHD Part # | Make         | Model | Years     | Type | Lines | OEM Part #   | Casting Part # | Reman Part # |
|-------------|--------------|-------|-----------|------|-------|--------------|----------------|--------------|
| QXG-65004   | Freightliner | FC    | 1988-1997 | TRW  | 4     | 14-17712-000 | TAS652295      | TAS65004     |
| QXG-65155   | Freightliner | FL    | 1995-2001 | TRW  | 2     | 14-13451-000 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | FL    | 1995-2001 | TRW  | 2     | 14-13451-001 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | FL    | 1995-2001 | TRW  | 2     | 14-13452-000 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | FL    | 1995-2001 | TRW  | 2     | 14-13452-001 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | FL    | 2000-2003 | TRW  | 2     | 14-13451-000 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | FL    | 2000-2003 | TRW  | 2     | 14-13451-001 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | FL    | 2000-2003 | TRW  | 2     | 14-13452-000 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | FL    | 2000-2003 | TRW  | 2     | 14-13452-001 | TAS652262      | TAS65157     |
| QXG-60010   | Freightliner | FL    | 2000-2009 | TRW  | 2     | 14-15701-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | FL    | 2000-2009 | TRW  | 2     | 14-15702-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | FL    | 2000-2009 | TRW  | 2     | 14-17726-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | FL    | 2000-2009 | TRW  | 2     | 14-17727-000 | THP602295      | THP60010     |
| QXG-65004   | Freightliner | FLC   | 1986-1995 | TRW  | 4     | 14-10334-000 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | FLC   | 1986-1995 | TRW  | 4     | 14-10334-001 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | FLC   | 1986-1995 | TRW  | 4     | 14-15664-000 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | FLC   | 1986-1995 | TRW  | 4     | 14-17712-000 | TAS652295      | TAS65004     |
| QXG-60006   | Freightliner | FLC   | 2004-2007 | TRW  | 4     | 14-15040-000 | THP602299      | THP60006     |
| QXG-60006   | Freightliner | FLC   | 2004-2007 | TRW  | 4     | 14-17724-000 | THP602299      | THP60006     |
| QXG-65155   | Freightliner | FLD   | 2002      | TRW  | 2     | 14-13451-000 | TAS652262      | TAS65157     |



## FREIGHTLINER

| QXHD Part # | Make         | Model | Years     | Type | Lines | OEM Part #   | Casting Part # | Reman Part # |
|-------------|--------------|-------|-----------|------|-------|--------------|----------------|--------------|
| QXG-65155   | Freightliner | FLD   | 2002      | TRW  | 2     | 14-13451-001 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | FLD   | 2002      | TRW  | 2     | 14-13452-000 | TAS652262      | TAS65157     |
| QXG-65155   | Freightliner | FLD   | 2002      | TRW  | 2     | 14-13452-001 | TAS652262      | TAS65157     |
| QXG-60006   | Freightliner | M2    | 2005      | TRW  | 4     | 14-15040-000 | THP602299      | THP60006     |
| QXG-60006   | Freightliner | M2    | 2005      | TRW  | 4     | 14-17724-000 | THP602299      | THP60006     |
| QXG-65004   | Freightliner | M2    | 2007      | TRW  | 4     | 14-10334-000 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | M2    | 2007      | TRW  | 4     | 14-10334-001 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | M2    | 2007      | TRW  | 4     | 14-15664-000 | TAS652295      | TAS65004     |
| QXG-65004   | Freightliner | M2    | 2007      | TRW  | 4     | 14-17712-000 | TAS652295      | TAS65004     |
| QXG-85142   | Freightliner | M2    | 2005-2006 | TRW  | 2     | 14-14945-000 | TAS852275      | TAS85142     |
| QXG-85142   | Freightliner | M2    | 2005-2006 | TRW  | 2     | 14-15332-000 | TAS852275      | TAS85142     |
| QXG-85142   | Freightliner | M2    | 2005-2006 | TRW  | 2     | 14-15332-001 | TAS852275      | TAS85142     |
| QXG-85142   | Freightliner | M2    | 2005-2006 | TRW  | 2     | 14-19117-000 | TAS852275      | TAS85142     |
| QXG-85142   | Freightliner | M2    | 2005-2006 | TRW  | 2     | 14-19372-000 | TAS852275      | TAS85142     |
| QXG-60010   | Freightliner | M2    | 2008-2014 | TRW  | 2     | 14-15701-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | M2    | 2008-2014 | TRW  | 2     | 14-15702-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | M2    | 2008-2014 | TRW  | 2     | 14-17726-000 | THP602295      | THP60010     |
| QXG-60010   | Freightliner | M2    | 2008-2014 | TRW  | 2     | 14-17727-000 | THP602295      | THP60010     |
| QXG-65155   | Freightliner | ST    | 2001-2005 | TRW  | 2     | 14-13451-000 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | ST    | 2001-2005 | TRW  | 2     | 14-13451-001 | TAS652262      | TAS65155     |

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## FREIGHTLINER

| QXHD Part # | Make         | Model | Years     | Type | Lines | OEM Part #   | Casting Part # | Reman Part # |
|-------------|--------------|-------|-----------|------|-------|--------------|----------------|--------------|
| QXG-65155   | Freightliner | ST    | 2001-2005 | TRW  | 2     | 14-13452-000 | TAS652262      | TAS65155     |
| QXG-65155   | Freightliner | ST    | 2001-2005 | TRW  | 2     | 14-13452-001 | TAS652262      | TAS65155     |

## INTERNATIONAL

| QXHD Part # | Make          | Model | Years     | Type     | Lines | OEM Part #  | Casting Part # | Reman Part # |
|-------------|---------------|-------|-----------|----------|-------|-------------|----------------|--------------|
| QXG-100PCL  | International | 2000  | 1991-1999 | Sheppard | 4     | 1659881C91  | M100 MAN       | M100PCL      |
| QXG-100PCL  | International | 2000  | 1991-1999 | Sheppard | 4     | 2020263C91  | M100 MAN       | M100PCL      |
| QXG-100PCL  | International | 2000  | 1991-1999 | Sheppard | 4     | 3589106C91  | M100 MAN       | M100PCL      |
| QXG-100PCL  | International | 4000  | 1990-2002 | Sheppard | 4     | 1659881C91  | M100 MAN       | M100PCL      |
| QXG-100PCL  | International | 4000  | 1990-2002 | Sheppard | 4     | 2020263C91  | M100 MAN       | M100PCL      |
| QXG-100PCL  | International | 4000  | 1990-2002 | Sheppard | 4     | 3589106C91  | M100 MAN       | M100PCL      |
| QXG-100PMT  | International | 4000  | 2003-2009 | Sheppard | 2     | 354373C91   | M100 Man       | M100PMT      |
| QXG-100PMT  | International | 4000  | 2003-2009 | Sheppard | 2     | 3533789C92  | M100 Man       | M100PMT      |
| QXG-40042   | International | 4000  | 2004-2012 | TRW      | 2     | 3566388C91  | TAS402285      | TAS40042R    |
| QXG-40042   | International | 4000  | 2004-2012 | TRW      | 2     | 3566388C91  | TAS402594      | TAS40042R    |
| QXG-100PHE  | International | 7000  | 2004-2006 | Sheppard | 3     | 3501032C91  | M100 A/M       | M100PHE3     |
| QXG-100PHE  | International | 7000  | 2004-2006 | Sheppard | 3     | 3519043C91  | M100 A/M       | M100PHE3     |
| QXG-100PAH  | International | 8000  | 1996      | Sheppard | 4     | 1657435C91  | M100 Man       | M100PAH      |
| QXG-100PAH  | International | 8000  | 1996      | Sheppard | 4     | 25020098C91 | M100 Man       | M100PAH      |
| QXG-100PCL  | International | 8000  | 1990-2002 | Sheppard | 4     | 1659881C91  | M100 MAN       | M100PCL      |



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### INTERNATIONAL

| QXHD Part # | Make          | Model   | Years     | Type     | Lines | OEM Part #  | Casting Part # | Reman Part # |
|-------------|---------------|---------|-----------|----------|-------|-------------|----------------|--------------|
| QXG-100PCL  | International | 8000    | 1990-2002 | Sheppard | 4     | 2020263C91  | M100 MAN       | M100PCL      |
| QXG-100PCL  | International | 8000    | 1990-2002 | Sheppard | 4     | 3589106C91  | M100 MAN       | M100PCL      |
| QXG-100PAH  | International | 9000    | 1988-2003 | Sheppard | 4     | 1657435C91  | M100 Man       | M100PAH      |
| QXG-100PAH  | International | 9000    | 1988-2003 | Sheppard | 4     | 25020098C91 | M100 Man       | M100PAH      |
| QXG-100PHE  | International | 9000    | 1997-2006 | Sheppard | 3     | 3501032C91  | M100 A/M       | M100PHE3     |
| QXG-100PHE  | International | 9000    | 1997-2006 | Sheppard | 3     | 3519043C91  | M100 A/M       | M100PHE3     |
| QXG-94PAH   | International | Prostar | 1996      | Sheppard | 2     | 1657435C91  | M100 Man       | HD94PAH      |
| QXG-94PAH   | International | Prostar | 1996      | Sheppard | 2     | 2502008C91  | M100 Man       | HD94PAH      |
| QXG-94PAH   | International | Prostar | 1988-2003 | Sheppard | 2     | 1657435C91  | M100 Man       | HD94PAH      |
| QXG-94PAH   | International | Prostar | 1988-2003 | Sheppard | 2     | 2502008C91  | M100 Man       | HD94PAH      |

### KENWORTH

| QXHD Part # | Make     | Model | Years     | Type | Lines | OEM Part #    | Casting Part # | Reman Part # |
|-------------|----------|-------|-----------|------|-------|---------------|----------------|--------------|
| QXG-65218   | Kenworth | T2000 | 2006-2014 | TRW  | 4     | TAS65218AEXCH | TAS652249      | TAS65218RMAN |
| QXG-65090   | Kenworth | T400  | 1987-2006 | TRW  | 4     | TAS65090EXCH  | TAS652274      | TAS65090     |
| QXG-65090   | Kenworth | T400  | 1990-1992 | TRW  | 4     | TAS65080EXCH  | TAS652294      | TAS65007     |
| QXG-65219   | Kenworth | T400  | 2006-2014 | TRW  | 4     | TAS65219EXCH  | TAS652248      | TAS65219A    |
| QXG-65219   | Kenworth | T400  | 2006-2014 | TRW  | 4     | TAS65219RMAN  | TAS652248      | TAS65219A    |
| QXG-85145   | Kenworth | T400  | 2006-2014 | TRW  | 4     | TAS85145AEXCH | TAS852274      | TAS85145     |
| QXG-65090   | Kenworth | T600  | 1987-2006 | TRW  | 4     | TAS65090EXCH  | TAS652274      | TAS65090     |

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## KENWORTH

| QXHD Part # | Make     | Model | Years     | Type | Lines | OEM Part #    | Casting Part # | Reman Part # |
|-------------|----------|-------|-----------|------|-------|---------------|----------------|--------------|
| QXG-65218   | Kenworth | T600  | 2006-2014 | TRW  | 4     | TAS65218AEXCH | TAS652249      | TAS65218RMAN |
| QXG-65219   | Kenworth | T600  | 2006-2014 | TRW  | 4     | TAS65219EXCH  | TAS652248      | TAS65219A    |
| QXG-65219   | Kenworth | T600  | 2006-2014 | TRW  | 4     | TAS65219RMAN  | TAS652248      | TAS65219A    |
| QXG-85145   | Kenworth | T600  | 2006-2014 | TRW  | 4     | TAS85145AEXCH | TAS852274      | TAS85145     |
| QXG-65218   | Kenworth | T700  | 2006-2014 | TRW  | 4     | TAS65218AEXCH | TAS652249      | TAS65218RMAN |
| QXG-65079   | Kenworth | T800  | 2001      | TRW  | 4     | TAS65079EXCH  | TAS652296      | TAS65079     |
| QXG-65218   | Kenworth | T800  | 2005      | TRW  | 4     | TAS65218AEXCH | TAS652249      | TAS65218RMAN |
| QXG-65090   | Kenworth | T800  | 1987-2006 | TRW  | 4     | TAS65090EXCH  | TAS652274      | TAS65090     |
| QXG-65219   | Kenworth | T800  | 2006-2014 | TRW  | 4     | TAS65219EXCH  | TAS652248      | TAS65219A    |
| QXG-65219   | Kenworth | T800  | 2006-2014 | TRW  | 4     | TAS65219RMAN  | TAS652248      | TAS65219A    |
| QXG-85145   | Kenworth | T800  | 2006-2014 | TRW  | 4     | TAS85145AEXCH | TAS852274      | TAS85145     |
| QXG-65090   | Kenworth | W900  | 1987-2006 | TRW  | 4     | TAS65090EXCH  | TAS652274      | TAS65090     |
| QXG-65090   | Kenworth | W900  | 1988-1999 | TRW  | 4     | TAS65080EXCH  | TAS652294      | TAS65007     |
| QXG-65079   | Kenworth | W900  | 1997-2009 | TRW  | 4     | TAS65079EXCH  | TAS652296      | TAS65079     |
| QXG-65219   | Kenworth | W900  | 2006-2014 | TRW  | 4     | TAS65219EXCH  | TAS652248      | TAS65219A    |
| QXG-65219   | Kenworth | W900  | 2006-2014 | TRW  | 4     | TAS65219RMAN  | TAS652248      | TAS65219A    |
| QXG-85145   | Kenworth | W900  | 2006-2014 | TRW  | 4     | TAS85145AEXCH | TAS852274      | TAS85145     |



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## PETERBILT

| QXHD Part # | Make      | Model | Years     | Type | Lines | OEM          | Casting   | Reman     |
|-------------|-----------|-------|-----------|------|-------|--------------|-----------|-----------|
| QXG-65024   | Peterbilt | 362   | 1988-2010 | TRW  | 4     | RGT60005     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 362   | 1988-2010 | TRW  | 4     | 10-02379     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 362   | 1988-2010 | TRW  | 4     | 10-02428     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 362   | 1988-2010 | TRW  | 4     | 10-02458     | TAS652292 | TAS65024  |
| QXG-65219   | Peterbilt | 365   | 2006-2014 | TRW  | 4     | TAS65219EXCH | TAS652248 | TAS65219A |
| QXG-65219   | Peterbilt | 365   | 2006-2014 | TRW  | 4     | TAS65219RMAN | TAS652248 | TAS65219A |
| QXG-65219   | Peterbilt | 367   | 2006-2014 | TRW  | 4     | TAS65219EXCH | TAS652248 | TAS65219A |
| QXG-65219   | Peterbilt | 367   | 2006-2014 | TRW  | 4     | TAS65219RMAN | TAS652248 | TAS65219A |
| QXG-65024   | Peterbilt | 375   | 1988-2010 | TRW  | 4     | 10-02379     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 375   | 1988-2010 | TRW  | 4     | 10-02428     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 375   | 1988-2010 | TRW  | 4     | 10-02458     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 375   | 1988-2010 | TRW  | 4     | RGT60005     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 377   | 1988-2010 | TRW  | 4     | 10-02379     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 377   | 1988-2010 | TRW  | 4     | 10-02428     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 377   | 1988-2010 | TRW  | 4     | 10-02458     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 377   | 1988-2010 | TRW  | 4     | RGT60005     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 378   | 1988-2010 | TRW  | 4     | 10-02379     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 378   | 1988-2010 | TRW  | 4     | 10-02428     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 378   | 1988-2010 | TRW  | 4     | 10-02458     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 378   | 1988-2010 | TRW  | 4     | RGT60005     | TAS652292 | TAS65024  |



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## PETERBILT

| QXHD Part # | Make      | Model | Years     | Type | Lines | OEM          | Casting   | Reman     |
|-------------|-----------|-------|-----------|------|-------|--------------|-----------|-----------|
| QXG-65024   | Peterbilt | 379   | 1988-2010 | TRW  | 4     | 10-02379     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 379   | 1988-2010 | TRW  | 4     | 10-02428     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 379   | 1988-2010 | TRW  | 4     | 10-02458     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 379   | 1988-2010 | TRW  | 4     | RGT60005     | TAS652292 | TAS65024  |
| QXG-65219   | Peterbilt | 384   | 2006-2014 | TRW  | 4     | TAS65219EXCH | TAS652248 | TAS65219A |
| QXG-65219   | Peterbilt | 384   | 2006-2014 | TRW  | 4     | TAS65219RMAN | TAS652248 | TAS65219A |
| QXG-65024   | Peterbilt | 385   | 1988-2010 | TRW  | 4     | 10-02379     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 385   | 1988-2010 | TRW  | 4     | 10-02428     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 385   | 1988-2010 | TRW  | 4     | 10-02458     | TAS652292 | TAS65024  |
| QXG-65024   | Peterbilt | 385   | 1988-2010 | TRW  | 4     | RGT60005     | TAS652292 | TAS65024  |
| QXG-65219   | Peterbilt | 386   | 2006-2014 | TRW  | 4     | TAS65219EXCH | TAS652248 | TAS65219A |
| QXG-65219   | Peterbilt | 386   | 2006-2014 | TRW  | 4     | TAS65219RMAN | TAS652248 | TAS65219A |
| QXG-65219   | Peterbilt | 388   | 2006-2014 | TRW  | 4     | TAS65219EXCH | TAS652248 | TAS65219A |
| QXG-65219   | Peterbilt | 388   | 2006-2014 | TRW  | 4     | TAS65219RMAN | TAS652248 | TAS65219A |
| QXG-65219   | Peterbilt | 389   | 2006-2014 | TRW  | 4     | TAS65219EXCH | TAS652248 | TAS65219A |
| QXG-65219   | Peterbilt | 389   | 2006-2014 | TRW  | 4     | TAS65219RMAN | TAS652248 | TAS65219A |



# BUYER'S GUIDE | STEERING GEARS

## STERLING

| QXHD Part # | Make     | Model | Years     | Type | Lines | OEM          | Casting   | Reman    |
|-------------|----------|-------|-----------|------|-------|--------------|-----------|----------|
| QXG-60010   | Sterling | 8000  | 2006      | TRW  | 2     | 14-15702-000 | THP602295 | THP60010 |
| QXG-60010   | Sterling | 8000  | 2006      | TRW  | 2     | 14-17726-000 | THP602295 | THP60010 |
| QXG-60010   | Sterling | 8000  | 2006      | TRW  | 2     | 14-17727-000 | THP602295 | THP60010 |
| QXG-65004   | Sterling | 9000  | 2000-2002 | TRW  | 4     | 14-17712-000 | TAS652295 | TAS65004 |
| QXG-65004   | Sterling | 9000  | 2000-2002 | TRW  | 4     | 14-10334-000 | TAS652295 | TAS65004 |
| QXG-65004   | Sterling | 9000  | 2000-2002 | TRW  | 4     | 14-10334-001 | TAS652295 | TAS65004 |
| QXG-65004   | Sterling | 9000  | 2000-2002 | TRW  | 4     | 14-15664-000 | TAS652295 | TAS65004 |
| QXG-60010   | Sterling | 9000  | 2006-2010 | TRW  | 2     | 14-15701-000 | THP602295 | THP60010 |
| QXG-60010   | Sterling | 9000  | 2006-2010 | TRW  | 2     | 14-15702-000 | THP602295 | THP60010 |
| QXG-60010   | Sterling | 9000  | 2006-2010 | TRW  | 2     | 14-17726-000 | THP602295 | THP60010 |
| QXG-60010   | Sterling | 9000  | 2006-2010 | TRW  | 2     | 14-17727-000 | THP602295 | THP60010 |

## VOLVO

| QXHD Part # | Make  | Model | Years     | Type | Lines | OEM Part # | Casting Part # | Reman Part # |
|-------------|-------|-------|-----------|------|-------|------------|----------------|--------------|
| QXG-60004   | Volvo | VN    | 2006-2014 | TRW  | 2     | 20447236   | THP602296      | THP60004     |
| QXG-60004   | Volvo | VN    | 2006-2014 | TRW  | 2     | 5026865    | THP602296      | THP60004     |

**NO CORE | NO HASSLE | NO PROBLEM**



## GIVE YOUR CUSTOMERS THE OPTIONS THEY DESERVE

We're dedicated to service, plain and simple. Let us help you serve your customers in a whole new way by adding a brand new, coreless option to your hydraulic steering category.

## EXPERIENCE THE DIFFERENCE

A true **NO HASSLE WARRANTY** means that if you tell us there's a problem, we say okay.

So take care of your customer... we've got you covered.



**With QX Heavy  
Duty on your side,  
you can put out  
those customer  
fires with  
confidence!**



# INSTALLATION INSTRUCTIONS

## STEERING GEARS

This QXHD Steering Gear has been manufactured to OE specifications, and tested for proper orientation prior to shipment.

To protect your investment and comply with your warranty, it is important that these instructions be closely followed.

### AFTER REMOVAL OF EXISTING STEERING GEAR, AND BEFORE YOU BEGIN NEW INSTALLATION,

the oil and oil filter in the power steering system should be changed. All lines and fittings should be flushed of any possible contaminants. Flushing instructions are included on the next page. Use fluid recommended by manufacturer.

If the power steering pump has been replaced, make sure the pressure and flow are working to spec before proceeding.

Transfer hose fittings from the old gear to the new one. We recommend you replace the o-rings at this time.

### OK, LET'S GET STARTED ...

1. Verify that the axle stops are in place, and are set to the manufacturer's wheelcut or clearance specifications.
2. Bolt the new steering gear to frame and torque to the manufacturer's specifications.
3. Connect the reservoir return line to the steering gear return port.
4. Connect the hydraulic line from the pump to the steering gear pressure port. For M-Series gears, the inlet and outlet ports are staggered. The inlet port is always closest to the output shaft.

### TAKE A BREAK ☺ , AND THEN MAKE SURE ALL HOSES ARE ROUTED WITH NO KINKS IN THE LINE

5. Connect the steering column coupler to the input shaft on the new steering gear
6. Torque the pinch bolt to the vehicle manufacturer's specification.
7. Install the pitman arm on the new steering gear's output shaft and align the timing marks per vehicle manufacturer's recommendation. **MAKE SURE THE WHEELS ARE IN THE STRAIGHT AHEAD POSITION, AND WHEN LINING UP THE PITMAN ARM WITH THE TIMING MARK ON THE OUTPUT SHAFT, DO NOT TURN THE WHEEL LEFT OR RIGHT MORE THAN 1 TURN**
8. Connect the drag link to the pitman arm.
9. Fill the power steering system with the approved fluid.
10. Perform steering system air bleeding procedure. **DO NOT ALLOW THE RESERVOIR TO RUN DRY.**

### SETTING THE POPPETS ON A NEW STEERING GEAR

1. Make sure the axle stop bolts are set to vehicle manufacturer's wheelcut or clearance specifications.
2. **RAISE THE FRONT END SO THE STEER AXLE TIRES ARE OFF THE GROUND.**
3. Start the engine and let it idle.
4. Steer the vehicle in one direction until you hit the axle stop. **PULL HARD** as these poppets are tight! Unlike remanufactured gears, this is a brand new steering gear with no internal wear.
5. Repeat #4 in the opposite direction.
6. Turn the vehicle off.

**LOWER THE VEHICLE, REMOVE THE JACK, AND KEEP ON TRUCKIN' ☺**

# INSTALLATION INSTRUCTIONS

## STEERING GEARS



### MODELS WITH BLEEDER SCREW

1. Start the engine.
2. Make sure the wheels are in the straight ahead position.
3. Locate the bleeder screw, if equipped.
4. Loosen the bleeder screw and let the fluid bleed out until there are no visible air bubbles in the fluid.
5. Re-tighten the bleeder screw, and turn the wheels all the way to the right.
6. Loosen the bleeder screw again and let the fluid bleed out until there are no visible air bubbles in the fluid.
7. Re-tighten the bleeder screw, and turn the wheels all the way to the left.
8. Repeat steps 2-7 until all air is purged from the system.

**NOTE: DO NOT TURN THE STEERING WHEEL WHILE THE BLEEDER SCREW IS LOOSE, AS THIS WILL CREATE MORE AIR BUBBLES.**

### MODELS WITHOUT BLEEDER SCREW

1. Do not start the engine.
2. Lift the front tires off of the ground.
3. Remove the reservoir cap, and turn the steering wheel both directions until you hit the axle stops. There should be a good amount of fluid in the reservoir.
4. Keep turning the steering wheel all the way right, and all the way left until there are no visible air bubbles coming out of the fluid in the reservoir.

### FLUSHING THE SYSTEM

1. Plug the return line going TO the pump
2. **DO NOT** connect the pressure line to the gear. Place it in a suitable container.
3. Fill and maintain the reservoir level with new fluid.
4. Without starting the engine, crank the engine for several seconds until the fluid runs clean from the return hose.
5. Reconnect the hoses to the steering gear.



## INSTALLATION INSTRUCTIONS POWER STEERING PUMPS

**PRIOR TO PUMP INSTALLATION, CHECK ALL OF THE HOSES AND FITTINGS, AND REPLACE ALL O-RINGS.**

**WE ALSO RECOMMEND YOU **PRIME THE PUMP** BEFORE INSTALLATION.**

***TO PRIME THE PUMP, FILL IT WITH FLUID AND SPIN THE SHAFT WITH YOUR FINGER.***

****BONUS!** THIS GIVES YOU A CHANCE TO VERIFY YOUR ROTATION , WHICH HELPS TO ENSURE YOU HAVE THE CORRECT REPLACEMENT PUMP.**

1. INSTALL THE NEW POWER STEERING PUMP
2. FLUSH THE SYSTEM
3. INSTALL THE NEW FILTER
4. LIFT THE FRONT AXLE OFF OF THE GROUND
5. START THE ENGINE AND LET IT IDLE
6. CHECK THE FLUID LEVELS
7. STEER ALL THE WAY TO THE LEFT, AND ALL THE WAY TO THE RIGHT
8. REPEAT THIS SEVERAL TIMES
9. RE-CHECK THE FLUID LEVEL



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### **NEED MORE HELP ?**

**Give our TECH GUY a try!**

**Call (888) 803-QXHD and press **1** to reach him!**

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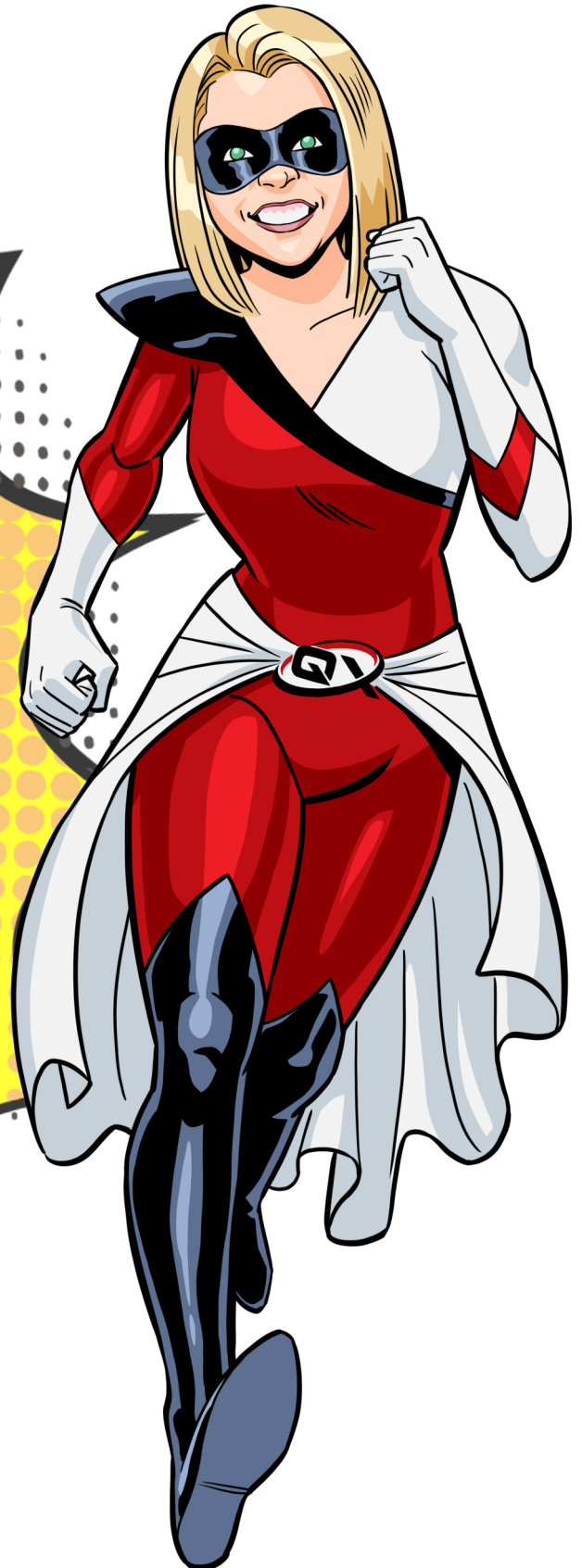


**DID YOU  
KNOW?**

**We can stop 95% of  
warranties if you call us  
before the part is  
removed.**

**SO CALL US!**

**LET US TAKE A  
RUN AT IT!**





## INTERCHANGE GUIDE

| OE/TAG# | QXHD #     | STYLE    |
|---------|------------|----------|
| 143     | QX-137-6   | SAGINAW  |
| 143A    | QX-137-4   | SAGINAW  |
| 8317    | QX-137-6   | SAGINAW  |
| 17211   | QX-769     | LUK      |
| 81317   | QX-137-4   | SAGINAW  |
| 89898   | QXG-65004  | TRW TAS  |
| 90004   | QX-137-4   | SAGINAW  |
| 90005   | QX-137-6   | SAGINAW  |
| 93752   | QXG-100PCL | SHEPPARD |
| 105317  | QX-396     | LUK      |
| 451424  | QX-436D    | LUK      |
| 515790  | QX-336E    | LUK      |
| 515798  | QX-336-1   | LUK      |
| 516156  | QX-336-1   | LUK      |
| 660401  | QX-396     | LUK      |
| 863151  | QX-336E    | LUK      |
| 1002303 | QX-669-1   | TRW PS   |
| 1002379 | QXG-65024  | TRW TAS  |
| 1002428 | QXG-65024  | TRW TAS  |
| 1002446 | QX-539-8   | TRW PS   |
| 1002458 | QXG-65024  | TRW TAS  |
| 1002518 | QX-539     | TRW PS   |
| 1002519 | QX-539-8   | TRW PS   |
| 1002794 | QX-537-4   | TRW PS   |
| 2105333 | QX-396     | LUK      |
| 2105345 | QX-336C    | LUK      |
| 2105355 | QX-336E    | LUK      |
| 2105795 | QX-436     | LUK      |
| 2106017 | QX-436     | LUK      |
| 2106061 | QX-436     | LUK      |
| 2106072 | QX-484     | LUK      |
| 2106388 | QX-615     | LUK      |
| 2106438 | QX-336A1   | LUK      |
| 2106544 | QX-615     | LUK      |
| 2106722 | QX-336E    | LUK      |
| 2106723 | QX-336E    | LUK      |
| 2106749 | QX-336A1   | LUK      |
| 2106750 | QX-336E    | LUK      |
| 2106751 | QX-336-1   | LUK      |
| 2106773 | QX-436     | LUK      |
| 2106835 | QX-336-5   | LUK      |
| 2107262 | QX-436A    | LUK      |
| 2107467 | QX-336-2   | LUK      |
| 2107544 | QX-436     | LUK      |
| 2107547 | QX-336A    | LUK      |
| 2107550 | QX-336-2   | LUK      |
| 2107554 | QX-336C    | LUK      |
| 2107611 | QX-436     | LUK      |

| OE/TAG#  | QXHD #    | STYLE   |
|----------|-----------|---------|
| 2107922  | QX-336C   | LUK     |
| 2108204  | QX-277-9  | LUK     |
| 2108214  | QX-336A5  | LUK     |
| 2108216  | QX-336-4  | LUK     |
| 2108320  | QX-336D   | LUK     |
| 2108321  | QX-336G   | LUK     |
| 2108322  | QX-336-2  | LUK     |
| 2108582  | QX-336-1  | LUK     |
| 2108653  | QX-336B   | LUK     |
| 2108758  | QX-436    | LUK     |
| 2108762  | QX-336-5  | LUK     |
| 2108830  | QX-484    | LUK     |
| 2110293  | QX-436    | LUK     |
| 2110433  | QX-615A   | LUK     |
| 2113809  | QX-2721   | LUK     |
| 2114080  | QX-741A   | LUK     |
| 2114266  | QX-741    | LUK     |
| 2114933  | QX-484    | LUK     |
| 2115521  | QX-769B   | LUK     |
| 2115523  | QX-769B   | LUK     |
| 2115909  | QX-769A   | LUK     |
| 2115912  | QX-769    | LUK     |
| 3082374  | QX-336A3  | LUK     |
| 3187858  | QX-336D   | LUK     |
| 3187859  | QX-336G   | LUK     |
| 3187861  | QX-336-2  | LUK     |
| 3936348  | QX-336E   | LUK     |
| 3936349  | QX-336-1  | LUK     |
| 5863573  | QX-415-1  | VICKERS |
| 7827655  | QX-137-4  | SAGINAW |
| 7831764  | QX-137-6  | SAGINAW |
| 7835350  | QX-137-6  | SAGINAW |
| 7835872  | QX-137-6  | SAGINAW |
| 7835946  | QX-137-4  | SAGINAW |
| 7837049  | QX-137-6  | SAGINAW |
| 7840089  | QX-137-4  | SAGINAW |
| 7840099  | QX-137-6  | SAGINAW |
| 7840123  | QX-137-4  | SAGINAW |
| 7840124  | QX-137-6  | SAGINAW |
| 7847871  | QX-137-4  | SAGINAW |
| 8081011  | QX-336-2  | LUK     |
| 8086541  | QX-336-4  | LUK     |
| 8106006  | QX-436C   | LUK     |
| 11098001 | QX-436D   | LUK     |
| 15023753 | QX-370-4  | ZF      |
| 15799359 | QX-370-4  | ZF      |
| 20770313 | QX-2020-5 | ZF      |
| 21017829 | QX-2020-5 | ZF      |

# INTERCHANGE GUIDE



| OE/TAG#   | QXHD #    | STYLE   |
|-----------|-----------|---------|
| 21065440  | QX-615    | LUK     |
| 21065442  | QX-615    | LUK     |
| 21065443  | QX-615    | LUK     |
| 21065447  | QX-615    | LUK     |
| 21065448  | QX-615    | LUK     |
| 21187423  | QX-2020-5 | ZF      |
| 21187442  | QX-2020-5 | ZF      |
| 21307197  | QX-2020-5 | ZF      |
| 21370327  | QX-539-8  | TRW PS  |
| 21745602  | QX-2020B  | ZF      |
| 21745603  | QX-2020-5 | ZF      |
| 21745604  | QX-2020B  | ZF      |
| 21745605  | QX-2020B  | ZF      |
| 21745616  | QX-2020B  | ZF      |
| 21939948  | QX-2020B  | ZF      |
| 23513015  | QX-336-2  | LUK     |
| 24486663  | QX-2020B  | ZF      |
| 25164755  | QX-381-6  | VICKERS |
| 85112481  | QX-2020-5 | ZF      |
| 85118917  | QX-2020B  | ZF      |
| 140053000 | QXG-65004 | TRW TAS |
| 142073910 | QX-375-13 | TRW EV  |
| 384013253 | QX-336-1  | LUK     |
| 384013256 | QX-396    | LUK     |
| 384013261 | QX-336-1  | LUK     |
| 384013262 | QX-336A3  | LUK     |
| 384013458 | QX-396    | LUK     |
| 542006510 | QX-336E   | LUK     |
| 542011710 | QX-336A3  | LUK     |
| 542012310 | QX-336E   | LUK     |
| 542013010 | QX-336    | LUK     |
| 542013210 | QX-336    | LUK     |
| 542014110 | QX-336G   | LUK     |
| 542014610 | QX-336E   | LUK     |
| 542014710 | QX-336    | LUK     |
| 542016710 | QX-336A3  | LUK     |
| 542016910 | QX-336A3  | LUK     |
| 542017210 | QX-336-1  | LUK     |
| 542017610 | QX-336-2  | LUK     |
| 542018810 | QX-336A5  | LUK     |
| 542019010 | QX-336C   | LUK     |
| 542019110 | QX-336C   | LUK     |
| 542019510 | QX-336G   | LUK     |
| 542019710 | QX-336-5  | LUK     |
| 542021210 | QX-336D   | LUK     |
| 542022510 | QX-336-5  | LUK     |
| 542023910 | QX-336A   | LUK     |
| 542024810 | QX-336A1  | LUK     |

| OE/TAG#    | QXHD #     | STYLE   |
|------------|------------|---------|
| 542025710  | QX-336C    | LUK     |
| 542025910  | QX-336-2   | LUK     |
| 542026010  | QX-336-4   | LUK     |
| 542026710  | QX-336B    | LUK     |
| 542026910  | QX-336B1   | LUK     |
| 542027210  | QX-563-1   | LUK     |
| 542027310  | QX-396     | LUK     |
| 542027410  | QX-396     | LUK     |
| 542029810  | QX-436D    | LUK     |
| 542030910  | QX-436     | LUK     |
| 542031410  | QX-436D    | LUK     |
| 542031610  | QX-436D    | LUK     |
| 542032010  | QX-436     | LUK     |
| 542033010  | QX-436D    | LUK     |
| 542033410  | QX-436A    | LUK     |
| 542035910  | QX-277-9   | LUK     |
| 542038010  | QX-436D    | LUK     |
| 542041110  | QX-436     | LUK     |
| 1410334000 | QXG-65004  | TRW TAS |
| 1412358000 | QX-436D    | LUK     |
| 1412384005 | QX-539-2   | TRW PS  |
| 1412464003 | QX-336A1   | LUK     |
| 1412485000 | QX-539-2   | TRW PS  |
| 1412528000 | QX-539B-2  | TRW PS  |
| 1412608001 | QX-336-5   | LUK     |
| 1412608003 | QX-336-5   | LUK     |
| 1412657000 | QX-436D    | LUK     |
| 1412657001 | QX-436D    | LUK     |
| 1412657002 | QX-436D    | LUK     |
| 1412657003 | QX-436D    | LUK     |
| 1412657004 | QX-436     | LUK     |
| 1412681007 | QX-573-2   | TRW PS  |
| 1413050000 | QX-528-1   | TRW PS  |
| 1413086000 | QX-528     | TRW PS  |
| 1413397001 | QX-718     | TRW PS  |
| 1413413000 | QX-436D    | LUK     |
| 1413451000 | QXG-65155  | TRW TAS |
| 1413451001 | QXG-65155  | TRW TAS |
| 1413452000 | QXG-65155  | TRW TAS |
| 1413452001 | QXG-65155  | TRW TAS |
| 1413524002 | QX-539-5   | TRW PS  |
| 1413524003 | QX-539-5   | TRW PS  |
| 1413835000 | QX-277-9   | LUK     |
| 1414323000 | QX-375-2   | TRW EV  |
| 1414323001 | QX-375-13  | TRW EV  |
| 1414323002 | QX-375-15  | TRW EV  |
| 1414323004 | QX-375-13A | TRW EV  |
| 1414323005 | QX-375-16  | TRW EV  |



## INTERCHANGE GUIDE

| OE/TAG#    | QXHD #     | STYLE   |
|------------|------------|---------|
| 1414375000 | QX-375     | TRW EV  |
| 1414375001 | QX-375-5   | TRW EV  |
| 1414375002 | QX-375-7   | TRW EV  |
| 1414375003 | QX-375-1   | TRW EV  |
| 1414375004 | QX-375-4   | TRW EV  |
| 1414375010 | QX-375-10  | TRW EV  |
| 1414375011 | QX-375     | TRW EV  |
| 1414376000 | QX-375     | TRW EV  |
| 1415040000 | QXG-60006  | TRW THP |
| 1415332000 | QXG-85142  | TRW TAS |
| 1415332001 | QXG-85142  | TRW TAS |
| 1415701000 | QXG-60010  | TRW THP |
| 1415702000 | QXG-60010  | TRW THP |
| 1417712000 | QXG-65004  | TRW TAS |
| 1417726000 | QXG-60010  | TRW THP |
| 1417727000 | QXG-60010  | TRW THP |
| 1419117000 | QXG-85142  | TRW TAS |
| 1419126000 | QX-375-2   | TRW EV  |
| 1419126001 | QX-375-13  | TRW EV  |
| 1419126002 | QX-375-15  | TRW EV  |
| 1419127000 | QX-375     | TRW EV  |
| 1419127001 | QX-375-5   | TRW EV  |
| 1419127002 | QX-375-7   | TRW EV  |
| 1419127003 | QX-375-4   | TRW EV  |
| 1419127004 | QX-375-6   | TRW EV  |
| 1419269000 | QX-539-2   | TRW PS  |
| 1419270001 | QX-718     | TRW PS  |
| 1419372000 | QXG-85142  | TRW TAS |
| 1419401000 | QX-375-2   | TRW EV  |
| 1419401002 | QX-375-15  | TRW EV  |
| 1419401008 | QX-375-6C  | TRW EV  |
| 1419401010 | QX-375-4H  | TRW EV  |
| 1419708000 | QXG-60010  | TRW THP |
| 1420352000 | QX-539     | TRW PS  |
| 1420358000 | QX-375-2   | TRW EV  |
| 1420358001 | QX-375-13  | TRW EV  |
| 1420358002 | QX-375-15  | TRW EV  |
| 1420358003 | QX-375-3   | TRW EV  |
| 1420358004 | QX-375-13A | TRW EV  |
| 1420358008 | QX-375-6C  | TRW EV  |
| 1420358010 | QX-375-4H  | TRW EV  |
| 1420358011 | QX-375-2   | TRW EV  |
| 1420358016 | QX-375-13  | TRW EV  |
| 1420359000 | QX-375     | TRW EV  |
| 1420359003 | QX-375-4   | TRW EV  |
| 1420739000 | QX-375-2   | TRW EV  |
| 1420739001 | QX-375-13  | TRW EV  |
| 1420739003 | QX-375-6C  | TRW EV  |

| OE/TAG#     | QXHD #     | STYLE    |
|-------------|------------|----------|
| 1420741000  | QX-375     | TRW EV   |
| 1420745000  | QX-539     | TRW PS   |
| 5420130100  | QX-336     | LUK      |
| 5420169100  | QX-336A3   | LUK      |
| 5420188100  | QX-336A5   | LUK      |
| 5420191100  | QX-336C    | LUK      |
| 5420195100  | QX-336G    | LUK      |
| 5420212100  | QX-336D    | LUK      |
| 5420239100  | QX-336A    | LUK      |
| 5420248100  | QX-336A1   | LUK      |
| 5420260100  | QX-336-4   | LUK      |
| 5420267100  | QX-336B    | LUK      |
| 5420272100  | QX-563-1   | LUK      |
| 5420273100  | QX-396     | LUK      |
| 5420309100  | QX-436     | LUK      |
| 5420334100  | QX-436A    | LUK      |
| 5422105333  | QX-396     | LUK      |
| 5422106544  | QX-615     | LUK      |
| 5422108830  | QX-484     | LUK      |
| 7018988153  | QX-2020B   | ZF       |
| 7655955113  | QX-2020B   | ZF       |
| 7674955343  | QX-257-1   | ZF       |
| 7674955344  | QX-257-2   | ZF       |
| 7677955179  | QX-378-1   | ZF       |
| 7677955180  | QX-378     | ZF       |
| 7685955301  | QX-370-4   | ZF       |
| 51412106544 | QX-615     | LUK      |
| 51412108830 | QX-484     | LUK      |
| 1488787C91  | QX-137-6   | SAGINAW  |
| 1647878C91  | QX-731-3   | VICKERS  |
| 1657435C91  | QXG-100PAH | SHEPPARD |
| 1659881C91  | QXG-100PCL | SHEPPARD |
| 1660908C91  | QX-731-2   | VICKERS  |
| 1663204C91  | QX-336     | LUK      |
| 1667497C91  | QX-336A1   | LUK      |
| 1681047C91  | QX-336A    | LUK      |
| 1682526C91  | QX-336A1   | LUK      |
| 1682625C91  | QX-336-2   | LUK      |
| 1682626C91  | QX-336A1   | LUK      |
| 1684621C91  | QX-336C    | LUK      |
| 1686649C91  | QX-396     | LUK      |
| 1686653C91  | QX-336A1   | LUK      |
| 181618LES   | QX-375-13  | TRW EV   |
| 1885524PE   | QX-783-1   | TANDEM   |
| 2005337C91  | QX-436D    | LUK      |
| 2008180C91  | QX-615     | LUK      |
| 2008180C92  | QX-615     | LUK      |
| 2008180C93  | QX-615     | LUK      |

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| OE/TAG#      | QXHD #     | STYLE    |
|--------------|------------|----------|
| 2010412C91   | QX-484     | LUK      |
| 2010412C92   | QX-484     | LUK      |
| 2020263C91   | QXG-100PCL | SHEPPARD |
| 2106544S     | QX-615     | LUK      |
| 221615LES    | QX-375     | TRW EV   |
| 221618RES    | QX-375-6C  | TRW EV   |
| 226H050040   | QX-336C    | LUK      |
| 226H050080   | QX-336-1   | LUK      |
| 2502008C91   | QXG-100PAH | SHEPPARD |
| 251615LESERT | QX-539     | TRW PS   |
| 251615LESRT  | QX-539     | TRW PS   |
| 3406207010A  | QX-18      | ZF       |
| 3406207010A  | QX-18      | ZF       |
| 3501032C91   | QXG-100PHE | SHEPPARD |
| 3504849C91   | QX-336A1   | LUK      |
| 3504850C91   | QX-336A1   | LUK      |
| 3514596C91   | QX-436D    | LUK      |
| 3519043C91   | QXG-100PHE | SHEPPARD |
| 3533789C92   | QXG-100PMT | SHEPPARD |
| 3535274C91   | QX-436C    | LUK      |
| 3535275C91   | QX-615A    | LUK      |
| 3538858C91   | QX-2097-1  | TRW PS   |
| 3538860C91   | QX-336B    | LUK      |
| 3538860C92   | QX-336B    | LUK      |
| 3538958C91   | QX-2097-1  | TRW PS   |
| 3542026C91   | QX-336C    | LUK      |
| 3542059C91   | QX-436D    | LUK      |
| 3554373C91   | QXG-100PMT | SHEPPARD |
| 3556416C91   | QX-2097A   | TRW PS   |
| 3558088C91   | QXG-100PHE | SHEPPARD |
| 3558090C91   | QXG-80SAW  | SHEPPARD |
| 3589106C91   | QXG-100PCL | SHEPPARD |
| 3623641C94   | QX-730     | LUK      |
| 3624643C91   | QX-2721    | LUK      |
| 3710645F91   | QX-769     | LUK      |
| 3807510C91   | QX-741A    | LUK      |
| 3820856C91   | QX-741     | LUK      |
| 3825468C91   | QX-769B    | LUK      |
| 3836058C91   | QX-769     | LUK      |
| 3836828C91   | QX-769A    | LUK      |
| 38QC4140M2   | QX-436     | LUK      |
| 38QC4141P11  | QX-573-6   | TRW PS   |
| 38QC4142P3   | QX-375-7   | TRW EV   |
| 4176240C91   | QX-436D    | LUK      |
| 4176246C91   | QX-436A    | LUK      |
| 4192179C91   | QX-769B    | LUK      |
| 4198340C91   | QX-484     | LUK      |
| 422479C91    | QX-381-1   | VICKERS  |

| OE/TAG#      | QXHD #     | STYLE    |
|--------------|------------|----------|
| 451428E      | QX-731-2   | VICKERS  |
| 465TRWSG01   | QXG-65024  | TRW TAS  |
| 465VIC06     | QX-415     | VICKERS  |
| 465HYT01     | QX-730     | LUK      |
| 465HYT02     | QX-741     | LUK      |
| 465HYT03     | QX-769     | LUK      |
| 465HYT05     | QX-741A    | LUK      |
| 465HYT06     | QX-769A    | LUK      |
| 465HYT07     | QX-769B    | LUK      |
| 465LUK01     | QX-336A1   | LUK      |
| 465LUK02     | QX-336-2   | LUK      |
| 465LUK04     | QX-396     | LUK      |
| 465LUK05     | QX-436D    | LUK      |
| 465LUK07     | QX-484     | LUK      |
| 465LUK09     | QX-436C    | LUK      |
| 465LUK10     | QX-436D    | LUK      |
| 465LUK11     | QX-436A    | LUK      |
| 465LUK12     | QX-615     | LUK      |
| 465LUK14     | QX-615A    | LUK      |
| 465SAG01     | QX-137-6   | SAGINAW  |
| 465TRW01     | QX-539     | TRW PS   |
| 465TRW02     | QX-539     | TRW PS   |
| 465TRW03     | QX-375     | TRW EV   |
| 465TRW05     | QX-375-2   | TRW EV   |
| 465TRW06     | QX-573-4   | TRW PS   |
| 465TRW12     | QX-539-8   | TRW PS   |
| 465TRW15     | QX-669-1   | TRW PS   |
| 465TRW17     | QX-375-7   | TRW EV   |
| 465TRW18     | QX-375-6   | TRW EV   |
| 465TRW20     | QX-537     | TRW PS   |
| 465TRW23     | QX-375-13  | TRW EV   |
| 465TRW24     | QX-2721    | LUK      |
| 465TRW26     | QX-375-15  | TRW EV   |
| 465TRW29     | QX-2097-1  | TRW PS   |
| 465TRW30     | QX-539-13  | TRW PS   |
| 465TRW34     | QX-539B-2  | TRW PS   |
| 465TRW36     | QX-375-5   | TRW EV   |
| 465TRW39     | QX-2097A   | TRW PS   |
| 465TRWSG01   | QXG-65024  | TRW TAS  |
| 465TRWSG03   | QXG-60010  | TRW THP  |
| 465TRWSG04   | QXG-65004  | TRW TAS  |
| 465VIC06     | QX-415     | VICKERS  |
| 465ZF02      | QX-257-1   | ZF       |
| 465ZF03      | QX-257-2   | ZF       |
| 465ZF04      | QX-2020-5  | ZF       |
| 488787C91    | QX-137-6   | SAGINAW  |
| 5141M100PHE1 | QXG-100PHE | SHEPPARD |
| 5141M100PHE3 | QXG-100PHE | SHEPPARD |





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| OE/TAG#             | QXHD #     | STYLE    |
|---------------------|------------|----------|
| 5141PEV251615L101   | QX-375-4   | TRW EV   |
| 5141PEV251615R101   | QX-375-6   | TRW EV   |
| 5141PS221615L116    | QX-583     | TRW PS   |
| 5141PS221615R103    | QX-573-5   | TRW PS   |
| 5141PS221615R114    | QX-537-5   | TRW PS   |
| 5141PS251615L102    | QX-539-2   | TRW PS   |
| 5141PS252415L103    | QX-573-7   | TRW PS   |
| 5141TAS40042        | QXG-40042  | TRW TAS  |
| 5141TAS65004        | QXG-65004  | TRW TAS  |
| 5141TAS65024        | QXG-65024  | TRW TAS  |
| 5141TAS65079        | QXG-65079  | TRW TAS  |
| 5141TAS65090        | QXG-65090  | TRW TAS  |
| 5141TAS65155        | QXG-65155  | TRW TAS  |
| 5141TAS65219        | QXG-65219  | TRW TAS  |
| 5141THP60006        | QXG-60006  | TRW THP  |
| 5141THP60008        | QXG-60008  | TRW THP  |
| 5141THP60010        | QXG-60010  | TRW THP  |
| 5141V20F1P9P38C6G11 | QX-381-1   | VICKERS  |
| 5141V20F1P9P38C6GL  | QX-381-1   | VICKERS  |
| 5141XTAS65079       | QXG-65079  | TRW TAS  |
| 52106544AA          | QX-615     | LUK      |
| 52106544AB          | QX-615     | LUK      |
| 52106544AC          | QX-615     | LUK      |
| 535274C91           | QX-436C    | LUK      |
| 541508C91           | QX-731     | VICKERS  |
| 542019510N          | QX-336-5   | LUK      |
| 542027210           | QX-563-1   | LUK      |
| 5422108830          | QX-484     | LUK      |
| 66005RGT            | QXG-65024  | TRW TAS  |
| 6990TAS40042R       | QXG-40042  | TRW TAS  |
| 6990TAS65004R       | QXG-65004  | TRW TAS  |
| 6990TAS65155R       | QXG-65155  | TRW TAS  |
| 6990TAS65219R       | QXG-65219  | TRW TAS  |
| 6990THP60004R       | QXG-60004  | TRW THP  |
| 6990THP60006R       | QXG-60006  | TRW THP  |
| 6990THP60008R       | QXG-60008  | TRW THP  |
| 6990THP60010R       | QXG-60010  | TRW THP  |
| 8148M100PHE1R       | QXG-100PHE | SHEPPARD |
| 8148M100PHE3R       | QXG-100PHE | SHEPPARD |
| 8148ZRXM100PHE3     | QXG-100PHE | SHEPPARD |
| 881TAS40042         | QXG-40042  | TRW TAS  |
| ABM100PHE           | QXG-100PHE | SHEPPARD |
| ABPR465420065100    | QX-336E    | LUK      |
| ABPR465420169100    | QX-336A3   | LUK      |
| ABPR465420172100    | QX-336-1   | LUK      |
| ABPR465420191100    | QX-336C    | LUK      |
| ABPR465420225100    | QX-336-5   | LUK      |
| ABPR465420239100    | QX-336A    | LUK      |

| OE/TAG#                | QXHD #     | STYLE    |
|------------------------|------------|----------|
| ABPR465420248100       | QX-336A1   | LUK      |
| ABPR465420267100       | QX-336B    | LUK      |
| ABPR465420272100       | QX-563-1   | LUK      |
| ABPR465420309100       | QX-436     | LUK      |
| ABPR465420320100       | QX-436D    | LUK      |
| ABPR465420334100       | QX-436A    | LUK      |
| ABPR465420359100       | QX-277-9   | LUK      |
| ABPR46M100PHE1         | QXG-100PHE | SHEPPARD |
| ABPR46M100PHE3         | QXG-100PHE | SHEPPARD |
| ABPR46PEV181618L101    | QX-375-13  | TRW EV   |
| ABPR46PEV221615L101    | QX-375     | TRW EV   |
| ABPR46PEV251615L101    | QX-375-4   | TRW EV   |
| ABPR46PEV251615R101    | QX-375-6   | TRW EV   |
| ABPR46PS221615L103     | QX-573-4   | TRW PS   |
| ABPR46PS251615L102     | QX-539-2   | TRW PS   |
| ABPR46PS251615L113     | QX-573-3   | TRW PS   |
| ABPR46PS251615R102     | QX-539     | TRW PS   |
| ABPR46PS252415L103     | QX-573-7   | TRW PS   |
| ABPR46PS252415R102     | QX-539-6C  | TRW PS   |
| ABPR46PS282416R106     | QX-2097A   | TRW PS   |
| ABPR46PS282815R114     | QX-537     | TRW PS   |
| ABPR46PS322415R103     | QX-718     | TRW PS   |
| ABPR46PS362415R102     | QX-539-12  | TRW PS   |
| ABPR46PS362815L103     | QX-725     | TRW PS   |
| ABPR46PS362815L105     | QX-539-9B1 | TRW PS   |
| ABPR46PS362815L113     | QX-726     | TRW PS   |
| ABPR46TAS40042         | QXG-40042  | TRW TAS  |
| ABPR46TAS65004         | QXG-65004  | TRW TAS  |
| ABPR46TAS65024         | QXG-65024  | TRW TAS  |
| ABPR46TAS65079         | QXG-65079  | TRW TAS  |
| ABPR46TAS65090         | QXG-65090  | TRW TAS  |
| ABPR46TAS65155         | QXG-65155  | TRW TAS  |
| ABPR46TAS65219         | QXG-65219  | TRW TAS  |
| ABPR46TAS85142         | QXG-85142  | TRW TAS  |
| ABPR46THP60004         | QXG-60004  | TRW THP  |
| ABPR46THP60006         | QXG-60006  | TRW THP  |
| ABPR46THP60008         | QXG-60008  | TRW THP  |
| ABPR46THP60010         | QXG-60010  | TRW THP  |
| ABPR46V10F1P6P38C6G20  | QX-415     | VICKERS  |
| ABPR46V20F1P9P38C6G11  | QX-381-1   | VICKERS  |
| ABPR46V20F1P9P38C6G22  | QX-381-1   | VICKERS  |
| ABPR46V20F1P9P38C6GL   | QX-381-1   | VICKERS  |
| ABPR46V20F1P9P38C6H22  | QX-381     | VICKERS  |
| ABPR46V20F1P9P38C6H22L | QX-381     | VICKERS  |
| ABPR46M100PHE1         | QXG-100PHE | SHEPPARD |
| ABPR46M100PHE3         | QXG-100PHE | SHEPPARD |
| ABPR46TAS40042         | QXG-40042  | TRW TAS  |
| ABPR46TAS65004         | QXG-65004  | TRW TAS  |



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| OE/TAG#        | QXHD #     | STYLE    |
|----------------|------------|----------|
| ABPR46TAS65024 | QXG-65024  | TRW TAS  |
| ABPR46TAS65079 | QXG-65079  | TRW TAS  |
| ABPR46TAS65090 | QXG-65090  | TRW TAS  |
| ABPR46TAS65155 | QXG-65155  | TRW TAS  |
| ABPR46TAS65219 | QXG-65219  | TRW TAS  |
| ABPR46TAS85142 | QXG-85142  | TRW TAS  |
| ABPR46THP60004 | QXG-60004  | TRW THP  |
| ABPR46THP60006 | QXG-60006  | TRW THP  |
| ABPR46THP60008 | QXG-60008  | TRW THP  |
| ABPR46THP60010 | QXG-60010  | TRW THP  |
| ABTAS40042     | QXG-40042  | TRW TAS  |
| ABTAS65024     | QXG-65024  | TRW TAS  |
| ABTAS65079     | QXG-65079  | TRW TAS  |
| ABTAS65155     | QXG-65155  | TRW TAS  |
| ABTAS65219     | QXG-65219  | TRW TAS  |
| ABTHP60004     | QXG-60004  | TRW THP  |
| AM105333       | QX-396     | LUK      |
| AM106544       | QX-615     | LUK      |
| AM106544N      | QX-615     | LUK      |
| AM107262       | QX-436A    | LUK      |
| AM107546       | QX-336     | LUK      |
| AM107547       | QX-336A    | LUK      |
| AM108204       | QX-277-9   | LUK      |
| AM108320       | QX-336D    | LUK      |
| AM108653       | QX-336B    | LUK      |
| AM108830       | QX-484     | LUK      |
| AM110433       | QX-615A    | LUK      |
| AOEV181615L101 | QX-375-5   | TRW EV   |
| AOEV181615R101 | QX-375-7   | TRW EV   |
| AOEV181618L101 | QX-375-13  | TRW EV   |
| AOEV181618R101 | QX-375-15  | TRW EV   |
| AOEV221615L101 | QX-375     | TRW EV   |
| AOEV221615R101 | QX-375-1   | TRW EV   |
| AOEV221618L101 | QX-375-2   | TRW EV   |
| AOEV221618R101 | QX-375-3   | TRW EV   |
| AOEV222418R101 | QX-375-16  | TRW EV   |
| AOEV251615L101 | QX-375-4   | TRW EV   |
| AOEV251615R101 | QX-375-6   | TRW EV   |
| AOEV251618L101 | QX-375-13A | TRW EV   |
| AOM100PCL      | QXG-100PCL | SHEPPARD |
| AOM100PHE      | QXG-100PHE | SHEPPARD |
| AOPS181415R102 | QX-539B-2  | TRW PS   |
| AOPS221615L103 | QX-573-4   | TRW PS   |
| AOPS221615L116 | QX-583     | TRW PS   |
| AOPS221615R102 | QX-539-13  | TRW PS   |
| AOPS251615L102 | QX-539-2   | TRW PS   |
| AOPS251615L105 | QX-539-8   | TRW PS   |
| AOPS322418R103 | QX-718-2   | TRW PS   |

| OE/TAG#         | QXHD #     | STYLE    |
|-----------------|------------|----------|
| AOPS362415L111  | QX-850-4   | TRW PS   |
| AOPS362815R102N | QX-669-1   | TRW PS   |
| AOTAS65004      | QXG-65004  | TRW TAS  |
| AOTAS65024      | QXG-65024  | TRW TAS  |
| AOTAS65079X     | QXG-65079  | TRW TAS  |
| AOTAS65090X     | QXG-65090  | TRW TAS  |
| AOTAS65155      | QXG-65155  | TRW TAS  |
| AOTAS65155X     | QXG-65155  | TRW TAS  |
| AOTAS65219      | QXG-65219  | TRW TAS  |
| AOTAS85142R     | QXG-85142  | TRW TAS  |
| AOTHP60004      | QXG-60004  | TRW THP  |
| AOTHP60006      | QXG-60006  | TRW THP  |
| AOTHP60008      | QXG-60008  | TRW THP  |
| AOTHP60010      | QXG-60010  | TRW THP  |
| AOV10F1P6P38C6G | QX-415     | VICKERS  |
| AOV20F1P9P38C6G | QX-381-1   | VICKERS  |
| AOZF7677955179R | QX-378-1   | ZF       |
| BF3406Z07010A   | QX-18      | ZF       |
| BF5420130100    | QX-336     | LUK      |
| BF5420172100    | QX-336-1   | LUK      |
| BF5420176100    | QX-336-2   | LUK      |
| BF5420239100    | QX-336A    | LUK      |
| BF5420248100    | QX-336A1   | LUK      |
| BF5420267100    | QX-336B    | LUK      |
| BF5420273100    | QX-396     | LUK      |
| BF5420320100    | QX-436D    | LUK      |
| BXM100PHE       | QXG-100PHE | SHEPPARD |
| BXTAS65079      | QXG-65079  | TRW TAS  |
| BXTAS65090      | QXG-65090  | TRW TAS  |
| BXTAS65155      | QXG-65155  | TRW TAS  |
| BXTAS65219      | QXG-65219  | TRW TAS  |
| BXTAS85142      | QXG-85142  | TRW TAS  |
| BXTHP60004      | QXG-60004  | TRW THP  |
| BXTHP60006      | QXG-60006  | TRW THP  |
| BXTHP60008      | QXG-60008  | TRW THP  |
| BXTHP60010      | QXG-60010  | TRW THP  |
| BXM100PHE       | QXG-100PHE | SHEPPARD |
| BXTAS65079      | QXG-65079  | TRW TAS  |
| BXTAS65090      | QXG-65090  | TRW TAS  |
| BXTAS65155      | QXG-65155  | TRW TAS  |
| BXTAS65219      | QXG-65219  | TRW TAS  |
| BXTAS85142      | QXG-85142  | TRW TAS  |
| BXTHP60004      | QXG-60004  | TRW THP  |
| BXTHP60006      | QXG-60006  | TRW THP  |
| BXTHP60008      | QXG-60008  | TRW THP  |
| BXTHP60010      | QXG-60010  | TRW THP  |
| CRXM100PHE      | QXG-100PHE | SHEPPARD |
| EPSSHM100PCLX   | QXG-100PCL | SHEPPARD |

| OE/TAG#          | QXHD #    | STYLE   |
|------------------|-----------|---------|
| EPSTAS65004X     | QXG-65004 | TRW TAS |
| EPSTAS65024X     | QXG-65024 | TRW TAS |
| EV171618L101     | QX-375-13 | TRW EV  |
| EV181615L101     | QX-375-5  | TRW EV  |
| EV181615L101     | QX-375-5  | TRW EV  |
| EV181615L10100AP | QX-375-5  | TRW EV  |
| EV181615L10101   | QX-375-5  | TRW EV  |
| EV181615L101WEL  | QX-375-5  | TRW EV  |
| EV181615R101     | QX-375-7  | TRW EV  |
| EV181615R101WEL  | QX-375-7  | TRW EV  |
| EV181616R101     | QX-375-10 | TRW EV  |
| EV181616R101WEL  | QX-375-10 | TRW EV  |
| EV181618L101     | QX-375-13 | TRW EV  |
| EV181618L10101   | QX-375-13 | TRW EV  |
| EV181618L10104   | QX-375-13 | TRW EV  |
| EV181618L101WEL  | QX-375-13 | TRW EV  |
| EV181618R101     | QX-375-15 | TRW EV  |
| EV181618R101CGL  | QX-375-15 | TRW EV  |
| EV181618R101WEL  | QX-375-15 | TRW EV  |
| EV201618L101     | QX-375-2  | TRW EV  |
| EV221609L101     | QX-375-12 | TRW EV  |
| EV221609L101WEL  | QX-375-12 | TRW EV  |
| EV221609R101     | QX-375-11 | TRW EV  |
| EV221609R10100   | QX-375-11 | TRW EV  |
| EV221609R101WEL  | QX-375-11 | TRW EV  |
| EV221613R101     | QX-375-1  | TRW EV  |
| EV221614L304     | QX-578    | TRW EV  |
| EV221614L30407   | QX-578    | TRW EV  |
| EV221615L101     | QX-375    | TRW EV  |
| EV221615L10100AP | QX-375    | TRW EV  |
| EV221615L10101   | QX-375    | TRW EV  |
| EV221615L10104   | QX-375    | TRW EV  |
| EV221615L101WEL  | QX-375    | TRW EV  |
| EV221615R101     | QX-375-1  | TRW EV  |
| EV221615R10100   | QX-375-1  | TRW EV  |
| EV221615R10100AP | QX-375-1  | TRW EV  |
| EV221615R10104   | QX-375-1  | TRW EV  |
| EV221615R101WEL  | QX-375-1  | TRW EV  |
| EV221618L101     | QX-375-2  | TRW EV  |
| EV221618R101     | QX-375-3  | TRW EV  |
| EV221619L101     | QX-375D   | TRW EV  |
| EV221619L101WEL  | QX-375D   | TRW EV  |
| EV222418R101     | QX-375-16 | TRW EV  |
| EV222418R10101   | QX-375-16 | TRW EV  |
| EV222418R101WEL  | QX-375-16 | TRW EV  |
| EV251615L101     | QX-375-4  | TRW EV  |
| EV251615L10101   | QX-375-4  | TRW EV  |
| EV251615L101WEL  | QX-375-4  | TRW EV  |

| OE/TAG#          | QXHD #     | STYLE  |
|------------------|------------|--------|
| EV251615R101     | QX-375-6   | TRW EV |
| EV251615R10100AP | QX-375-6   | TRW EV |
| EV251615R10101   | QX-375-6   | TRW EV |
| EV251615R101WEL  | QX-375-6   | TRW EV |
| EV251618L101     | QX-375-13A | TRW EV |
| EV251618L101WEL  | QX-375-13A | TRW EV |
| EV251618R101     | QX-375-6C  | TRW EV |
| EV252418L101     | QX-375-4H  | TRW EV |
| EV252418L101WEL  | QX-375-4H  | TRW EV |
| EV281615R101     | QX-375-14  | TRW EV |
| EV281615R101WEL  | QX-375-14  | TRW EV |
| EV282415R101     | QX-375-9   | TRW EV |
| EV282415R10104   | QX-375-9   | TRW EV |
| EV282415R10104S  | QX-375-9   | TRW EV |
| EV282415R101WEL  | QX-375-9   | TRW EV |
| F0HZ3A674A       | QX-257-1   | ZF     |
| F1HT3A674A       | QX-378     | ZF     |
| F1HT3A674AA      | QX-378     | ZF     |
| F1HT3A674E       | QX-378-1   | ZF     |
| F1HT3A674EA      | QX-378-1   | ZF     |
| F1HZ3A674D       | QX-378     | ZF     |
| F1HZ3A674H       | QX-378-1   | ZF     |
| F4HT3A674E       | QX-257-2   | ZF     |
| F4HT3A674EA      | QX-257-2   | ZF     |
| F4HT3A674G       | QX-257-1   | ZF     |
| F4HT3A674GA      | QX-257-1   | ZF     |
| F4HZ3A674D       | QX-257-1   | ZF     |
| F6HT3A574ZA      | QX-257-1   | ZF     |
| F6HT3A674VA      | QX-257-2   | ZF     |
| F6HT3A674ZA      | QX-257-1   | ZF     |
| F6HZ3A674VA      | QX-257-2   | ZF     |
| F6HZ3A674ZA      | QX-257-1   | ZF     |
| FAHT3A674E       | QX-257-2   | ZF     |
| FTR3406Z07010A   | QX-18      | ZF     |
| FTR5420065100    | QX-336E    | LUK    |
| FTR5420130100    | QX-336     | LUK    |
| FTR5420169100    | QX-336A3   | LUK    |
| FTR5420172100    | QX-336-1   | LUK    |
| FTR5420191100    | QX-336C    | LUK    |
| FTR5420225100    | QX-336-5   | LUK    |
| FTR5420239100    | QX-336A    | LUK    |
| FTR5420248100    | QX-336A1   | LUK    |
| FTR5420267100    | QX-336B    | LUK    |
| FTR5420272100    | QX-563-1   | LUK    |
| FTR5420309100    | QX-436     | LUK    |
| FTR5420320100    | QX-436D    | LUK    |
| FTR5420334100    | QX-436A    | LUK    |
| FTR5420359100    | QX-277-9   | LUK    |

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|------------------|------------|----------|
| FTRM100PHE1      | QXG-100PHE | SHEPPARD |
| FTRM100PHE3      | QXG-100PHE | SHEPPARD |
| FTRPEV181615L101 | QX-375-5   | TRW EV   |
| FTRPEV181615R101 | QX-375-7   | TRW EV   |
| FTRPEV181616R101 | QX-375-10  | TRW EV   |
| FTRPEV181618L101 | QX-375-13  | TRW EV   |
| FTRPEV181618R101 | QX-375-15  | TRW EV   |
| FTRPEV221609L101 | QX-375-12  | TRW EV   |
| FTRPEV221609R101 | QX-375-11  | TRW EV   |
| FTRPEV221614L304 | QX-578     | TRW EV   |
| FTRPEV221615L101 | QX-375     | TRW EV   |
| FTRPEV221618L101 | QX-375-2   | TRW EV   |
| FTRPEV222418R101 | QX-375-16  | TRW EV   |
| FTRPEV251615L101 | QX-375-4   | TRW EV   |
| FTRPEV251615R101 | QX-375-6   | TRW EV   |
| FTRPEV281615R101 | QX-375-14  | TRW EV   |
| FTRPEV282415R101 | QX-375-9   | TRW EV   |
| FTRPS181615R114  | QX-537-4   | TRW PS   |
| FTRPS221612R326  | QX-528-1   | TRW PS   |
| FTRPS221615L103  | QX-573-4   | TRW PS   |
| FTRPS221615R102  | QX-539-13  | TRW PS   |
| FTRPS221615R114  | QX-537-5   | TRW PS   |
| FTRPS221616R326  | QX-528     | TRW PS   |
| FTRPS251613L111  | QX-850     | TRW PS   |
| FTRPS251613R102  | QX-539-6   | TRW PS   |
| FTRPS251615L102  | QX-539-2   | TRW PS   |
| FTRPS251615L105  | QX-539-8   | TRW PS   |
| FTRPS251615L113  | QX-573-3   | TRW PS   |
| FTRPS251615R102  | QX-539     | TRW PS   |
| FTRPS251615R114  | QX-537-1   | TRW PS   |
| FTRPS252415L103  | QX-573-7   | TRW PS   |
| FTRPS252415L103  | QX-573-7   | TRW PS   |
| FTRPS252415R102  | QX-539-6C  | TRW PS   |
| FTRPS281615R102  | QX-539-14  | TRW PS   |
| FTRPS282013L111  | QX-850-2   | TRW PS   |
| FTRPS282015R102  | QX-539-7   | TRW PS   |
| FTRPS282416R106  | QX-2097A   | TRW PS   |
| FTRPS282417R103  | QX-573-6   | TRW PS   |
| FTRPS282815L103  | QX-573-2   | TRW PS   |
| FTRPS282815L114  | QX-537-2   | TRW PS   |
| FTRPS282815L116  | QX-583-1   | TRW PS   |
| FTRPS282815R114  | QX-537     | TRW PS   |
| FTRPS282816R102  | QX-539-5   | TRW PS   |
| FTRPS322415R103  | QX-718     | TRW PS   |
| FTRPS322418R103  | QX-718-2   | TRW PS   |
| FTRPS362415R102  | QX-539-12  | TRW PS   |
| FTRPS362415R105  | QX-539-9   | TRW PS   |
| FTRPS362418R103  | QX-725-2   | TRW PS   |

| OE/TAG#             | QXHD #     | STYLE    |
|---------------------|------------|----------|
| FTRPS362815L102     | QX-669     | TRW PS   |
| FTRPS362815L103     | QX-725     | TRW PS   |
| FTRPS362815L103     | QX-725     | TRW PS   |
| FTRPS362815L105     | QX-539-9B1 | TRW PS   |
| FTRPS362815L113     | QX-726     | TRW PS   |
| FTRPS362815R102     | QX-669-1   | TRW PS   |
| FTRTAS40042         | QXG-40042  | TRW TAS  |
| FTRTAS65004         | QXG-65004  | TRW TAS  |
| FTRTAS65024         | QXG-65024  | TRW TAS  |
| FTRTAS65079         | QXG-65079  | TRW TAS  |
| FTRTAS65090         | QXG-65090  | TRW TAS  |
| FTRTAS65155         | QXG-65155  | TRW TAS  |
| FTRTAS65219         | QXG-65219  | TRW TAS  |
| FTRTAS85142         | QXG-85142  | TRW TAS  |
| FTRTHP60004         | QXG-60004  | TRW THP  |
| FTRTHP60006         | QXG-60006  | TRW THP  |
| FTRTHP60008         | QXG-60008  | TRW THP  |
| FTRTHP60010         | QXG-60010  | TRW THP  |
| FTRV10F1P6P38C6G20  | QX-415     | VICKERS  |
| FTRV10NF1S6T38C5G   | QX-414     | VICKERS  |
| FTRV20F1D9T38C6GL   | QX-731-2   | VICKERS  |
| FTRV20F1P9P38C6G    | QX-381-1   | VICKERS  |
| FTRV20F1P9P38C6G11  | QX-381-1   | VICKERS  |
| FTRV20F1P9P38C6G22  | QX-381-1   | VICKERS  |
| FTRV20F1P9P38C6GL   | QX-381-1   | VICKERS  |
| FTRV20F1P9P38C6H22  | QX-381     | VICKERS  |
| FTRV20F1P9P38C6H22L | QX-381     | VICKERS  |
| FTRM100PHE1         | QXG-100PHE | SHEPPARD |
| FTRM100PHE3         | QXG-100PHE | SHEPPARD |
| FTRTAS40042         | QXG-40042  | TRW TAS  |
| FTRTAS65004         | QXG-65004  | TRW TAS  |
| FTRTAS65024         | QXG-65024  | TRW TAS  |
| FTRTAS65079         | QXG-65079  | TRW TAS  |
| FTRTAS65090         | QXG-65090  | TRW TAS  |
| FTRTAS65155         | QXG-65155  | TRW TAS  |
| FTRTAS65219         | QXG-65219  | TRW TAS  |
| FTRTAS85142         | QXG-85142  | TRW TAS  |
| FTRTHP60004         | QXG-60004  | TRW THP  |
| FTRTHP60006         | QXG-60006  | TRW THP  |
| FTRTHP60008         | QXG-60008  | TRW THP  |
| FTRTHP60010         | QXG-60010  | TRW THP  |
| GPTAS65004          | QXG-65004  | TRW TAS  |
| GPTAS65024          | QXG-65024  | TRW TAS  |
| GPTAS65079          | QXG-65079  | TRW TAS  |
| GPTAS65219          | QXG-65219  | TRW TAS  |
| GPTHP60006R         | QXG-60006  | TRW THP  |
| GPTAS65004          | QXG-65004  | TRW TAS  |
| GPTAS65024          | QXG-65024  | TRW TAS  |

| OE/TAG#           | QXHD #     | STYLE    |
|-------------------|------------|----------|
| GPTAS65079        | QXG-65079  | TRW TAS  |
| GPTAS65219        | QXG-65219  | TRW TAS  |
| GPTHP60006R       | QXG-60006  | TRW THP  |
| HD94PAH           | QXG-94PAH  | SHEPPARD |
| HD94PAH3WEL       | QXG-94PAH  | SHEPPARD |
| HFB64029          | QXG-65090  | TRW TAS  |
| HFB64082          | QXG-65090  | TRW TAS  |
| HFB64093          | QXG-65004  | TRW TAS  |
| HFB64104          | QXG-65004  | TRW TAS  |
| HM100PHEC         | QXG-100PHE | SHEPPARD |
| HM100PHER         | QXG-100PHE | SHEPPARD |
| K188140           | QX-850     | TRW PS   |
| K188146           | QX-415     | VICKERS  |
| K188226           | QX-336A1   | LUK      |
| K188227           | QX-539     | TRW PS   |
| K188231           | QX-539-8   | TRW PS   |
| K188240           | QX-850     | TRW PS   |
| K188241           | QX-539-6   | TRW PS   |
| K188246           | QX-539-9B1 | TRW PS   |
| K188252           | QX-669-1   | TRW PS   |
| K188264           | QX-539-6   | TRW PS   |
| K188265           | QX-539     | TRW PS   |
| K188280           | QX-336A1   | LUK      |
| K188325           | QX-573-7   | TRW PS   |
| K188334           | QX-573-7   | TRW PS   |
| K188344           | QX-539-8   | TRW PS   |
| K188347           | QX-850     | TRW PS   |
| K188350           | QX-573-4   | TRW PS   |
| K188354           | QX-537-5   | TRW PS   |
| K188355           | QX-537-3   | TRW PS   |
| K188361           | QX-537     | TRW PS   |
| K254223           | QXG-65090  | TRW TAS  |
| K257              | QX-539-13  | TRW PS   |
| KS00001584        | QX-2020-5  | ZF       |
| LEVTA65090        | QXG-65090  | TRW TAS  |
| LF183LH2114080    | QX-741A    | LUK      |
| LF183LH2114080WEL | QX-741A    | LUK      |
| LF183LH2114266    | QX-741     | LUK      |
| LF183LH2114266WEL | QX-741     | LUK      |
| LF183LH2115523    | QX-769B    | LUK      |
| LF183LH2115523WEL | QX-769B    | LUK      |
| LF183LH2115912    | QX-769     | LUK      |
| LF183LH2115912WEL | QX-769     | LUK      |
| LF73              | QX-336C    | LUK      |
| LF73CRPUB38       | QX-436D    | LUK      |
| LF73LPUB38        | QX-539-2   | TRW PS   |
| LF73LUUB38        | QX-336C    | LUK      |
| LH2110433         | QX-615A    | LUK      |

| OE/TAG#     | QXHD #     | STYLE    |
|-------------|------------|----------|
| LH2110434   | QX-436C    | LUK      |
| LH2110561   | QX-436D    | LUK      |
| LH2114080   | QX-741A    | LUK      |
| LH2114266   | QX-741     | LUK      |
| LH2114933   | QX-484     | LUK      |
| LH2115223   | QX-769B    | LUK      |
| LH2115523   | QX-769B    | LUK      |
| LH2115651   | QX-730     | LUK      |
| LH2115909   | QX-769A    | LUK      |
| LH2115912   | QX-769     | LUK      |
| LSCM100PHE1 | QXG-100PHE | SHEPPARD |
| LSCTAS40042 | QXG-40042  | TRW TAS  |
| LSCTAS65004 | QXG-65004  | TRW TAS  |
| LSCTAS65024 | QXG-65024  | TRW TAS  |
| LSCTAS65079 | QXG-65079  | TRW TAS  |
| LSCTHP60004 | QXG-60004  | TRW THP  |
| LSCTHP60006 | QXG-60006  | TRW THP  |
| LSCTHP60010 | QXG-60010  | TRW THP  |
| M100PAH     | QXG-100PAH | SHEPPARD |
| M100PAH1    | QXG-100PAH | SHEPPARD |
| M100PCL     | QXG-100PCL | SHEPPARD |
| M100PCL1    | QXG-100PCL | SHEPPARD |
| M100PCL1WEL | QXG-100PCL | SHEPPARD |
| M100PCLCGL  | QXG-100PCL | SHEPPARD |
| M100PCLX    | QXG-100PCL | SHEPPARD |
| M100PHE     | QXG-100PHE | SHEPPARD |
| M100PHE1    | QXG-100PHE | SHEPPARD |
| M100PHE1CGL | QXG-100PHE | SHEPPARD |
| M100PHE1R   | QXG-100PHE | SHEPPARD |
| M100PHE1SHP | QXG-100PHE | SHEPPARD |
| M100PHE1WEL | QXG-100PHE | SHEPPARD |
| M100PHE3    | QXG-100PHE | SHEPPARD |
| M100PHE3CGL | QXG-100PHE | SHEPPARD |
| M100PHE3R   | QXG-100PHE | SHEPPARD |
| M100PHE3SHP | QXG-100PHE | SHEPPARD |
| M100PHE3WEL | QXG-100PHE | SHEPPARD |
| M100PHE3X   | QXG-100PHE | SHEPPARD |
| M100PHEBXW  | QXG-100PHE | SHEPPARD |
| M100PHECGL  | QXG-100PHE | SHEPPARD |
| M100PHER    | QXG-100PHE | SHEPPARD |
| M100PHERBXW | QXG-100PHE | SHEPPARD |
| M100PMT     | QXG-100PMT | SHEPPARD |
| M100PMT3    | QXG-100PMT | SHEPPARD |
| M100PMT3WEL | QXG-100PMT | SHEPPARD |
| M80SAW1     | QXG-80SAW  | SHEPPARD |
| M80SAWR     | QXG-80SAW  | SHEPPARD |
| MM100PHE1   | QXG-100PHE | SHEPPARD |
| MM100PHE3   | QXG-100PHE | SHEPPARD |

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|--------------------|------------|----------|
| MSTM100PHE3        | QXG-100PHE | SHEPPARD |
| MSTPEV221618L101   | QX-375-2   | TRW EV   |
| MSTPEV221618R101   | QX-375-3   | TRW EV   |
| MSTTHP60010        | QXG-60010  | TRW THP  |
| MTAS40042          | QXG-40042  | TRW TAS  |
| MTAS40042R         | QXG-40042  | TRW TAS  |
| MTAS65004          | QXG-65004  | TRW TAS  |
| MTAS65024          | QXG-65024  | TRW TAS  |
| MTAS65079          | QXG-65079  | TRW TAS  |
| MTAS65079R         | QXG-65079  | TRW TAS  |
| MTAS65090          | QXG-65090  | TRW TAS  |
| MTAS65155          | QXG-65155  | TRW TAS  |
| MTAS65155R         | QXG-65155  | TRW TAS  |
| MTAS65219          | QXG-65219  | TRW TAS  |
| MTAS65219R         | QXG-65219  | TRW TAS  |
| MTAS85142          | QXG-85142  | TRW TAS  |
| MTAS85142R         | QXG-85142  | TRW TAS  |
| MTHP60006          | QXG-60006  | TRW THP  |
| MTHP60006R         | QXG-60006  | TRW THP  |
| MTHP60008          | QXG-60008  | TRW THP  |
| MTHP60010          | QXG-60010  | TRW THP  |
| MTHP60010R         | QXG-60010  | TRW THP  |
| MTP2106544         | QX-615     | LUK      |
| MTP2108830         | QX-484     | LUK      |
| MTPM100PHE1        | QXG-100PHE | SHEPPARD |
| MTPM100PHE3        | QXG-100PHE | SHEPPARD |
| MTPPEV251615L101   | QX-375-4   | TRW EV   |
| MTPPEV251615R101   | QX-375-6   | TRW EV   |
| MTPPS221615L116    | QX-583     | TRW PS   |
| MTPPS221615R102    | QX-539-13  | TRW PS   |
| MTPPS221615R103    | QX-573-5   | TRW PS   |
| MTPPS221615R114    | QX-537-5   | TRW PS   |
| MTPPS251615L102    | QX-539-2   | TRW PS   |
| MTPPS252415L103    | QX-573-7   | TRW PS   |
| MTPTAS40042        | QXG-40042  | TRW TAS  |
| MTPTAS65004        | QXG-65004  | TRW TAS  |
| MTPTAS65024        | QXG-65024  | TRW TAS  |
| MTPTAS65079        | QXG-65079  | TRW TAS  |
| MTPTAS65090        | QXG-65090  | TRW TAS  |
| MTPTAS65155        | QXG-65155  | TRW TAS  |
| MTPTAS65219        | QXG-65219  | TRW TAS  |
| MTPTHP60006        | QXG-60006  | TRW THP  |
| MTPTHP60008        | QXG-60008  | TRW THP  |
| MTPTHP60010        | QXG-60010  | TRW THP  |
| MTPV20F1P9P38C6G11 | QX-381-1   | VICKERS  |
| MTPV20F1P9P38C6GL  | QX-381-1   | VICKERS  |
| NDEV181615R101     | QX-375-7   | TRW EV   |
| NDPS282815L116     | QX-583-1   | TRW PS   |

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|------------------|------------|----------|
| NDPS322415R103   | QX-718     | TRW PS   |
| PEV181615L101    | QX-375-5   | TRW EV   |
| PEV181615L101CGL | QX-375-5   | TRW EV   |
| PEV181615R101    | QX-375-7   | TRW EV   |
| PEV181615R101CGL | QX-375-7   | TRW EV   |
| PEV181616R101    | QX-375-10  | TRW EV   |
| PEV181618L101    | QX-375-13  | TRW EV   |
| PEV181618R101    | QX-375-15  | TRW EV   |
| PEV221609L101    | QX-375-12  | TRW EV   |
| PEV221609R101    | QX-375-11  | TRW EV   |
| PEV221614L304    | QX-578     | TRW EV   |
| PEV221615L101    | QX-375     | TRW EV   |
| PEV221615L101CGL | QX-375     | TRW EV   |
| PEV221615R101    | QX-375-1   | TRW EV   |
| PEV221615R101CGL | QX-375-1   | TRW EV   |
| PEV221618L101    | QX-375-2   | TRW EV   |
| PEV221618R101    | QX-375-3   | TRW EV   |
| PEV221618L101CGL | QX-375-2   | TRW EV   |
| PEV221618R101CGL | QX-375-3   | TRW EV   |
| PEV222418R101    | QX-375-16  | TRW EV   |
| PEV251615L101    | QX-375-4   | TRW EV   |
| PEV251615L101CGL | QX-375-4   | TRW EV   |
| PEV251615R101    | QX-375-6   | TRW EV   |
| PEV251615R101CGL | QX-375-6   | TRW EV   |
| PEV251618R101    | QX-375-6C  | TRW EV   |
| PEV251618R101CGL | QX-375-6C  | TRW EV   |
| PEV281615R101    | QX-375-14  | TRW EV   |
| PEV282415R101    | QX-375-9   | TRW EV   |
| PEV282415R101CGL | QX-375-9   | TRW EV   |
| PFTPEV251615L101 | QX-375-4   | TRW EV   |
| PS100PCLR        | QXG-100PCL | SHEPPARD |
| PS181415R102     | QX-539B-2  | TRW PS   |
| PS181415R10200   | QX-539B-2  | TRW PS   |
| PS181415R102WEL  | QX-539B-2  | TRW PS   |
| PS181615R114     | QX-537-4   | TRW PS   |
| PS181615R114WEL  | QX-537-4   | TRW PS   |
| PS1THP60010      | QXG-60010  | TRW THP  |
| PS221415L116     | QX-583     | TRW PS   |
| PS221612R326     | QX-528-1   | TRW PS   |
| PS221612R32601   | QX-528-1   | TRW PS   |
| PS221612R326WEL  | QX-528-1   | TRW PS   |
| PS221615L103     | QX-573-4   | TRW PS   |
| PS221615L103     | QX-573-4   | TRW PS   |
| PS221615L10300AP | QX-573-4   | TRW PS   |
| PS221615L10301   | QX-573-4   | TRW PS   |
| PS221615L103CGL  | QX-573-4   | TRW PS   |
| PS221615L103WEL  | QX-573-4   | TRW PS   |
| PS221615L116     | QX-583     | TRW PS   |





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| OE/TAG#          | QXHD #    | STYLE  |
|------------------|-----------|--------|
| PS221615L116CGL  | QX-583    | TRW PS |
| PS221615L116WEL  | QX-583    | TRW PS |
| PS221615R102     | QX-539-13 | TRW PS |
| PS221615R10200   | QX-539-13 | TRW PS |
| PS221615R102S    | QX-539-13 | TRW PS |
| PS221615R102WEL  | QX-539-13 | TRW PS |
| PS221615R103     | QX-573-5  | TRW PS |
| PS221615R103     | QX-573-5  | TRW PS |
| PS221615R10300   | QX-573-5  | TRW PS |
| PS221615R10300AP | QX-573-5  | TRW PS |
| PS221615R103CGL  | QX-573-5  | TRW PS |
| PS221615R103WEL  | QX-573-5  | TRW PS |
| PS221615R114     | QX-537-5  | TRW PS |
| PS221615R114CGL  | QX-537-5  | TRW PS |
| PS221615R114WEL  | QX-537-5  | TRW PS |
| PS221616R326     | QX-528    | TRW PS |
| PS221616R32601S  | QX-528    | TRW PS |
| PS221616R326WEL  | QX-528    | TRW PS |
| PS221619L333A4   | QX-2104-1 | TRW PS |
| PS221619L334A4   | QX-528N   | TRW PS |
| PS251613L111     | QX-850    | TRW PS |
| PS251613L111     | QX-850    | TRW PS |
| PS251613L11101   | QX-850    | TRW PS |
| PS251613L111WEL  | QX-850    | TRW PS |
| PS251613R102     | QX-539-6  | TRW PS |
| PS251613R102     | QX-539-6  | TRW PS |
| PS251613R102WEL  | QX-539-6  | TRW PS |
| PS251614L102     | QX-539-4  | TRW PS |
| PS251615L102     | QX-539-2  | TRW PS |
| PS251615L10200AP | QX-539-2  | TRW PS |
| PS251615L10200AP | QX-539-2  | TRW PS |
| PS251615L102CGL  | QX-539-2  | TRW PS |
| PS251615L102WEL  | QX-539-2  | TRW PS |
| PS251615L105     | QX-539-8  | TRW PS |
| PS251615L10500   | QX-539-8  | TRW PS |
| PS251615L10501   | QX-539-8  | TRW PS |
| PS251615L105CGL  | QX-539-8  | TRW PS |
| PS251615L105WEL  | QX-539-8  | TRW PS |
| PS251615L113     | QX-573-3  | TRW PS |
| PS251615L113     | QX-573-3  | TRW PS |
| PS251615L11300   | QX-573-3  | TRW PS |
| PS251615L113WEL  | QX-573-3  | TRW PS |
| PS251615R102     | QX-539    | TRW PS |
| PS251615R10200   | QX-539    | TRW PS |
| PS251615R102CGL  | QX-539    | TRW PS |
| PS251615R102WEL  | QX-539    | TRW PS |
| PS251615R114     | QX-537-1  | TRW PS |
| PS251615R114     | QX-537-1  | TRW PS |

| OE/TAG#          | QXHD #    | STYLE  |
|------------------|-----------|--------|
| PS252415L103     | QX-573-7  | TRW PS |
| PS252415L10300   | QX-573-7  | TRW PS |
| PS252415L10300AP | QX-573-7  | TRW PS |
| PS252415L10301   | QX-573-7  | TRW PS |
| PS252415L103CGL  | QX-573-7  | TRW PS |
| PS252415L103WEL  | QX-573-7  | TRW PS |
| PS252415R102     | QX-539-6C | TRW PS |
| PS252415R102     | QX-539-6C | TRW PS |
| PS252415R10200   | QX-539-6C | TRW PS |
| PS252415R102WEL  | QX-539-6C | TRW PS |
| PS252415R114     | QX-537-3  | TRW PS |
| PS252415R11401   | QX-537-3  | TRW PS |
| PS252415R114CGL  | QX-537-3  | TRW PS |
| PS252415R114WEL  | QX-537-3  | TRW PS |
| PS281615R102     | QX-539-14 | TRW PS |
| PS281615R102CGL  | QX-539-14 | TRW PS |
| PS281615R102WEL  | QX-539-14 | TRW PS |
| PS282013L111     | QX-850-2  | TRW PS |
| PS282013L111     | QX-850-2  | TRW PS |
| PS282013L111WEL  | QX-850-2  | TRW PS |
| PS282013R102     | QX-539-11 | TRW PS |
| PS282013R102WEL  | QX-539-11 | TRW PS |
| PS282015R102     | QX-539-7  | TRW PS |
| PS282015R102     | QX-539-7  | TRW PS |
| PS282015R10201   | QX-539-7  | TRW PS |
| PS282015R102WEL  | QX-539-7  | TRW PS |
| PS282416L106     | QX-2097-1 | TRW PS |
| PS282416L106CGL  | QX-2097-1 | TRW PS |
| PS282416L106WEL  | QX-2097-1 | TRW PS |
| PS282416R106     | QX-2097A  | TRW PS |
| PS282416R106     | QX-2097A  | TRW PS |
| PS282416R10601   | QX-2097A  | TRW PS |
| PS282416R106CGL  | QX-2097A  | TRW PS |
| PS282416R106WEL  | QX-2097A  | TRW PS |
| PS282417R103     | QX-573-6  | TRW PS |
| PS282417R103     | QX-573-6  | TRW PS |
| PS282417R103WEL  | QX-573-6  | TRW PS |
| PS282815L103CGL  | QX-573-2  | TRW PS |
| PS282815L103WEL  | QX-573-2  | TRW PS |
| PS282815L114WEL  | QX-537-2  | TRW PS |
| PS282815L114     | QX-537-2  | TRW PS |
| PS282815L114     | QX-537-2  | TRW PS |
| PS282815L116     | QX-583-1  | TRW PS |
| PS282815L116WEL  | QX-583-1  | TRW PS |
| PS282815R114     | QX-537    | TRW PS |
| PS282815R114     | QX-537    | TRW PS |
| PS282815R114CGL  | QX-537    | TRW PS |
| PS282815R114WEL  | QX-537    | TRW PS |



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| OE/TAG#         | QXHD #     | STYLE  |
|-----------------|------------|--------|
| PS282816R102    | QX-539-5   | TRW PS |
| PS282816R102    | QX-539-5   | TRW PS |
| PS282816R105    | QX-539-5   | TRW PS |
| PS322415R103    | QX-718     | TRW PS |
| PS322415R103    | QX-718     | TRW PS |
| PS322415R103CGL | QX-718     | TRW PS |
| PS322415R103WEL | QX-718     | TRW PS |
| PS322418R103    | QX-718-2   | TRW PS |
| PS322418R103    | QX-718-2   | TRW PS |
| PS322418R103CGL | QX-718-2   | TRW PS |
| PS322418R103WEL | QX-718-2   | TRW PS |
| PS362415L111    | QX-850-4   | TRW PS |
| PS362415L111    | QX-850-4   | TRW PS |
| PS362415L11101  | QX-850-4   | TRW PS |
| PS362415L111WEL | QX-850-4   | TRW PS |
| PS362415R102    | QX-539-12  | TRW PS |
| PS362415R102    | QX-539-12  | TRW PS |
| PS362415R102CGL | QX-539-12  | TRW PS |
| PS362415R102WEL | QX-539-12  | TRW PS |
| PS362415R105    | QX-539-9   | TRW PS |
| PS362415R105CGL | QX-539-9   | TRW PS |
| PS362415R105WEL | QX-539-9   | TRW PS |
| PS362418R103    | QX-725-2   | TRW PS |
| PS362418R103    | QX-725-2   | TRW PS |
| PS362418R103WEL | QX-725-2   | TRW PS |
| PS362815L102    | QX-669     | TRW PS |
| PS362815L102    | QX-669     | TRW PS |
| PS362815L102CGL | QX-669     | TRW PS |
| PS362815L102WEL | QX-669     | TRW PS |
| PS362815L103    | QX-725     | TRW PS |
| PS362815L103    | QX-725     | TRW PS |
| PS362815L103WEL | QX-725     | TRW PS |
| PS362815L105    | QX-539-9B1 | TRW PS |
| PS362815L10501  | QX-539-9B1 | TRW PS |
| PS362815L105WEL | QX-539-9B1 | TRW PS |
| PS362815L111    | QX-850-5   | TRW PS |
| PS362815L111    | QX-850-5   | TRW PS |
| PS362815L11101  | QX-850-5   | TRW PS |
| PS362815L111CGL | QX-850-5   | TRW PS |
| PS362815L111WEL | QX-850-5   | TRW PS |
| PS362815L113    | QX-726     | TRW PS |
| PS362815L113CGL | QX-726     | TRW PS |
| PS362815L113WEL | QX-726     | TRW PS |
| PS362815R102    | QX-669-1   | TRW PS |
| PS362815R102    | QX-669-1   | TRW PS |
| PS362815R10200  | QX-669-1   | TRW PS |
| PS362815R10201  | QX-669-1   | TRW PS |
| PS362815R102CGL | QX-669-1   | TRW PS |

| OE/TAG#           | QXHD #     | STYLE    |
|-------------------|------------|----------|
| PS362815R102WEL   | QX-669-1   | TRW PS   |
| PS362815R103      | QX-725-3   | TRW PS   |
| PS362815R105      | QX-539-9C  | TRW PS   |
| PS362818R102      | QX-669-1A  | TRW PS   |
| PS362818R102      | QX-669-1A  | TRW PS   |
| PS362818R102WEL   | QX-669-1A  | TRW PS   |
| PSSEV181618L10101 | QX-375-13  | TRW EV   |
| PSSEV222418R10101 | QX-375-16  | TRW EV   |
| PSTPEV221615R101  | QX-375-1   | TRW EV   |
| PSTPEV251615L101  | QX-375-4   | TRW EV   |
| PSTPS221615L116   | QX-583     | TRW PS   |
| R462106544        | QX-615     | LUK      |
| R462108830        | QX-484     | LUK      |
| R465420176100     | QX-336-2   | LUK      |
| R465420188100     | QX-336A5   | LUK      |
| R465420195100     | QX-336G    | LUK      |
| R465420212100     | QX-336D    | LUK      |
| R465420260100     | QX-336-4   | LUK      |
| R465420273100     | QX-396     | LUK      |
| RFM100PHE         | QXG-100PHE | SHEPPARD |
| RFPEV181615R101   | QX-375-7   | TRW EV   |
| RFPEV221615R101   | QX-375-1   | TRW EV   |
| RFPS221615L103    | QX-573-4   | TRW PS   |
| RFPS221615L116    | QX-583     | TRW PS   |
| RFTAS65079        | QXG-65079  | TRW TAS  |
| RFTAS65155        | QXG-65155  | TRW TAS  |
| RFTAS65219        | QXG-65219  | TRW TAS  |
| RG65004X          | QXG-65004  | TRW TAS  |
| RG65024X          | QXG-65024  | TRW TAS  |
| RG65155RX         | QXG-65155  | TRW TAS  |
| RGTEV221614L30407 | QX-578     | TRW EV   |
| RGTPS221615R10200 | QX-539-13  | TRW PS   |
| RGTPS221615R10300 | QX-573-5   | TRW PS   |
| RGTPS251615L10500 | QX-539-8   | TRW PS   |
| RGTPS251615L11300 | QX-573-3   | TRW PS   |
| RGTPS251615R10200 | QX-539     | TRW PS   |
| RGTPS252415L10300 | QX-573-7   | TRW PS   |
| RGTPS252415R10200 | QX-539-6C  | TRW PS   |
| RGTPS252415R10200 | QX-539-6C  | TRW PS   |
| RGTPS282815R114   | QX-537     | TRW PS   |
| RGTPS362815L10500 | QX-539-9B1 | TRW PS   |
| RGTTAS40042R      | QXG-40042  | TRW TAS  |
| RGTTAS65004AX     | QXG-65004  | TRW TAS  |
| RGTTAS65004R      | QXG-65004  | TRW TAS  |
| RGTTAS65004R      | QXG-65004  | TRW TAS  |
| RGTTAS65004RC     | QXG-65004  | TRW TAS  |
| RGTTAS65004RE     | QXG-65004  | TRW TAS  |
| RGTTAS65024R      | QXG-65024  | TRW TAS  |



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| OE/TAG#       | QXHD #    | STYLE   |
|---------------|-----------|---------|
| RGTTAS65079R  | QXG-65079 | TRW TAS |
| RGTTAS65090R  | QXG-65090 | TRW TAS |
| RGTTAS65155AX | QXG-65155 | TRW TAS |
| RGTTAS65155R  | QXG-65155 | TRW TAS |
| RGTTAS65219R  | QXG-65219 | TRW TAS |
| RGTTAS85142A  | QXG-85142 | TRW TAS |
| RGTTAS85142R  | QXG-85142 | TRW TAS |
| RGTTAS85142X  | QXG-85142 | TRW TAS |
| RGTTHP60004R  | QXG-60004 | TRW THP |
| RGTTHP60006AR | QXG-60006 | TRW THP |
| RGTTHP60006R  | QXG-60006 | TRW THP |
| RGTTHP60006X  | QXG-60006 | TRW THP |
| RGTTHP60008AR | QXG-60008 | TRW THP |
| RGTTHP60008R  | QXG-60008 | TRW THP |
| RGTTHP60008X  | QXG-60008 | TRW THP |
| RGTTHP60010R  | QXG-60010 | TRW THP |
| RGTTHP60010X  | QXG-60010 | TRW THP |
| RGT/TAS65219R | QXG-65219 | TRW TAS |
| RGT60001      | QXG-65090 | TRW TAS |
| RGT60011R     | QXG-60010 | TRW THP |
| RGT65157R     | QXG-65155 | TRW TAS |
| RGT66001R     | QXG-65090 | TRW TAS |
| RGT66005      | QXG-65024 | TRW TAS |
| RGT66005RMAN  | QXG-65024 | TRW TAS |
| RGT66007R     | QXG-65004 | TRW TAS |
| RGTTAS40042R  | QXG-40042 | TRW TAS |
| RGTTAS65004AX | QXG-65004 | TRW TAS |
| RGTTAS65004R  | QXG-65004 | TRW TAS |
| RGTTAS65004R  | QXG-65004 | TRW TAS |
| RGTTAS65004RC | QXG-65004 | TRW TAS |
| RGTTAS65004RE | QXG-65004 | TRW TAS |
| RGTTAS65024R  | QXG-65024 | TRW TAS |
| RGTTAS65079R  | QXG-65079 | TRW TAS |
| RGTTAS65090R  | QXG-65090 | TRW TAS |
| RGTTAS65155AX | QXG-65155 | TRW TAS |
| RGTTAS65155R  | QXG-65155 | TRW TAS |
| RGTTAS65219R  | QXG-65219 | TRW TAS |
| RGTTAS85142A  | QXG-85142 | TRW TAS |
| RGTTAS85142R  | QXG-85142 | TRW TAS |
| RGTTAS85142X  | QXG-85142 | TRW TAS |
| RGTTHP60004R  | QXG-60004 | TRW THP |
| RGTTHP60006AR | QXG-60006 | TRW THP |
| RGTTHP60006R  | QXG-60006 | TRW THP |
| RGTTHP60006X  | QXG-60006 | TRW THP |
| RGTTHP60008AR | QXG-60008 | TRW THP |
| RGTTHP60008R  | QXG-60008 | TRW THP |
| RGTTHP60008X  | QXG-60008 | TRW THP |
| RGTTHP60010R  | QXG-60010 | TRW THP |

| OE/TAG#            | QXHD #     | STYLE    |
|--------------------|------------|----------|
| RGTTHP60010X       | QXG-60010  | TRW THP  |
| RHSM100PHER        | QXG-100PHE | SHEPPARD |
| RP11006X           | QX-378     | ZF       |
| RP11007X           | QX-378-1   | ZF       |
| RP11009X           | QX-257-1   | ZF       |
| RP11015X           | QX-257-2   | ZF       |
| RP13001X           | QX-336E    | LUK      |
| RP13003            | QX-336-1   | LUK      |
| RP20201X           | QX-137-6   | SAGINAW  |
| RP20202X           | QX-137-4   | SAGINAW  |
| RP221601X          | QX-573-5   | TRW PS   |
| RP221602           | QX-573-4   | TRW PS   |
| RP221602X          | QX-573-4   | TRW PS   |
| RP221603X          | QX-539-13  | TRW PS   |
| RP221605           | QX-375     | TRW EV   |
| RP221605X          | QX-375     | TRW EV   |
| RP221607X          | QX-375-1   | TRW EV   |
| RP221613X          | QX-583     | TRW PS   |
| RP221614X          | QX-375-5   | TRW EV   |
| RP221615AX         | QX-537-1   | TRW PS   |
| RP221615X          | QX-539-2   | TRW PS   |
| RP221619X          | QX-375-6   | TRW EV   |
| RP221620X          | QX-537-3   | TRW PS   |
| RP221621X          | QX-573-7   | TRW PS   |
| RP50101X           | QX-415     | VICKERS  |
| RP60104X           | QX-381-1   | VICKERS  |
| RP70101X           | QX-539-8   | TRW PS   |
| RPSTAS65004        | QXG-65004  | TRW TAS  |
| RPSTAS65024        | QXG-65024  | TRW TAS  |
| RPSPEV251615L101   | QX-375-4   | TRW EV   |
| RPSPEV251615R101   | QX-375-6   | TRW EV   |
| RPSPS221615R102    | QX-539-13  | TRW PS   |
| RPSPS251615L102    | QX-539-2   | TRW PS   |
| RPSPS252415L103    | QX-573-7   | TRW PS   |
| RPSTAS65004        | QXG-65004  | TRW TAS  |
| RPSTAS65024        | QXG-65024  | TRW TAS  |
| RPSV20F1P9P38C6H22 | QX-381     | VICKERS  |
| RSGTAS40042        | QXG-40042  | TRW TAS  |
| RSGTAS65024        | QXG-65024  | TRW TAS  |
| RSGTAS65090        | QXG-65090  | TRW TAS  |
| RSGTAS65219A       | QXG-65219  | TRW TAS  |
| RSGTHP60010        | QXG-60010  | TRW THP  |
| RTAS40042C         | QXG-40042  | TRW TAS  |
| RTAS40042R         | QXG-40042  | TRW TAS  |
| RTAS65004C         | QXG-65004  | TRW TAS  |
| RTAS65004R         | QXG-65004  | TRW TAS  |
| RTAS65024C         | QXG-65024  | TRW TAS  |
| RTAS65024R         | QXG-65024  | TRW TAS  |

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| OE/TAG#        | QXHD #     | STYLE    |
|----------------|------------|----------|
| RTAS65079C     | QXG-65079  | TRW TAS  |
| RTAS65079R     | QXG-65079  | TRW TAS  |
| RTAS65090R     | QXG-65090  | TRW TAS  |
| RTAS65155R     | QXG-65155  | TRW TAS  |
| RTAS65219C     | QXG-65219  | TRW TAS  |
| RTAS65219R     | QXG-65219  | TRW TAS  |
| RTAS85142C     | QXG-85142  | TRW TAS  |
| RTAS85142R     | QXG-85142  | TRW TAS  |
| RTHP60004C     | QXG-60004  | TRW THP  |
| RTHP60004R     | QXG-60004  | TRW THP  |
| RTHP60006C     | QXG-60006  | TRW THP  |
| RTHP60006R     | QXG-60006  | TRW THP  |
| RTHP60008C     | QXG-60008  | TRW THP  |
| RTHP60008R     | QXG-60008  | TRW THP  |
| RTHP60010C     | QXG-60010  | TRW THP  |
| RTHP60010R     | QXG-60010  | TRW THP  |
| S17552         | QX-436D    | LUK      |
| S19041         | QX-375-2   | TRW EV   |
| S20762         | QX-375-7   | TRW EV   |
| S21454         | QXG-60010  | TRW THP  |
| S33695         | QXG-65004  | TRW TAS  |
| SA524          | QX-415     | VICKERS  |
| SBB1           | QX-137-4   | SAGINAW  |
| SBB3           | QX-137-6   | SAGINAW  |
| SHEM100PHE1R   | QXG-100PHE | SHEPPARD |
| SHEM100PHE3R   | QXG-100PHE | SHEPPARD |
| SHEZRXM100PHE3 | QXG-100PHE | SHEPPARD |
| SHPM100PCLX    | QXG-100PCL | SHEPPARD |
| SP201X         | QX-137-6   | SAGINAW  |
| SP202X         | QX-137-4   | SAGINAW  |
| SP33113        | QX-375-7   | TRW EV   |
| SP33114        | QX-375-4   | TRW EV   |
| SP33117        | QX-375-15  | TRW EV   |
| SP33128        | QX-375-1   | TRW EV   |
| SP33133        | QX-539-14  | TRW PS   |
| SPBONR         | QX-137-4   | SAGINAW  |
| SPBSNR         | QX-137-6   | SAGINAW  |
| SRTP#800       | QX-137-6   | SAGINAW  |
| SRTP#801       | QX-137-4   | SAGINAW  |
| TAS40042       | QXG-40042  | TRW TAS  |
| TAS40042A      | QXG-40042  | TRW TAS  |
| TAS40042BXW    | QXG-40042  | TRW TAS  |
| TAS40042CGL    | QXG-40042  | TRW TAS  |
| TAS40042R      | QXG-40042  | TRW TAS  |
| TAS40042RBXW   | QXG-40042  | TRW TAS  |
| TAS40042RMAN   | QXG-40042  | TRW TAS  |
| TAS40042WEL    | QXG-40042  | TRW TAS  |
| TAS65004       | QXG-65004  | TRW TAS  |

| OE/TAG#       | QXHD #    | STYLE   |
|---------------|-----------|---------|
| TAS650047     | QXG-65004 | TRW TAS |
| TAS65004A     | QXG-65004 | TRW TAS |
| TAS65004AX    | QXG-65004 | TRW TAS |
| TAS65004BXW   | QXG-65004 | TRW TAS |
| TAS65004R     | QXG-65004 | TRW TAS |
| TAS65004RBXW  | QXG-65004 | TRW TAS |
| TAS65004RC    | QXG-65004 | TRW TAS |
| TAS65004RE    | QXG-65004 | TRW TAS |
| TAS65004WEL   | QXG-65004 | TRW TAS |
| TAS65004X     | QXG-65004 | TRW TAS |
| TAS65007      | QXG-65090 | TRW TAS |
| TAS65007WEL   | QXG-65090 | TRW TAS |
| TAS65009      | QXG-65024 | TRW TAS |
| TAS65024      | QXG-65024 | TRW TAS |
| TAS65024A     | QXG-65024 | TRW TAS |
| TAS65024AEXCH | QXG-65024 | TRW TAS |
| TAS65024BXW   | QXG-65024 | TRW TAS |
| TAS65024CGL   | QXG-65024 | TRW TAS |
| TAS65024EXCH  | QXG-65024 | TRW TAS |
| TAS65024R     | QXG-65024 | TRW TAS |
| TAS65024RBXW  | QXG-65024 | TRW TAS |
| TAS65024TRW   | QXG-65024 | TRW TAS |
| TAS65024WEL   | QXG-65024 | TRW TAS |
| TAS65053A     | QXG-65004 | TRW TAS |
| TAS65079      | QXG-65079 | TRW TAS |
| TAS65079A     | QXG-65079 | TRW TAS |
| TAS65079AEXCH | QXG-65079 | TRW TAS |
| TAS65079AEXCH | QXG-65079 | TRW TAS |
| TAS65079BXW   | QXG-65079 | TRW TAS |
| TAS65079CGL   | QXG-65079 | TRW TAS |
| TAS65079EXCH  | QXG-65079 | TRW TAS |
| TAS65079R     | QXG-65079 | TRW TAS |
| TAS65079RBXW  | QXG-65079 | TRW TAS |
| TAS65079RMAN  | QXG-65079 | TRW TAS |
| TAS65079TRW   | QXG-65079 | TRW TAS |
| TAS65079WEL   | QXG-65079 | TRW TAS |
| TAS65080      | QXG-65090 | TRW TAS |
| TAS65090      | QXG-65090 | TRW TAS |
| TAS65090AEXCH | QXG-65090 | TRW TAS |
| TAS65090BXW   | QXG-65090 | TRW TAS |
| TAS65090CGL   | QXG-65090 | TRW TAS |
| TAS65090EXCH  | QXG-65090 | TRW TAS |
| TAS65090R     | QXG-65090 | TRW TAS |
| TAS65090RBXW  | QXG-65090 | TRW TAS |
| TAS65090WEL   | QXG-65090 | TRW TAS |
| TAS65102A     | QXG-65004 | TRW TAS |
| TAS65109A     | QXG-65004 | TRW TAS |
| TAS65144A     | QXG-65004 | TRW TAS |



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| OE/TAG#         | QXHD #     | STYLE    |
|-----------------|------------|----------|
| TAS65155        | QXG-65155  | TRW TAS  |
| TAS65155A       | QXG-65155  | TRW TAS  |
| TAS65155AX      | QXG-65155  | TRW TAS  |
| TAS65155BXW     | QXG-65155  | TRW TAS  |
| TAS65155CGL     | QXG-65155  | TRW TAS  |
| TAS65155R       | QXG-65155  | TRW TAS  |
| TAS65155RBXW    | QXG-65155  | TRW TAS  |
| TAS65155WEL     | QXG-65155  | TRW TAS  |
| TAS65157        | QXG-65155  | TRW TAS  |
| TAS65218        | QXG-65218  | TRW TAS  |
| TAS65218A       | QXG-65218  | TRW TAS  |
| TAS65218AEXCH   | QXG-65218  | TRW TAS  |
| TAS65218R       | QXG-65218  | TRW TAS  |
| TAS65218RMAN    | QXG-65218  | TRW TAS  |
| TAS65218WEL     | QXG-65218  | TRW TAS  |
| TAS65219        | QXG-65219  | TRW TAS  |
| TAS65219A       | QXG-65219  | TRW TAS  |
| TAS65219AEXCH   | QXG-65219  | TRW TAS  |
| TAS65219BXW     | QXG-65219  | TRW TAS  |
| TAS65219CGL     | QXG-65219  | TRW TAS  |
| TAS65219EXCH    | QXG-65219  | TRW TAS  |
| TAS65219R       | QXG-65219  | TRW TAS  |
| TAS65219RBXW    | QXG-65219  | TRW TAS  |
| TAS65219RMAN    | QXG-65219  | TRW TAS  |
| TAS65219TRW     | QXG-65219  | TRW TAS  |
| TAS65219WEL     | QXG-65219  | TRW TAS  |
| TAS652248       | QXG-65219  | TRW TAS  |
| TAS652274       | QXG-65090  | TRW TAS  |
| TAS652292       | QXG-65024  | TRW TAS  |
| TAS652294       | QXG-65090  | TRW TAS  |
| TAS652295       | QXG-65004  | TRW TAS  |
| TAS6566001WEL   | QXG-65090  | TRW TAS  |
| TAS85142        | QXG-85142  | TRW TAS  |
| TAS85142A       | QXG-85142  | TRW TAS  |
| TAS85142BXW     | QXG-85142  | TRW TAS  |
| TAS85142CGL     | QXG-85142  | TRW TAS  |
| TAS85142R       | QXG-85142  | TRW TAS  |
| TAS85142RBXW    | QXG-85142  | TRW TAS  |
| TAS85142WEL     | QXG-85142  | TRW TAS  |
| TAS85145AEXCH   | QXG-85145  | TRW TAS  |
| TAS85145WEL     | QXG-85145  | TRW TAS  |
| TAS852275       | QXG-85142  | TRW TAS  |
| TDARPSSHM100PEL | QXG-100PCL | SHEPPARD |
| TDARPSTAS65004  | QXG-65004  | TRW TAS  |
| TDARPSTAS65024  | QXG-65024  | TRW TAS  |
| TDARPSSHM100PEL | QXG-100PCL | SHEPPARD |
| TDARPSTAS65004  | QXG-65004  | TRW TAS  |
| TDARPSTAS65024  | QXG-65024  | TRW TAS  |

| OE/TAG#            | QXHD #    | STYLE    |
|--------------------|-----------|----------|
| THP60004           | QXG-60004 | TRW THP  |
| THP60004A          | QXG-60004 | TRW THP  |
| THP60004BXW        | QXG-60004 | TRW THP  |
| THP60004CGL        | QXG-60004 | TRW THP  |
| THP60004R          | QXG-60004 | TRW THP  |
| THP60004RBXW       | QXG-60004 | TRW THP  |
| THP60004RMAN       | QXG-60004 | TRW THP  |
| THP60004WEL        | QXG-60004 | TRW THP  |
| THP60006           | QXG-60006 | TRW THP  |
| THP60006AR         | QXG-60006 | TRW THP  |
| THP60006BXW        | QXG-60006 | TRW THP  |
| THP60006CGL        | QXG-60006 | TRW THP  |
| THP60006R          | QXG-60006 | TRW THP  |
| THP60006RBXW       | QXG-60006 | TRW THP  |
| THP60006WEL        | QXG-60006 | TRW THP  |
| THP60008           | QXG-60008 | TRW THP  |
| THP60008AR         | QXG-60008 | TRW THP  |
| THP60008BXW        | QXG-60008 | TRW THP  |
| THP60008CGL        | QXG-60008 | TRW THP  |
| THP60008R          | QXG-60008 | TRW THP  |
| THP60008RBXW       | QXG-60008 | TRW THP  |
| THP60008RMAN       | QXG-60008 | TRW THP  |
| THP60008WEL        | QXG-60008 | TRW THP  |
| THP60010           | QXG-60010 | TRW THP  |
| THP60010BXW        | QXG-60010 | TRW THP  |
| THP60010CGL        | QXG-60010 | TRW THP  |
| THP60010R          | QXG-60010 | TRW THP  |
| THP60010RBXW       | QXG-60010 | TRW THP  |
| THP60010WEL        | QXG-60010 | TRW THP  |
| THP60011           | QXG-60010 | TRW THP  |
| THP602299          | QXG-60006 | TRW THP  |
| TRWPS181415R10200  | QX-539B-2 | TRW PS   |
| TRWPS221615R10300  | QX-573-5  | TRW PS   |
| TRWPS251615L10500  | QX-539-8  | TRW PS   |
| TRWM80SAWR         | QXG-80SAW | SHEPPARD |
| TRWTAS40042R       | QXG-40042 | TRW TAS  |
| TRWTAS65155R       | QXG-65155 | TRW TAS  |
| TRWTAS65219R       | QXG-65219 | TRW TAS  |
| TRWTHP60004A       | QXG-60004 | TRW THP  |
| TRWTHP60006R       | QXG-60006 | TRW THP  |
| TRWTHP60008R       | QXG-60008 | TRW THP  |
| TRWTHP60010R       | QXG-60010 | TRW THP  |
| V10F1P6P38C6G      | QX-415    | VICKERS  |
| V10F1P6P38C6G20    | QX-415    | VICKERS  |
| V10F1P6P38C6G20L   | QX-415    | VICKERS  |
| V10F1P6P38C6G20LWE | QX-415    | VICKERS  |
| V10F1P6P38C6G20WEL | QX-415    | VICKERS  |
| V10F1P7P38D5G      | QX-415-1  | VICKERS  |

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| OE/TAG#            | QXHD #    | STYLE   |
|--------------------|-----------|---------|
| V10F1P7P38D5G20    | QX-415-1  | VICKERS |
| V10F1P7P38D5G20WEL | QX-415-1  | VICKERS |
| V10NF1S6T38C5G     | QX-414    | VICKERS |
| V10NF1S6T38C5G20WE | QX-414    | VICKERS |
| V20F1D9T38C6GL     | QX-731-2  | VICKERS |
| V20F1P11P38D6H11   | QX-381-2  | VICKERS |
| V20F1P13P38B6H     | QX-381-6  | VICKERS |
| V20F1P13P38B6H22   | QX-381-6  | VICKERS |
| V20F1P9P38C6G      | QX-381-1  | VICKERS |
| V20F1P9P38C6G11    | QX-381-1  | VICKERS |
| V20F1P9P38C6G11L   | QX-381-1  | VICKERS |
| V20F1P9P38C6G11LWE | QX-381-1  | VICKERS |
| V20F1P9P38C6G2     | QX-381-1  | VICKERS |
| V20F1P9P38C6G20    | QX-381    | VICKERS |
| V20F1P9P38C6G20LWE | QX-381-1  | VICKERS |
| V20F1P9P38C6G20WEL | QX-381-1  | VICKERS |
| V20F1P9P38C6G22    | QX-381-1  | VICKERS |
| V20F1P9P38C6G22LWE | QX-381-1  | VICKERS |
| V20F1P9P38C6G22WEL | QX-381-1  | VICKERS |
| V20F1P9P38C6GL     | QX-381-1  | VICKERS |
| V20F1P9P38C6GR     | QX-381-1  | VICKERS |
| V20F1P9P38C6H      | QX-381    | VICKERS |
| V20F1P9P38C6H1     | QX-381    | VICKERS |
| V20F1P9P38C6H11    | QX-381    | VICKERS |
| V20F1P9P38C6H22    | QX-381    | VICKERS |
| V20F1P9P38C6H22L   | QX-381    | VICKERS |
| V20F1P9P38C6H22LWE | QX-381    | VICKERS |
| V20F1P9P38C6H22WEL | QX-381    | VICKERS |
| V20F1P9P38C6HL     | QX-381    | VICKERS |
| V20NF1D11P38C6G20  | QX-731-3  | VICKERS |
| V20NF1D11P38C6GL   | QX-731-3  | VICKERS |
| V20NF1D6P38C6G     | QX-731    | VICKERS |
| V20NF1D6P38C6G20   | QX-731    | VICKERS |
| V20NF1D6P38C6G20WE | QX-731    | VICKERS |
| VICV10F1P6P38C6G20 | QX-415    | VICKERS |
| VICV20F1P9P38C6G   | QX-381-1  | VICKERS |
| VICV20F1P9P38C6G11 | QX-381-1  | VICKERS |
| VICV20F1P9P38C6G22 | QX-381-1  | VICKERS |
| VO21187423         | QX-2020-5 | ZF      |
| VT73515971         | QX-563-1  | LUK     |
| VT73G2108830       | QX-484    | LUK     |
| VT73G2108830WEL    | QX-484    | LUK     |
| VT73Z2106544       | QX-615    | LUK     |
| VT73Z2106544WEL    | QX-615    | LUK     |
| WA920301013        | QX-336A5  | LUK     |
| WWSTAS65004R       | QXG-65004 | TRW TAS |
| WWSTAS65090R       | QXG-65090 | TRW TAS |
| WWSTAS65004R       | QXG-65004 | TRW TAS |

| OE/TAG#        | QXHD #     | STYLE    |
|----------------|------------|----------|
| WWSTAS65090R   | QXG-65090  | TRW TAS  |
| ZF7674955343   | QX-257-1   | ZF       |
| ZF7674955343R  | QX-257-1   | ZF       |
| ZF7674955343RC | QX-257-1   | ZF       |
| ZF7674955344   | QX-257-2   | ZF       |
| ZF7674955344R  | QX-257-2   | ZF       |
| ZF7674955344RC | QX-257-2   | ZF       |
| ZF7677955179   | QX-378-1   | ZF       |
| ZF7677955179R  | QX-378-1   | ZF       |
| ZF7677955179RC | QX-378-1   | ZF       |
| ZF7677955180   | QX-378     | ZF       |
| ZF7677955180R  | QX-378     | ZF       |
| ZF7677955180RC | QX-378     | ZF       |
| ZF7685955301   | QX-370-4   | ZF       |
| ZF8693974672   | QX-2020-5  | ZF       |
| ZF8695974635   | QX-2020B   | ZF       |
| ZRXHD94PAH     | QXG-94PAH  | SHEPPARD |
| ZRXM100PCL     | QXG-100PCL | SHEPPARD |
| ZRXM100PHE     | QXG-100PHE | SHEPPARD |
| ZRXM100PHE1    | QXG-100PHE | SHEPPARD |
| ZRXM100PHE3    | QXG-100PHE | SHEPPARD |
| ZRXM100PMT     | QXG-100PMT | SHEPPARD |
| ZRXM80SAW      | QXG-80SAW  | SHEPPARD |
| ZYB1616L       | QX-381-1   | VICKERS  |

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