

# Automatic Lubrication

## Series Progressive Systems Selection Guide

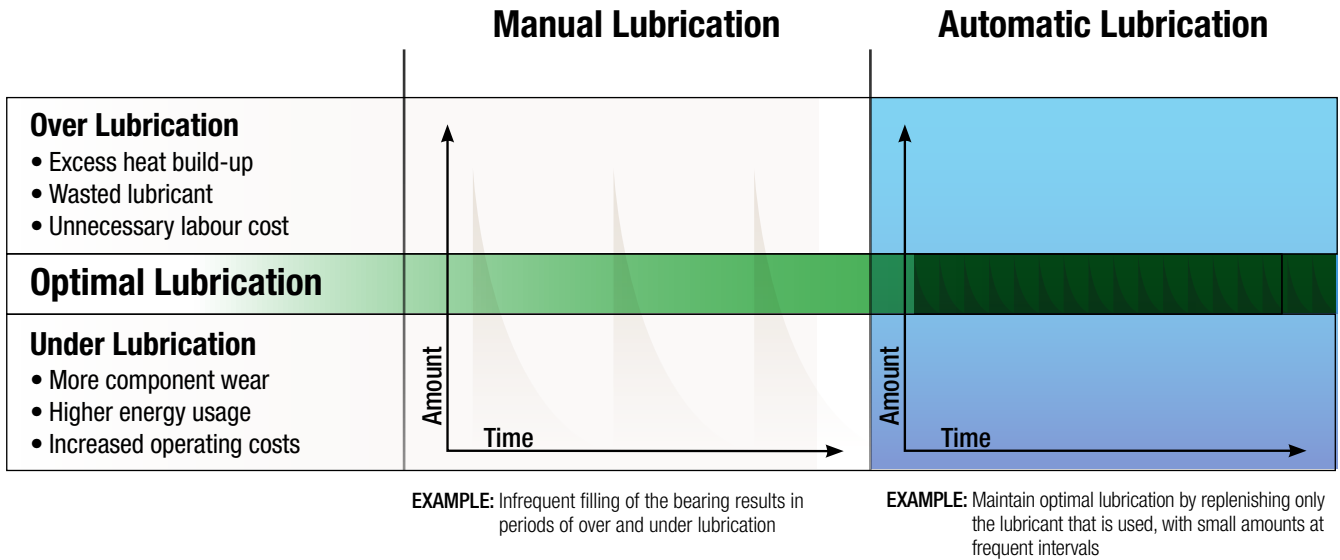


- Select and configure pumps, divider valves, fittings and accessories for centralized lubrication
- Dependable solution for versatile industrial applications or mobile equipment
- G-Series Pumps
- Compact Series Progressive (CSP) divider valves
- Modular Series Progressive (MSP) divider valves

# Centralized Lubrication

Graco’s automatic lubrication solutions ensure that your machinery is lubricated when its needed most – while it’s working. In order to avoid friction that cause severe wear and tear to your machine tool, production and press equipment, our line of centralized lubrication systems is delivering precise amounts of lubricants at frequent intervals to every lube point – even if they are hard to reach.

**Choose automatic lubrication and bid fare wall to risks and other challenges related to manual lubrication:**



## Series Progressive Automatic Lubrication

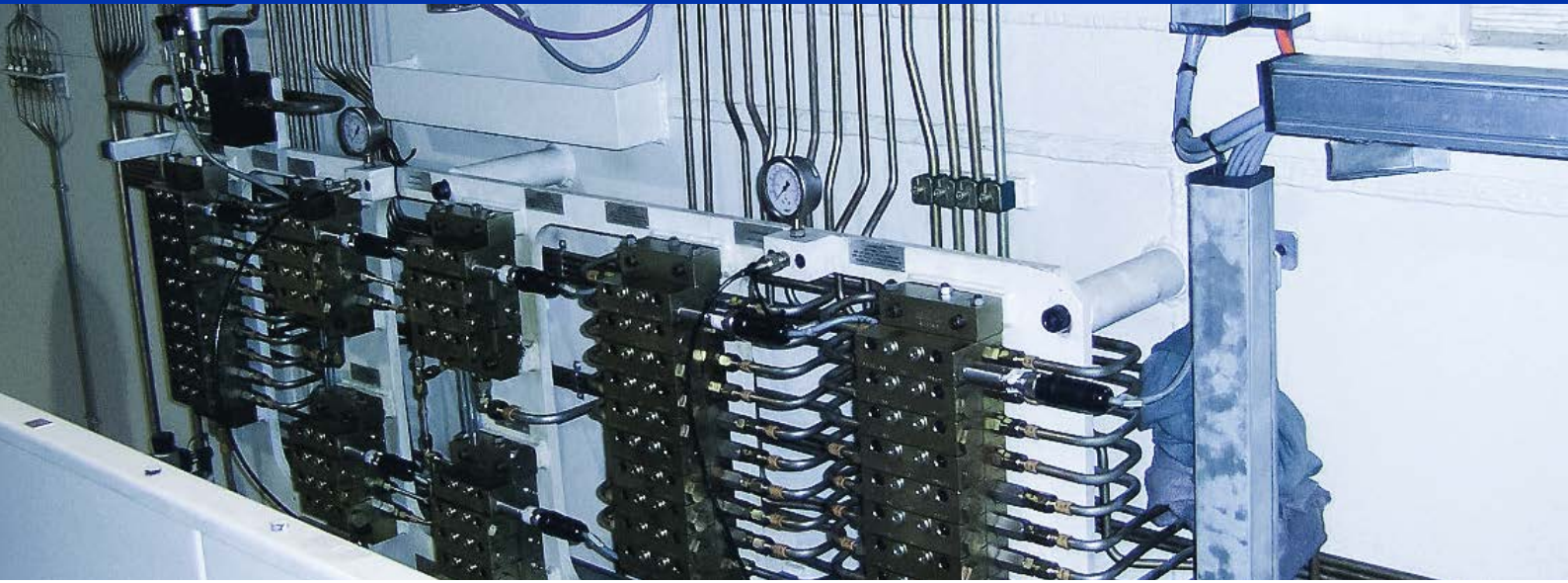
Automatic lubrication systems lubricate multiple points from a single centralized system. There are many possible configurations, such as single line parallel, series progressive, dual line, multi-line, etc.

In a **series progressive system**, a pump supplies the lubricant through a master metering valve and optional secondary metering valves to the lubrication points. The metering valves are custom sized for each lubrication point to deliver the required amount of lube.

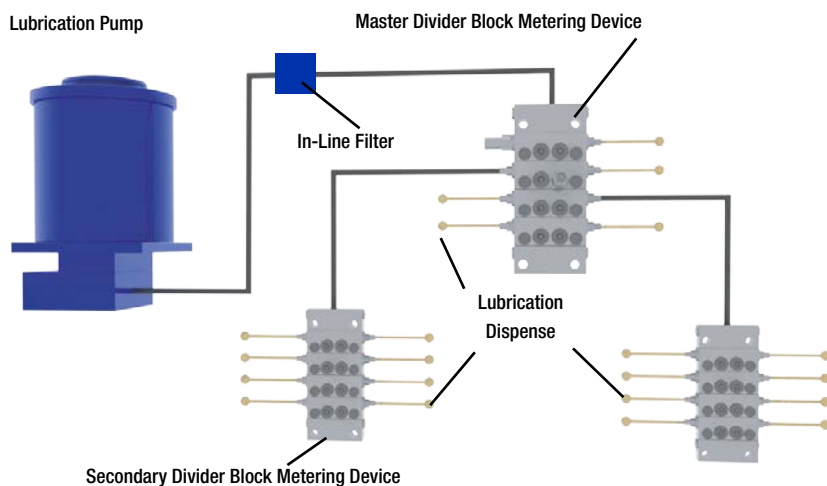
### Benefits



# Series Progressive Automatic Lubrication Systems



## Components of a Series Progressive Automatic Lubrication System



### **PUMP & RESERVOIRS:**

store and provide the lubricant to the system

### **CONTROLLER:**

activates the system

### **DIVIDERS:**

dispenses the right amount of lubricant to the lubrication point.

## How it works

As the lubricant flows from the pump through the passages of each divider block, the metering pistons move to one side in sequence from inlet to end, each time “dosing ” the precise amount of oil or grease required at the lube point.

## Applications

There are many applications and industries where Graco’s series progressive automatic lubrication systems have proven to be the dependable choice, like;

- ▶ In-plant manufacturing
- ▶ Wind energy
- ▶ Mobile equipment used on- or off-road

You can also consult our complimentary brochure: **Automatic Lubrication Solutions - Single line parallel system selector guide (300763ENEU)** for more heavy-duty applications.



# Dependable Equipment for multiple applications

## G-3 Pump

### Multiple Reservoir Sizes

Choice of 2, 4, 8, 12, or 16 litre U.V.-resistant, high-impact reservoirs for oil and grease to meet the needs of your equipment

### Power Choices

Connect to DC (12V or 24V) and AC (90-240V) power sources with CPC or DIN-style connectors for easy, no hassle installations

### Multiple Controller and Pump Options


Extensive choices within the G-Series Pump family to satisfy your application requirements.

### Reliable Pressure

Maximum working pressure of 352 bar (5100 psi) using grease up to NLGI2.



## Compact Series Progressive (CSP) divider valves



**1/8" NPT or BSPP Inlet**

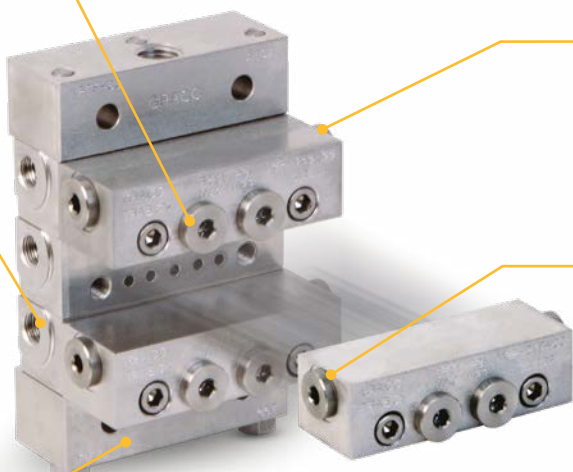
**Built-in Durability**  
Zinc iron plating stands up to harsh environments

**Variety of Configurations**  
6-22 outlets, available with or without indicators

**High Output Pressure**  
Maximum working pressure of 350 bar (5,076 psi)

**Output to Meet Your Needs**  
0.2 cc (0.012 in<sup>3</sup>)/stroke output with the ability to double-up outlets if greater output is required.

## Modular Series Progressive (MSP) divider valves



**Alternate Outlet/Monitoring**  
Face of valves can be fitted with optional performance indicators, taking the guesswork out of troubleshooting.

**Intelligent Feedback**  
Can be easily accessorized with electronic proximity switches to provide positive assurance of a successful lube event.

**Quick Change Valve Sections**  
Quick change valve sections can be removed from the base assembly without disturbing any lube lines—minimizing labour cost and maximizing your machine uptime.

**Built-in Check Valve**  
Outlet checks ensure accurate lube delivery, every time.

**Precision Performance**  
Manufactured in our factory for quality and reliability. Each assembly is honed and match-fitted for precise lube delivery every time.

# System Design Selector for G-Series & Dividers



## Reliable G-Series Pump

Select the Graco G-Series Pump which suits your power, feedback, and fluid capacity requirements.



Select the Pressure Relief Valve & Relief Valve Outlet Fittings



Select the CSP Divider Valve



Select the Divider Valve INLET Fittings



**1**

## Select the G-Series pump model

For a complete list of available pump models, please refer to the Industrial Lubrication Buyer's guide on [www.graco.com](http://www.graco.com)

**2**

## Select the Pressure Relief Valve & Relief Valve Outlet Fittings

	PRESSURE RELIEF VALVE	RELIEF VALVE OUTLET FITTINGS				
1/4" BSP	26C176	<table border="1"> <tr> <td>Compression</td> <td>17R571 6 mm, Straight OR 17R572 6 mm, Elbow</td> </tr> <tr> <td>G-Lock Push-To-Connect</td> <td>17R569 6 mm, Straight</td> </tr> </table>	Compression	17R571 6 mm, Straight OR 17R572 6 mm, Elbow	G-Lock Push-To-Connect	17R569 6 mm, Straight
Compression	17R571 6 mm, Straight OR 17R572 6 mm, Elbow					
G-Lock Push-To-Connect	17R569 6 mm, Straight					
1/8" NPT	26C030	<table border="1"> <tr> <td>Compression</td> <td>17T780 6 mm, Straight OR 17T781 6 mm, Elbow</td> </tr> </table>	Compression	17T780 6 mm, Straight OR 17T781 6 mm, Elbow		
Compression	17T780 6 mm, Straight OR 17T781 6 mm, Elbow					

**3**

## Select the CSP Divider Valve

# of outlets	Indicator Pin ?	THREAD SIZE		# of outlets	Indicator Pin ?	THREAD SIZE	
		1/8" NPT	1/8" BSPP			1/8" NPT	1/8" BSPP
6	NO	24Z486	24Z477	16	NO	24Z491	24Z482
	YES	24Z504	24Z495		YES	24Z509	24Z500
8	NO	24Z487	24Z478	18	NO	24Z492	24Z483
	YES	24Z505	24Z496		YES	24Z510	24Z501
10	NO	24Z488	24Z479	20	NO	24Z493	24Z484
	YES	24Z506	24Z497		YES	24Z511	24Z502
12	NO	24Z489	24Z480	22	NO	24Z494	24Z485
	YES	24Z507	24Z498		YES	24Z512	24Z503
14	NO	24Z490	24Z481				
	YES	24Z508	24Z499				

**4**

## Select the Divider Valve INLET Fittings

1/8" BSPP Valve	<table border="1"> <tr> <td>Compression</td> <td>17L548 6 mm, Straight OR 17L546 6 mm, Elbow</td> </tr> <tr> <td>G-Lock Push-To-Connect</td> <td>17L545 6 mm, Straight OR 17L449 6 mm, Elbow</td> </tr> </table>	Compression	17L548 6 mm, Straight OR 17L546 6 mm, Elbow	G-Lock Push-To-Connect	17L545 6 mm, Straight OR 17L449 6 mm, Elbow
Compression	17L548 6 mm, Straight OR 17L546 6 mm, Elbow				
G-Lock Push-To-Connect	17L545 6 mm, Straight OR 17L449 6 mm, Elbow				
1/8" NPT Valve	<table border="1"> <tr> <td>Compression</td> <td>17T780 6 mm, Straight OR 17T781 6 mm, Elbow</td> </tr> </table>	Compression	17T780 6 mm, Straight OR 17T781 6 mm, Elbow		
Compression	17T780 6 mm, Straight OR 17T781 6 mm, Elbow				

# SYSTEM DESIGN SELECTOR FOR CSP



Select the Main Line HP Hose



Select the Divider Valve OUTLET Fittings



Select the Secondary Line HP Hose or Nylon Tube



Select the LUBE POINT Fitting

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5

## Select the Main Line (from Pump to CSP Divider Valve)

Hose Studs (compression OR PTC)		Hose Sleeve 17L648	HP Hose (8.6mm OD)		Hose Sleeve 17L648	Hose Studs	
Compression	17R565 6 mm, Straight OR 17R566 6 mm, Elbow 17L649 6 mm, Straight OR 17L650 6 mm, Elbow		17S552 25 m OR 17S553 50 m OR 17S554 100 m OR 17S555 200 m	Compression		17R565 6 mm, Straight OR 17R566 6 mm, Elbow 17L649 6 mm, Straight OR 17L650 6 mm, Elbow	
G-Lock Push-To-Connect			G-Lock Push-To-Connect				

6

## Select the Divider Valve OUTLET Fittings

Compression	17L550 6 mm X M10
G-Lock Push-To-Connect	17L458 6 mm X M10
<b>Nylon Tube only</b>	17L543 6 mm X M10

7

## Select the Secondary Line (from CSP Divider Valve to Lube Point)

HIGH PRESSURE HOSE							
Hose Studs		Hose Sleeve 17L648	HP Hose (8.6mm OD)		Hose Sleeve 17L648	Hose Studs	
Compression	17R565 6 mm, Straight OR 17R566 6 mm, Elbow 17L649 6 mm, Straight OR 17L650 6 mm, Elbow		17S552 25 m OR 17S553 50 m OR 17S554 100 m OR 17S555 200 m	Compression		17R565 6 mm, Straight OR 17R566 6 mm, Elbow 17L649 6 mm, Straight OR 17L650 6 mm, Elbow	
G-Lock Push-To-Connect			G-Lock Push-To-Connect				

NYLON TUBE (6 mm)							
17S556 6 mm x 25m	OR	17S557 6 mm x 50m	OR	17S558 6 mm x 100m	OR	17S559 6 mm x 200m	

8

## Select the LUBE POINT Fittings

Thread size	COMPRESSION		G-LOCK PUSH-TO-CONNECT	
	Straight	Elbow	Straight	Elbow
6 mm X M6	17R573	17R574	17L457	17L448
6 mm X M8	17R575	17R576	17L456	17L447
6 mm X M10	17R577	17R578	17L455	17L446
6 mm X 1/4" BSP	17R571	17R572	17R569	-
6 mm X 1/8" BSP	17L548	17L546	17L545	17L449

# System Design Selector for G Series & Dividers

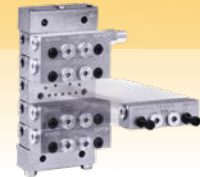


## Reliable G-Series Pump

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Select the Pressure Relief Valve & Relief Valve Outlet Fittings



Select the MSP Divider Valve



**1**

## Select the G-Series pump model

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**2**

## Select the Pressure Relief Valve & Relief Valve Outlet Fittings

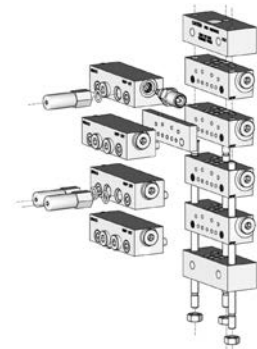
	PRESSURE RELIEF VALVE	RELIEF VALVE OUTLET FITTINGS				
1/4" BSP	26C176	<table border="1"> <tr> <td>Compression</td> <td>17R571 6 mm, Straight <b>OR</b> 17R572 6 mm, Elbow</td> </tr> <tr> <td>G-Lock Push-To-Connect</td> <td>17R569 6 mm, Straight</td> </tr> </table>	Compression	17R571 6 mm, Straight <b>OR</b> 17R572 6 mm, Elbow	G-Lock Push-To-Connect	17R569 6 mm, Straight
Compression	17R571 6 mm, Straight <b>OR</b> 17R572 6 mm, Elbow					
G-Lock Push-To-Connect	17R569 6 mm, Straight					
1/8" NPT	26C030	<table border="1"> <tr> <td>Compression</td> <td>17T780 6 mm, Straight <b>OR</b> 17T781 6 mm, Elbow</td> </tr> </table>	Compression	17T780 6 mm, Straight <b>OR</b> 17T781 6 mm, Elbow		
Compression	17T780 6 mm, Straight <b>OR</b> 17T781 6 mm, Elbow					

**3**

## Select the MSP Divider Valve

### A. Select the MSP Base Plates

PRE-CONFIGURED & TESTED	Max. Number of Outlets	Number of Valve Sections	Model Number	
			NPSF	BSPP
Includes : inlets, intermediate base plate sections, end section, tie rods and nuts.	6	3	24G485	24N915
	8	4	24G486	24N916
	10	5	24G487	24N917
	12	6	24G488	24N918
	14	7	24G489	24N919
	16	8	24G490	24N920



BUILD YOUR OWN	Component	Description	Model Number			Note
			NPSF	BSPP	SAE	
	Intermediate base plate	Single section	563425	563447	563451	Must be ordered in multiples of 5
	Inlet options - Additional speciality inlets available	Standard	560919	560936	560943	
		With bleed ports	563421		563422	
	End section options	Standard		563424		3 Tie Rods and Tie Rod Nuts required for Assembly
		With alternate inlet port plug		563279		
	Tie Rods (3 required)	3-section		557731		
		4-section		557732		
		5-section		557733		
		6-section		557734		
		7-section		557735		
		8-section		557736		
		9-section		557738		
		10-section		557739		
	11-section		557740			
Tie Rod Nuts (3 required)	Tie Rod Nuts		556371			



## SYSTEM DESIGN SELECTOR FOR MSP



Select the MSP  
Divider Valve



Select the Divider Valve  
INLET Fittings

3

4

### B. Select the MSP Working Sections (must be ordered in multiples of 5)

Outlet	Description	Output per Outlet in <sup>3</sup> (cm <sup>3</sup> )	Model Number		
			Standard Section	With Cycle Pin - Right	With Cycle Pin - Left
Single	MSP-5S	0.010 (0.16)	562711	N/A	
	MSP-10S	0.020 (0.33)	562712		
	MSP-15S	0.030 (0.49)	562713		
	MSP-20S	0.040 (0.66)	562714	562729	562734
	MSP-25S	0.050 (0.82)	562715	562730	562735
	MSP-30S	0.060 (0.98)	562716	562731	562736
	MSP-35S	0.070 (1.15)	562717	562732	562737
	MSP-40S	0.080 (1.31)	562718	562733	562738
Twin	MSP-5T	0.005 (0.08)	562720	N/A	
	MSP-10T	0.010 (0.16)	562721		
	MSP-15T	0.015 (0.26)	562722		
	MSP-20T	0.020 (0.33)	562723	562739	562744
	MSP-25T	0.025 (0.41)	562724	562740	562745
	MSP-30T	0.030 (0.49)	562725	562741	562746
	MSP-35T	0.035 (0.57)	562726	562742	562747
	MSP-40T	0.040 (0.66)	562727	562743	562748

### C. Select Optional Components

Component	Description	Model Number	Note
Crossport Bar	Right	563469	1 outlet port plug is required for each crossport bar
	Left	563470	
	Right + Left	563471	2 outlet port plugs are required for each double crossport bar
Bypass Block	MSP Bypass Section	562660	
Outlet Port Plugs	For 1/8" BSP	558799	
	For 1/8" NPT	557349	

Please refer to the ILE Buyer's guide (P/N 340821, page 68) to check all of the optional Performance Indicators.

4

### Select the Divider Valve INLET Fittings

1/4" BSP  
Base Plate

1/4" NPSF  
Base Plate

Compression

17R571 6 mm, Straight

OR

17R572 6 mm, Elbow

G-Lock Push-To-Connect

17R569 6 mm, Straight

Compression

17T782 6 mm, Straight

OR

17T783 6 mm, Elbow

See next page

5

# System Design Selector for G Series & Dividers



Select the Main Line  
HP Hose



Select the Divider Valve  
OUTLET Fittings

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## Select the Main Line (from Pump to MSP Divider Valve)

Hose Studs (compression OR PTC)		Hose Sleeve  17L648	HP Hose (8.6mm OD)		Hose Sleeve  17L648	Hose Studs		
Compression	17R565 6 mm, Straight		17L648	17S552 25 m		17L648	17L648	Compression
	OR	17S553 50 m		OR	17R566 6 mm, Elbow			
G-Lock Push-To-Connect	17L649 6 mm, Straight	OR		17S554 100 m	17L648	G-Lock Push-To-Connect	17L649 6 mm, Straight	
	OR	17S555 200 m		OR			OR	17L650 6 mm, Elbow
	17L650 6 mm, Elbow							

6

## Select the Divider Valve OUTLET Fittings

1/8" BSP Base Plate	Compression	17L548 6 mm, Straight
		OR
1/8" NPSF Base Plate	G-Lock Push-To-Connect	17L546 6 mm, Elbow
		OR
	Compression	17L545 6 mm, Straight
		OR
		17L449 6 mm, Elbow
		OR
		17T780 6 mm, Straight
		OR
		17T781 6 mm, Elbow

7

## Select the Secondary Line (from MSP Divider Valve to Lube Point)

HIGH PRESSURE HOSE								
Hose Studs		Hose Sleeve  17L648	HP Hose (8.6mm OD)		Hose Sleeve  17L648	Hose Studs		
Compression	17R565 6 mm, Straight		17L648	17S552 25 m		17L648	17L648	Compression
	OR	17S553 50 m		OR	17R566 6 mm, Elbow			
G-Lock Push-To-Connect	17L649 6 mm, Straight	OR		17S554 100 m	17L648	G-Lock Push-To-Connect	17L649 6 mm, Straight	
	OR	17S555 200 m		OR			OR	17L650 6 mm, Elbow
	17L650 6 mm, Elbow							

NYLON TUBE (6 mm)							
17S556 6 mm x 25 m	OR	17S557 6 mm x 50 m	OR	17S558 6 mm x 100m	OR	17S559 6 mm x 200m	

# SYSTEM DESIGN SELECTOR FOR MSP



Select the Secondary Line  
HP Hose or Nylon Tube



Select the  
LUBE POINT Fitting

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8

## Select the LUBE POINT Fittings

Thread size	COMPRESSION		G-LOCK PUSH-TO-CONNECT	
	Straight	Elbow	Straight	Elbow
6 mm X M6	17R573	17R574	17L457	17L448
6 mm X M8	17R575	17R576	17L456	17L447
6 mm X M10	17R577	17R578	17L455	17L446
6 mm X 1/4" BSP	17R571	17R572	17R569	-
6 mm X 1/8" BSP	17L548	17L546	17L545	17L449



# Technical Specifications

## Graco G3 SP Pump

The G3 SP (Series Progressive) combines the robust, proven design of our G-Series pumps with simple programming and valuable system feedback. The only programming requirements are number of cycles and off time between lube events.

VOLTAGE	RESERVOIR SIZE			
	2 L	4 L	8 L	12 L
12 VDC	96G221	96G222	–	–
24 VDC	96G223	96G224	96G225	96G226
90-240 VAC	96G227	96G228	–	–

Please note that G3 SP pumps are for use in Series Progressive systems only and they require a proximity switch.

## Pump Re-Fill options:

### OPTION 1 Re-fill via Grease Zerk



562857

Standard option on all G-Series Pumps

Use standard grease gun (Item #562857) to fill the reservoir

### OPTION 2a Re-fill via High Capacity Fill Zerk (#24M644)



24M644

\* Order Item #24M644 (1/4" NPT), and use instead of grease zerk or the 2 alternative ports



121474

\* Use together with female coupler Item #121474, OR with any other coupler that conforms to ISO 7241-1 Series B

### OPTION 2b Re-fill via High Capacity Fill Zerk (#247886)



247886

\* Order the manual fill pump (Item #247886)

\* Female coupler #121474 already included in the manual fill pump package

### OPTION 2c Re-fill via Manual Hand Pump



571162

\* Order Item #571162

\* Screws directly into the pump element port:  
 - remove the unused G3 pump element plug  
 - insert the grease fill pump into the port



# Accessories

## Fittings and Accessories Overview

For a complete list of Pumps, Pressure Reliefs, Valves, Hoses, Tubes, Fittings, Adapters, and Accessories, go to the Graco Industrial Lubrication Equipment Buyer's Guide at [www.graco.com](http://www.graco.com).

### Pressure Relief Valve & Relief Valve Outlet Fittings

PART NUMBER	DESCRIPTION
<b>26C176</b>	Kit, Relief Valve and Fittings, BSP
<b>26C030</b>	Kit, Relief Valve and Fittings, NPT
<b>17R569</b>	Fitting, PTC, Straight, 6 mm X 1/4", BSP
<b>17R571</b>	Fitting, Compression, Straight, 6 mm X 1/4", BSP
<b>17R572</b>	Fitting, Compression, Elbow, 6 mm X 1/4", BSP
<b>17T780</b>	Fitting, Compression, Straight, 6 mm X 1/8" NPT
<b>17T781</b>	Fitting, Compression, Elbow, 6 mm X 1/8" NPT
<b>17T782</b>	Fitting, Compression, Straight, 6 mm X 1/4" NPT
<b>17T783</b>	Fitting, Compression, Elbow, 6 mm X 1/4" NPT



### HP Hose, Nylon Tube & Mounting Accessories

PART NUMBER	DESCRIPTION
<b>17S552</b>	HP Hose, 8.6 mm OD, 25 m
<b>17S553</b>	HP Hose, 8.6 mm OD, 50 m
<b>17S554</b>	HP Hose, 8.6 mm OD, 100 m
<b>17S555</b>	HP Hose, 8.6 mm OD, 200 m
<b>17S556</b>	Nylon tube, 6 mm X 25 m
<b>17S557</b>	Nylon tube, 6 mm X 50 m
<b>17S558</b>	Nylon tube, 6 mm X 100 m
<b>17S559</b>	Nylon tube, 6 mm X 200 m
<b>17L648</b>	Sleeve, Hose
<b>17L649</b>	Stud, Straight, 6 mm, G-Lock Push-To-Connect
<b>17L650</b>	Stud, Elbow, 6 mm, G-Lock Push-To-Connect
<b>17R565</b>	Stud, Straight, 6 mm, Compression
<b>17R566</b>	Stud, Elbow, 6 mm, Compression



# Accessories

## CSP Outlet Fittings

PART NUMBER	DESCRIPTION
17L550	Fitting, Compression, 6 mm X M10
17L458	Fitting, PTC, 6 mm X M10
17L543	Fitting, PTC, CSP Outlet, 6 mm X M10 - <b>Nylon Tube only</b>
17L651	Plug, Doubling, M10 X 1 - <b>FOR CSP</b>

## MSP Outlet Fittings

PART NUMBER	DESCRIPTION
17L548	Fitting, Compression, Straight, 6 mm X 1/8" BSP
17L546	Fitting, Compression, Elbow, 6 mm X 1/8" BSP
17L545	Fitting, G-Lock Push-To-Connect, Straight, 6 mm X 1/8" BSP
17L449	Fitting, G-Lock Push-To-Connect, Elbow, 6 mm X 1/8" BSP
17T780	Fitting, Compression, Straight, 6 mm X 1/8" NPT
17T781	Fitting, Compression, Elbow, 6 mm X 1/8" NPT

## Optional Accessories

PART NUMBER	DESCRIPTION
<b>Power Cables</b>	
124333	M12 Cable, Male & Female, 4.88 m
126331	Harness, Wiring, M12(F) to bare Wire, 5 m (requires 124594)
124594	M12 4-Pin Male Connector for 6-8 mm Cable
24Z719	Cable, M12 to 4 Pin, PNP
24Z720	Kit, M12 Cable with LED & Flying Leads, PNP (requires 124594)
25M604	Cable, M12 with LED to flying leads, PNP, Straight - for PLC
25M602	Cable, M12 with LED to flying leads, NPN, Straight - for G3
25M603	Cable, M12 with LED to M12, NPN, Straight - for G3



### Proximity Switches & Indicators

17L879	Switch, Proximity, M11 - <b>FOR CSP</b>
17L983	Switch, Proximity, 7/16-20 - <b>FOR MSP</b>
563251	Magnetic Visual Cycle Indicator - <b>FOR MSP</b>

### Weld Stud Accessories

26A478	Kit, Stud, Weld - <b>FOR CSP</b>
26A479	Kit, Plate, Weld - <b>FOR CSP</b>
563465	Weld bar kit - <b>FOR MSP</b>

# More information

## Additional Automatic Lubrication Solutions tools and brochures to compliment your activities:

### Selector Tool

Online tool to easily find out which automatic lubrication set is compatible with different heavy-duty equipment. Select equipment specifications in the menu and the tool will returns an all-inclusive kit with a pump and a valve package part number along with a downloadable manual.



[www.graco.com/gb/en/products/ad/yellow-iron-kit-selector.html](http://www.graco.com/gb/en/products/ad/yellow-iron-kit-selector.html)

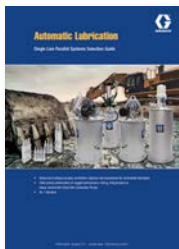
### Literature



#### Lubrication Solutions

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▶ 300742ENEU



#### Automatic Lubrication

Single Line Parallel Systems Selection Guide

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▶ 3000763ENEU



#### ILE Buyers Guide

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## ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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Graco is certified ISO 9001.



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