



EDDINGTON
INDUSTRIES, LLC

WATER TREATMENT SERVICES PRODUCT CATALOG





**EDDINGTON
INDUSTRIES, LLC**

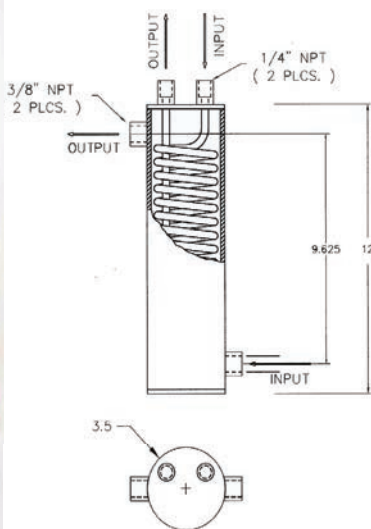
WATER TREATMENT SERVICES CATALOG INDEX

SAMPLE COOLER ESC-SS.....	2
SAMPLE COOLER SC-316.....	3
SAMPLE COOLER ESC-CS-RC.....	4
QCC INJECTION QUILL ASSEMBLY.....	5
QB & QC SERIES INJECTION QUILLS.....	6
QBFM & QCFM SERIES INJECTION QUILLS.....	7
CHECK VALVES WITH RUBBER SEAT	8
CVFM CHECK VALVES (<i>NEW PRODUCT</i>).....	9
CSPV CORPORATION STOPS.....	10
CORPORATION STOPS.....	11
CORPORATION STOPS WITH INJECTION SAFETY CHAIN.....	12
DUPLEX INJECTION QUILLS.....	13
RETRACTABLE 3 PORT INJECTION QUILLS.....	14
3 & 4 PORT INJECTION QUILLS.....	15
RETRACTABLE INJECTION QUILLS.....	16
EDDINGTON INDUSTRIES BACK PRESSURE VALVE.....	17
COUPON RACKS (SERIES 2000).....	18
COUPON RACKS (SERIES 4000).....	19
CORROSION COUPON RACK KIT	20
CORROSION TEST COUPONS.....	21
TEST COUPON HOLDER.....	22
RETRACTABLE TEST COUPON HOLDER.....	23
THREADED ORIFICE UNIONS.....	24
GLYCOL FEEDER GL-50-E.....	25
EMBRITTEMENT DETECTOR.....	26
FLOW REGULATORS.....	27
STEAM SAMPLING NOZZLE.....	29



SAMPLE COOLER ESC-SS

PRODUCT DATA SHEET



PURPOSE

To cool hot water or steam samples for easy handling and effective sample collection. The Eddington Industries Sample Cooler is suitable for use on hot water, saturated steam, or superheated steam services.

FEATURES

- Rugged all-welded construction
- Heat exchange area - one sq. ft.
- 316 Stainless Steel coil

SPECIFICATIONS

Coil Material	Shell & End Plate Material	Coil Pressure	Shell Pressure	Coil Pressure Drop	Shell Pressure Drop
316 SS, ASTM A249	Shell 304 SS, ASTM A312	2250 PSIG @ 750°F	250 PSIG @ 250°F	2 PSIG @ 500 CCM	3 PSIG @ 3 GPM
	Ends 304 SS, ASTM SA240	2500 PSIG @ 500°F		8 PSIG @ 1000 CCM	8.5 PSIG @ 5 GPM
		3000 PSIG @ 250°F		20 PSIG @ 1500 CCM	

Pressure drop above is for flowing samples of water (not steam).

PERFORMANCE

Cooling water flow: 3 to 5 GPM

Hot Water Samples

Approach Temperature

Sample Flow (CCM)	Sample Inlet Temperature (°F)			
	200°F	400°F	600°F	700°F
500	2	4	6	7
1000	8	23	38	65
1500	20	55		

Saturated Steam Samples

Approach Temperature

Sample Flow (CCM)	Sample Inlet Temperature (°F)				
	150 PSIA @ 358°F	250 PSIA @ 401°F	500 PSIA @ 467°F	750 PSIA @ 511°F	1000 PSIA @ 545°F
500	70	55	37	28	22
1000			113	95	80

Superheated Steam Samples

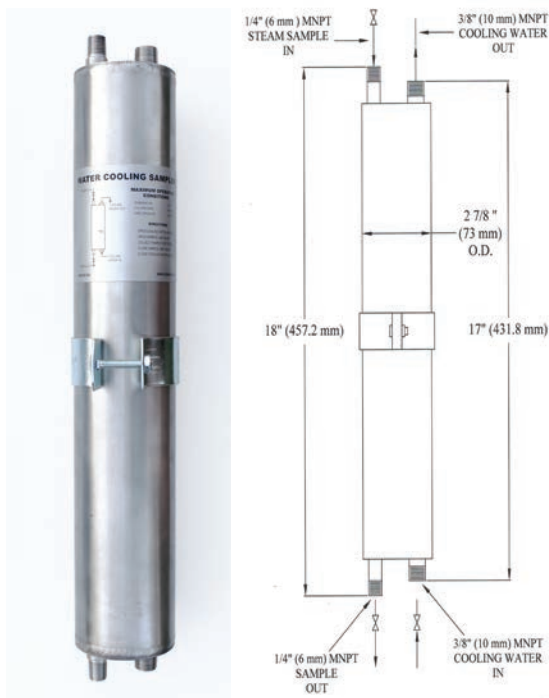
Approach Temperature

Sample Flow (CCM)	Sample Inlet Temperature (°F) 1000 PSIA @ 750°F
500	39

- Approach temperature is added to the cooling water inlet temperature to obtain sample outlet temperature.
- Numbers given above vary with steam quality and are approximate.
- Increasing cooling water flow will reduce cooling water outlet temperature.
- Steam samples are to be throttled on the discharge of the cooler.

SAMPLE COOLER SC-316

PRODUCT DATA SHEET



PURPOSE

To cool hot water or steam samples for easy handling and effective sample collection. The Eddington Industries Sample Cooler is suitable for use on hot water, saturated steam, or superheated steam services.

FEATURES

- Rugged all-welded construction
- Internal baffles to insure maximum heat transfer
- Heat exchange area - one sq. ft.
- Design ratings of sample tubing - 3500psi at 750°F
- Design ratings of shell - 300psi at 250°F
- All 316 Stainless Steel construction

Coil Material	Shell Material	Coil Pressure	Shell Pressure	Coil Pressure Drop	Shell Pressure Drop
316 SS, ASTM A249	316 SS, ASTM SA312	3500 PSIG @ 750°F	300 PSIG @ 250°F	2 PSIG @ 500 CCM	3 PSIG @ 3 GPM
				8 PSIG @ 1000 CCM	8.5 PSIG @ 5 GPM
				20 PSIG @ 1500 CCM	

Pressure drop above is for flowing samples of water (not steam).

PERFORMANCE

Cooling water flow: 3 to 5 GPM

Hot Water Samples Approach Temperature

Sample Flow (CCM)	Sample Inlet Temperature (°F)			
	200°F	400°F	600°F	700°F
500	2	4	6	7
1000	8	23	38	65
1500	20	55		

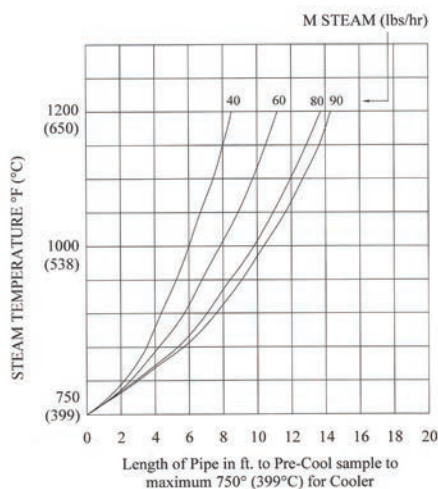
Saturated Steam Samples Approach Temperature

Sample Flow (CCM)	Sample Inlet Temperature (°F)				
	150 PSIA @ 358°F	250 PSIA @ 401°F	500 PSIA @ 467°F	750 PSIA @ 511°F	1000 PSIA @ 545°F
500	70	55	37	28	22
1000			113	95	80

Superheated Steam Samples Approach Temperature

Sample Flow (CCM)	Sample Inlet Temperature (°F) 1000 PSIA @ 750°F
500	39

- Approach temperature is added to the cooling water inlet temperature to obtain sample outlet temperature.
- Numbers given above vary with steam quality and are approximate.
- Increasing cooling water flow will reduce cooling water outlet temperature.
- Steam samples are to be throttled on the discharge of the cooler.
- For superheated samples over 750°F, leaving a portion of the tubing run to the cooler from the source uninsulated typically will reduce the temperature sufficiently to the max 750°F. See the graph showing a general guideline for minimum exposed pipe/tube needed.



HOT WATER SAMPLING - OPERATION

1. Open the cooling water inlet valve first.
2. Open the sample inlet valve and gradually open the sample outlet valve to regulate the flow to achieve a cooled sample.
3. Allow the sample to run for a while before collection.
4. When enough liquid has been collected close the sample inlet first, and then the cooling water inlet valve.

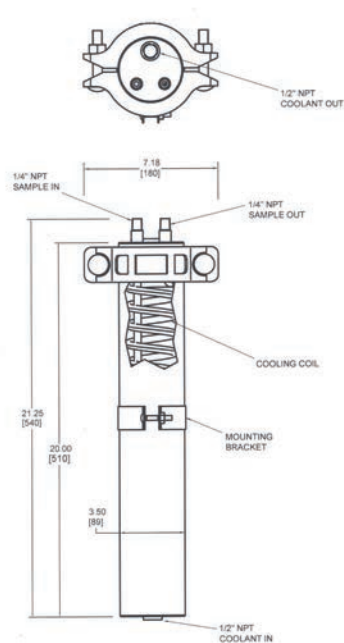
Superheated Steam Sampling

The chart referenced can be used as a guide on how to dissipate temperature to produce a useable superheated steam sample.



SAMPLE COOLER ESC-CS-RC

PRODUCT DATA SHEET



PURPOSE

To cool hot water or steam samples for easy handling and effective sample collection. The Eddington Industries Sample Cooler is suitable for use on hot water or saturated steam services. The coil is removable allowing it to be cleaned.

FEATURES

- Rugged construction
- Removeable coil for cleaning
- Heat exchange area - one sq. ft.
- 316 Stainless Steel cooling coil

SPECIFICATIONS

Coil Material	Shell & End Plate Material	Coil Pressure	Shell Pressure	Coil Pressure Drop	Shell Pressure Drop
316 LSS, ASTM A269/A249	Shell CS ASTM A106, gr B	2250 PSIG @ 750°F	450 PSIG @ 250°F	2 PSIG @ 500 CCM	3 PSIG @ 3 GPM
	Ends CS ASTM A108, gr 1018	2500 PSIG @ 500°F		8 PSIG @ 1000 CCM	8.5 PSIG @ 5 GPM
		3000 PSIG @ 250°F		20 PSIG @ 1500 CCM	

Pressure drop above is for flowing samples of water (not steam).

PERFORMANCE

Cooling water flow: 3 to 5 GPM

Hot Water
Samples

Approach Temperature

Sample Flow (CCM)	Sample Inlet Temperature (°F)		
	200°F	400°F	600°F
500	2	4	38
1000	8	23	
1500	20	55	

Saturated Steam
Samples

Approach Temperature

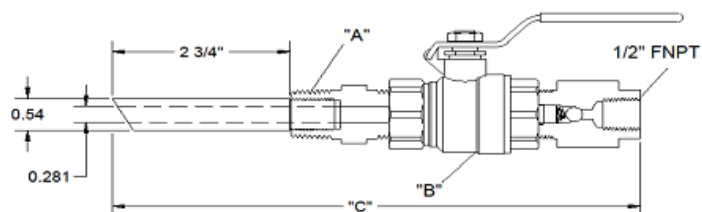
Sample Flow (CCM)	Sample Inlet Temperature (°F)				
	150 PSIA @ 358°F	250 PSIA @ 401°F	500 PSIA @ 467°F	750 PSIA @ 511°F	1000 PSIA @ 545°F
500	70	55	37	28	22
1000			113	95	80

Mounting Bracket Included
Dimensions: 26" x 6 1/2"
Weight: 21 1/2 pounds

- Approach temperature is added to the cooling water inlet temperature to obtain sample outlet temperature.
- Numbers given above vary with steam quality and are approximate.
- Increasing cooling water (CW) flow will reduce cooling water outlet temperature.
- Steam samples are to be throttled on the discharge of the cooler.
- Gasket materials: EPDM, max 250 F / Silicone, max 350 F
 - The gasket temperature is affected by the cooling water temperature, the sample temperature and the flow rates of both therefore the max sample inlet temperatures are not fixed.

QCC INJECTION QUILL ASSEMBLY

PRODUCT DATA SHEET



Depicted: QCC Series, 1/2" Injection Quill Assembly, 1/2" NPT, Type 316 SS

Part Number	Process Connection "A"	Pump Connection	Ball Valve "B"	Overall Length	Check Valve Material		Temperature	Maximum Pressure (psi)
					Ball	Spring		
QCC-050-316	1/2"	1/2"	1/2"	9"	316 SS	316 SS	475 °F (246 °C)	2000
QCC-075-316	3/4"	1/2"	3/4"	9 1/2"	316 SS	316 SS	475 °F (246 °C)	2000
QCC-100-316	1"	1/2"	1"	10 1/4"	316 SS	316 SS	475 °F (246 °C)	2000
QCC-050-PVC	1/2"	1/2"	1/2"	9 1/2"	Ceramic	Hastelloy	120°F (49 °C)	150
QCC-075-PVC	3/4"	1/2"	3/4"	10"	Ceramic	Hastelloy	120°F (49 °C)	150
QCC-100-PVC	1"	1/2"	1"	10 1/2"	Ceramic	Hastelloy	120°F (49 °C)	150
QCC-050-CPVC	1/2"	1/2"	1/2"	9 1/2"	Ceramic	Hastelloy	190°F (88 °C)	150
QCC-075-CPVC	3/4"	1/2"	3/4"	10"	Ceramic	Hastelloy	190°F (88 °C)	150
QCC-100-CPVC	1"	1/2"	1"	10 1/2"	Ceramic	Hastelloy	190°F (88 °C)	150
QCC-050-KY	1/2"	1/2"	1/2"	10 1/2"	Ceramic	Hastelloy	200°F (93.3°C)	150
QCC-075-KY	3/4"	1/2"	3/4"	11"	Ceramic	Hastelloy	200°F (93.3°C)	150
QCC-100-KY	1"	1/2"	1"	11 1/2"	Ceramic	Hastelloy	200°F (93.3°C)	150

FEATURES

Note: Unit comes assembled

*Standard Injection Quill length is 2 3/4" - custom Injection Quill lengths available

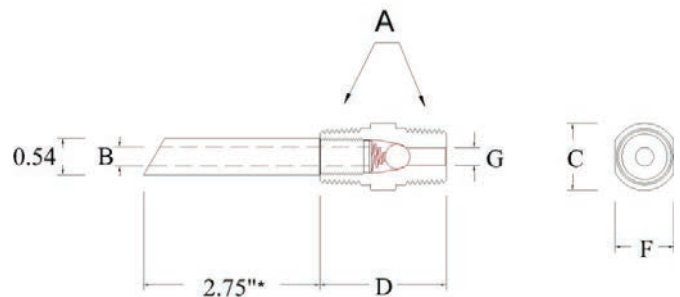
- Typical Application: used in applications where shutting down a system to maintain the metering pump and/or check valve is not an option.
- Every quill assembly comes standard with a 2 3/4" QB Injection Quill (no internal check), Ball Valve with Teflon Seals and our CVFM Check Valve (Ball and Spring).
- The Eddington QCC Injection Quill offers MNPT process connections X FNPT pump side connections.
- The QCC Injection Quill comes with an Eddington CVFM Ball Check Valve to prevent backflow through the nozzle and into the chemical feed line.
- We test all of our QCC Injection Quills for a crack pressure of less than 7 psi.
- There are two flat surfaces on the external portion of the injection nozzle so a wrench can be used during installation.
- Standard Injection Quill length is 2 3/4" but custom lengths up to 24" are available. For additional lengths please add the desired length after the part number (e.g. QCC-050-316-18).

Other materials and quill lengths available upon request.



QB & QC SERIES INJECTION QUILLS

PRODUCT DATA SHEET



QC Injection Quill is depicted above (QB Injection Quill comes without check valve)

A	B		C	D	F	G	
	SS & Alloys	Plastics				QB Series	QC Series
1/2" MNPT	.36"	.30"	1.00"	1.87"	.87"	.25"	.25"
3/4" MNPT	.36"	.30"	1.25"	2.00"	1.12"	.31"	.25"
1" MNPT	.36"	.30"	1.50"	3.00"	1.37"	.38"	.25"

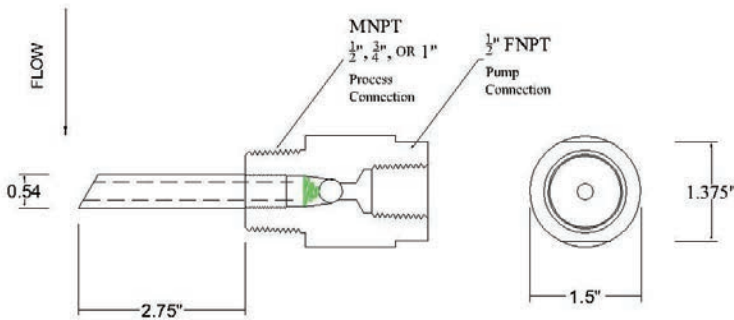
Standard Injection Quill length is 2 3/4" - Custom Injection Quill lengths up to 24"

- The Eddington QB & QC Series Injection Quills offer MNPT process connections X MNPT pump side connections. Stainless Steel and Alloy quills can be used for high temperature, high pressure applications.
- These Injection Quills are available in Type 316 Stainless Steel, PVC, Kynar, Alloy 20 and Hastelloy C276.
- The QC Injection Quill has a built-in ball check valve to prevent backflow through the nozzle and into the chemical feed line. The QB Injection Quill has no check valve.
- Crack pressure on the QC Injection Quill is less than 7 psi; if the pump cannot deliver enough pressure, then a QB Injection Quill may be appropriate.
- There are two flat surfaces on the external portion of the nozzle so a wrench can be used during installation.
- For additional lengths, please add the desired length after the part number. (e.g. QC-316-050-18) For 18" long quill.

Material	Part Number			Check Valve Material		Temperature and Pressure Rating	
	Process Connection Size (MNPT)			Ball	Spring	Max Temp	Max Press. (psi)
	1/2"	3/4"	1"				
Type 316 SS	QC-316-050	QC-316-075	QC-316-100	Type 316 SS	Type 316 SS	750°F (400°C)	3000
PVC	QC-PVC-050	QC-PVC-075	QC-PVC-100	Ceramic	HAST C	120°F (49°C)	150
CPVC	QC-CPVC-050	QC-CPVC-075	QC-CPVC-100	Ceramic	HAST C	190°F (88°C)	150
Kynar	QC-KY-050	QC-KY-075	QC-KY-100	Ceramic	HAST C	200°F (93.3°C)	150
Alloy 20	QC-C20-050	QC-C20-075	QC-C20-100	HAST C	HAST C	750°F (400°C)	3000
Hastelloy C 276	QC-Hastelloy-050	QC-Hastelloy-075	QC-Hastelloy-100	HAST C	HAST C	750°F (400°C)	3000
Type 316 SS	QB-316-050	QB-316-075	QB-316-100	No Check Valve		750°F (400°C)	3000
PVC	QB-PVC-050	QB-PVC-075	QB-PVC-100	No Check Valve		120°F (49°C)	150
CPVC	QB-CPVC-050	QB-CPVC-075	QB-CPVC-100	No Check Valve		190°F (88°C)	150
Kynar	QB-KY-050	QB-KY-075	QB-KY-100	No Check Valve		200°F (93.3°C)	150
Alloy 20	QB-C20-050	QB-C20-075	QB-C20-100	No Check Valve		750°F (400°C)	3000
Hastelloy C 276	QB-Hastelloy-050	QB-Hastelloy-075	QB-Hastelloy-100	No Check Valve		750°F (400°C)	3000

QBFM & QCFM SERIES INJECTION QUILLS

PRODUCT DATA SHEET



QCFM Model depicted above (QBFM comes without check valve)



- The Eddington QCBM & QCFM Injection Quills offer MNPT process connections and 1/2" FNPT pump side connections. Quills made from Type 316 Stainless Steel, Alloy 20, Hastelloy C276 can be used for high temperature, high pressure applications.
- We test all of our quills for a crack pressure of 10 psi. If the pump cannot deliver 10 psi then a QBFM injection quill may be appropriate.
- Quills are available in Type 316 Stainless Steel, PVC, Kynar, Alloy 20 and Hastelloy C276.
- The QCBM has no check valve and the QCFM Injection Quills have built-in ball check valves to prevent backflow through the nozzle and into the chemical feed line.
- There are two flat surfaces on the external portion of the nozzle so a wrench can be used during installation.
- Install Injection Quill with V notch facing into the flow for the most rapid dispersal of injected chemicals into the stream (see diagram above).
- Standard Injection Quill length is 2 3/4" but custom lengths up to 24" are available. For additional lengths, please add the desired length after the part number. (e.g. QCFM-316-050-18)

	Part Number			Check Valve Material		Temperature and Pressure Rating	
Material	Process Connection Size (MNPT)			Ball	Spring	Max Temp	Max Press. (psi)
	1/2"	3/4"	1"				
Type 316 SS	QCFM-316-050	QCFM-316-075	QCFM-316-100	316 SS	Type 316 SS	750°F (400°C)	3000
PVC	QCFM-PVC-050	QCFM-PVC-075	QCFM-PVC-100	Ceramic	HAST C	120°F (49°C)	150
CPVC	QCFM-CPVC-050	QCFM-CPVC-075	QCFM-CPVC-100	Ceramic	HAST C	190°F (88°C)	150
Kynar	QCFM-KY-050	QCFM-KY-075	QCFM-KY-100	Ceramic	HAST C	200°F (93.3°C)	150
Kynar w/ Teflon Check Valve	QCFM-KY-050-T	QCFM-KY-075-T	QCFM-KY-100-T	Teflon	HAST C	200°F (93.3°C)	150
Alloy 20	QCFM-C20-050	QCFM-C20-075	QCFM-C20-100	HAST C	HAST C	750°F (400°C)	3000
Hastelloy C 276	QCFM-Hastelloy-050	QCFM-Hastelloy-075	QCFM-Hastelloy-100	HAST C	HAST C	750°F (400°C)	3000
Type 316 SS	QBFM-316-050	QBFM-316-075	QBFM-316-100	No Check Valve		750°F (400°C)	3000
PVC	QBFM-PVC-050	QBFM-PVC-075	QBFM-PVC-100	No Check Valve		120°F (49°C)	150
CPVC	QBFM-CPVC-050	QBFM-CPVC-075	QBFM-CPVC-100	No Check Valve		190°F (88°C)	150
Kynar	QBFM-KY-050	QBFM-KY-075	QBFM-KY-100	No Check Valve		200°F (93.3°C)	150
Alloy 20	QBFM-C20-050	QBFM-C20-075	QBFM-C20-100	No Check Valve		750°F (400°C)	3000
Hastelloy C 276	QBFM-Hastelloy-050	QBFM-Hastelloy-075	QBFM-Hastelloy-100	No Check Valve		750°F (400°C)	3000



CHECK VALVES WITH RUBBER SEAT

PRODUCT DATA SHEET



FEATURES

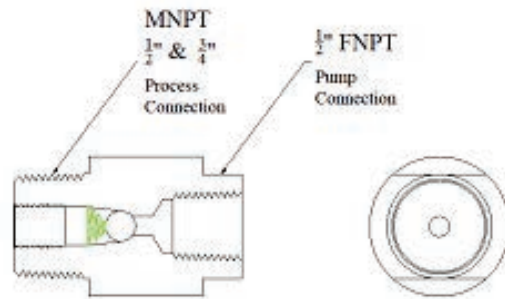
- Check Valves contain a seal which permits flow in one direction but seals against a seat when inlet flow ceases to prevent backflow which could cause damage to process equipment.
- Check Valves allow full pressure rating in the check direction.
- PVC, CPVC, and Kynar check valves contain a free floating ball that never seats in the same position twice.
- A variety of materials and sizes fill different temperature and pressure rating requirements.

	Part Number							
Body Material	Process Connection Size (FNPT)		Seals	Max Temp. Rating	Crack Pressure (psi)	Max Pressure (psi) at 70°F	List Price Per Piece	Discounted Price Per Piece
	1/4"	1/2"						
Type 316 SS	CV025SS		Viton	375°F	0.5-1	3000	\$69.50	\$41.70
Type 316 SS		CV050SS	Viton	375 °F	0.5-1	3000	\$163.00	\$97.80
PVC		CV050PVC	Viton	140 °F	1.5	235	\$92.00	\$55.20
CPVC		CV050CPVC	Viton	190°F	1.5	235	\$135.00	\$81.00
Kynar		CV050KY	Viton	250°F	1.5	150	\$283.00	\$169.80

Hastelloy and Alloy 20 Check Valves are also available upon request.

All check valves are available in different sizes.

To add a check valve to another product, please add the Check Valve part number to the end of the product number. (e.g. CS-075-PVC-CV050PVC or CS-075-316-SS-CV050SS)



FEATURES

- CVFM Check Valves contain a ball/spring check (no rubber seal) which permits flow in one direction but seals against a seat when inlet flow ceases to prevent backflow which could damage the process equipment.
- Stainless Steel CVFM Check Valves are made completely of Type 316 Stainless Steel which is ideal for use in caustic and amine applications.
- CVFM Check Valves have a 1/2" female pump connection with a male process connection to allow for assembly without the need of additional connectors.
- We test all Check Valves for a crack pressure of 10 psi.
- All components are manufactured and assembled by Eddington Industries, LLC.
- A variety of materials and sizes fill different temperature and pressure rating requirements.

Body Material	Part Number						
	Process Connection Size (MNPT)		Ball	Spring	Max Temperature Rating	Crack Pressure (psi)	Max Pressure (psi) at 70°F
	1/2"	3/4"					
Type 316 SS	CVFM-050-316	CVFM-075-316	316 SS	316 SS	750°F	10	3000
PVC	CVFM-050-PVC	CVFM-075-PVC	Ceramic	Hastelloy	120°F	10	150
CPVC	CVFM-050-CPVC	CVFM-075-CPVC	Ceramic	Hastelloy	190°F	10	235
Kynar	CVFM-050-KY	CVFM-075-KY	Ceramic	Hastelloy	200°F	10	150
Alloy 20	CVFM-050-C20	CVFM-075-C20	Hastelloy	Hastelloy	750°F	10	3000
Hastelloy	CVFM-050-Hastelloy	CVFM-075-Hastelloy	Hastelloy	Hastelloy	750°F	10	3000

Hastelloy and Alloy 20 Check Valves are also available upon request.

To add a Check Valve to another product, please add the Check Valve part number to the end of the product number. (e.g. CS-075-PVC-CVFM or CS-075-316-SS-CVFM)



CSPV CORPORATION STOPS

PRODUCT DATA SHEET



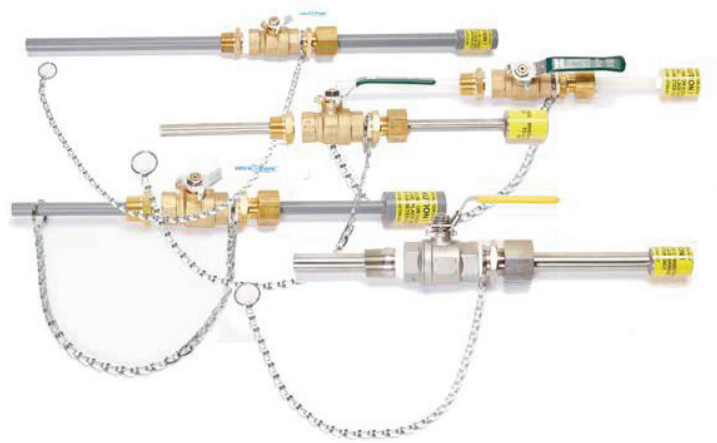
FEATURES

- Valve and fittings made from PVC, CPVC or Kynar.
- CSPV assembly also available with Stainless Steel, Alloy 20 or Hastelloy C276 quills.
- Designed for use with potable water applications.
- Longer quill lengths up to 24" are available upon request.
- Every Corporation Stop comes with a safety chain to prevent the nozzle assembly from being completely withdrawn before the Corporation Stop is closed and is a safety feature to protect against back pressure.

Wetted Material (Quill)	Valve & Fittings Material	Part Number					Temperature & Pressure Rating	
		Process Connection Size (MNPT)			Insertion Length		Max Temp	Max Pressure (psi)*
		1/2"	3/4"	1"	1/2" & 3/4"	1"		
PVC	PVC	CSPV-050-PVC	CSPV-075-PVC	CSPV-100-PVC	8 1/2"	7 5/8"	120°F (49°C)	125
CPVC	CPVC	CSPV-050-CPVC	CSPV-075-CPVC	CSPV-100-CPVC	8 1/2"	7 5/8"	190°F (88°C)	125
Kynar	Kynar	CSPV-050-KY	CSPV-075-KY	CSPV-100-KY	8 1/2"	7 5/8"	260°F (127°C)	150
316 SS	PVC	CSPV-050-316-PVC	CSPV-075-316-PVC	CSPV-100-316-PVC	8 1/2"	7 5/8"	350°F (176°C)	150
Alloy 20	CPVC	CSPV-050-C20-CPVC	CSPV-075-C20-CPVC	CSPV-100-C20-CPVC	8 1/2"	7 5/8"	350°F (176°C)	150
Hastelloy	CPVC	CSPV-050-C276-CPVC	CSPV-075-C276-CPVC	CSPV-100-C276-CPVC	8 1/2"	7 5/8"	350°F (176°C)	150

*Maximum pressure at 70°F (21°C) working temperature

- CSPV Corporation Stops available with wetted material that differs from the valve assembly, after the size add:
 - 316 — Type 316 Stainless Steel quill
 - C20 — Alloy 20
 - C276 — Hastelloy C276 quill
 - example: CSPV-075-316-PVC



WE CAN CUSTOMIZE YOUR EQUIPMENT!

Please call us with your requirements, and our engineering staff will help you with your request.

FEATURES

- Longer quill lengths up to 24" are available upon request.
- Every corporation stop comes with a safety chain to prevent the nozzle assembly from being completely withdrawn before the corporation stop is closed and is a safety feature to protect against back pressure.

	Part Number with Brass Valve					Temperature and Pressure Rating	
Wetted Material (Quill)	Process Connection Size (MNPT)			Insertion Length		Max Temp	Max Press. (psi)*
	1/2"	3/4"	1"	1/2" & 3/4"	1"		
Type 316 SS	CS-050-316	CS-075-316	CS-100-316	8 1/2"	7 5/8"	250°F (121°C)	150
CPVC	CS-050-PVC	CS-075-PVC	CS-100-PVC	8 1/2"	7 5/8"	190°F (88°C)	125
Kynar	CS-050-KY	CS-075-KY	CS-100-KY	8 1/2"	7 5/8"	200°F (93.3°C)	150
Alloy 20	CS-050-C20	CS-075-C20	CS-100-C20	8 1/2"	7 5/8"	250°F (121°C)	150
Hastelloy C 276	CS-050-HASTELLOY	CS-050-HASTELLOY	CS-050-HASTELLOY	8 1/2"	7 5/8"	250°F (121°C)	150

For Corporation Stops with STAINLESS STEEL VALVES - Add SS to the end of the part number.
(e.g. CS-075-316-SS)

For Corporation Stops with LEAD-FREE BRASS VALVES - Add LF to the end of the part number.
(e.g. CS-075-316-LF)

For PVC Corporation Stops with AWWA THREADS - Add AWWA to the end of the part number.
(e.g. CS-075-PVC-AWWA)

CHECK VALVES ARE NOW AVAILABLE FOR ALL CORPORATION STOPS

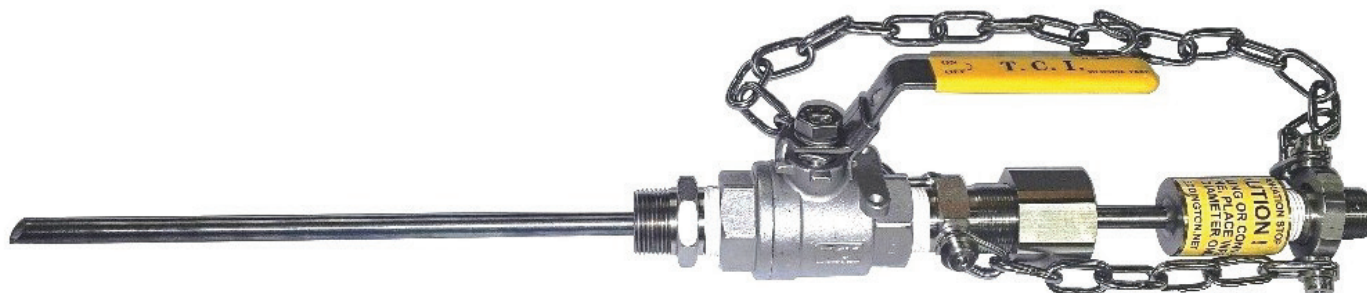
Part Number	Description
CVPVC	1/2" PVC True Union Check Valve with Viton Seals
CVCPVC	1/2" CPVC True Union Check Valve with Viton Seals
CVKY	1/2" Kynar True Union Check Valve with Viton Seals
CVSS	1/2" Type 316 Stainless Steel Spring Loaded Check Valve
C276	1/2" Hastelloy Type C276 Spring Loaded Check Valve

To select a check valve please add the part number at the end of the corporation stop part number.
(e.g. CS-075-PVC-CVPVC or CS-075-316-SS-CVSS)



CORPORATION STOPS WITH INJECTION SAFETY CHAIN

PRODUCT DATA SHEET



FEATURES

- Longer quill lengths up to 24" are available upon request.
- Every corporation stop comes with a safety chain to prevent the nozzle assembly from being completely withdrawn before the corporation stop is closed and is a safety feature to protect against back pressure.
- An additional injection safety chain is included for use during operation.
- Available up to 2" process connection.

	Part Number with Brass Valve					Temperature and Pressure Rating	
Wetted Material (Quill)	Process Connection Size (MNPT)			Insertion Length		Max Temp	Max Press. (psi)
	1/2"	3/4"	1"	1/2" & 3/4"	1"		
Type 316 SS	CSS-050-316	CSS-075-316	CSS-100-316	8 1/2"	7 5/8"	250°F (121°C)	150
Alloy 20	CSS-050-C20	CSS-075-C20	CSS-100-C20	8 1/2"	7 5/8"	250°F (121°C)	150
Hastelloy C276	CSS-050-Hastelloy	CSS-075-Hastelloy	CSS-075-Hastelloy	8 1/2"	7 5/8"	250°F (121°C)	150

For Corporation Stops with STAINLESS STEEL VALVES - Add SS to the end of the part number.
(e.g. CSS-075-316-SS)

For Corporation Stops with LEAD-FREE BRASS VALVES - Add LF to the end of the part number.
(e.g. CSS-075-316-LF)

For PVC Corporation Stops with AWWA THREADS - Add AWWA to the end of the part number.
(e.g. CSS-075-316-AWWA)

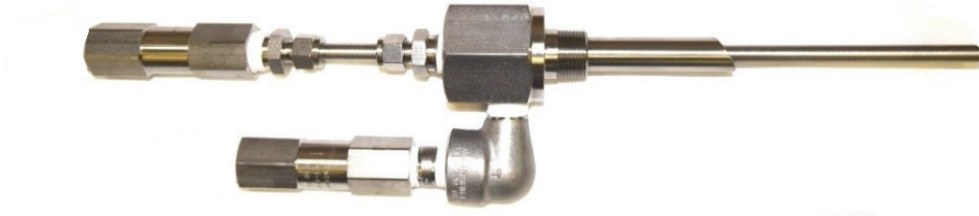
CHECK VALVES ARE NOW AVAILABLE FOR ALL CORPORATION STOPS

Part Number	Description
CVKY	1/2" Kynar True Union Check Valve with Viton Seals
CVSS	1/2" Type 316 Stainless Steel Spring Loaded Check Valve

To select a check valve please add the part number at the end of the corporation stop part number.
(e.g. CSS-075-PVC-CVPVC or CSS-075-316-SS-CVSS)

DUPLEX INJECTION QUILLS

PRODUCT DATA SHEET



The Eddington Duplex Injection Quill Type 316 Stainless Steel with check valve kit - Part Number QD-316-075-CVK - is depicted above and comes with the following:

- 3/4" MNPT System Connection
- 1/2" FNPT Pump Connection
- (2) 1/2" Check Valves - Type 316 Stainless Steel
- (2) PVDF Tube Fittings
- Quill size inner: 3/8" tubing
- Quill size outer: 3/8" pipe
- Quill length inner: Up to 7" lg
- Quill length outer: 2 3/4" lg

Standard configurations are listed below; however, special configurations are also available. Please call for information.

Part Number	Process Connection	Pump Connection	Inner Quill Size (tubing)	Outer Quill Size (pipe)	Inner Quill Length	Outer Quill Length	Pressure (max)	Temperature (max)
QD-316-050	1/2" MNPT	1/4" FNPT	1/4"	1/4"	Up to 7"	2 3/4"	1000 psi	500°F (260°C)
QD-316-050-CVK	1/2" MNPT	1/4" FNPT	1/4"	1/4"	Up to 7"	2 3/4"	1000 psi	375°F (190°C)*
QD-316-075	3/4" MNPT	1/2" FNPT	3/8"	3/8"	Up to 7"	2 3/4"	1000 psi	500°F (260°C)
QD-316-075-CVK	3/4" MNPT	1/2" FNPT	3/8"	3/8"	Up to 7"	2 3/4"	1000 psi	375°F (190°C)*
QD-316-075-BV-CVK	3/4" MNPT	1/2" FNPT	3/8"	3/8"	Up to 7"	2 3/4"	1000 psi	375°F (190°C)*
QD-316-100	1" MNPT	1/2" FNPT	3/8"	3/8"	Up to 7"	2 3/4"	1000 psi	500°F (260°C)
QD-316-100-CVK	1" MNPT	1/2" FNPT	3/8"	3/8"	Up to 7"	2 3/4"	1000 psi	375°F (190°C)*

*Maximum Temperature rating is based on units provided with check valves

APPLICATIONS

- Injection Quills are designed to ensure a more uniform and rapid dispersal of injection chemicals into the center stream of a process pipeline. This prevents corrosive liquids from clinging to the side of the pipe.
- Duplex Injection Quills are primarily made from Type 316 Stainless Steel and allow two chemicals to be inserted simultaneously.

FEATURES

- Check valve kits are available on the pump side connection for easy installation and come assembled ready for use.
- Alloy 20 and Hastelloy materials are also available.
- Special quill lengths available on request.
- Insertion length of the inner tube is adjustable, based on where the customer sets the compression fitting.
- Hex shaped body allows a wrench to be used during installation.
- Made in the USA.



RETRACTABLE 3 PORT INJECTION QUILLS

PRODUCT DATA SHEET

PATENT PENDING



The Eddington Retractable 3 Port Injection Quill Type 316 Stainless Steel - Part Number QR3-300-316-SS-Q125 - is depicted above and comes with the following:

- (3) Port 1/2" FNPT Chemical Inlet Connection
- (3) 1/2" Chemical Shut Off Valves - Type 316 Stainless Steel
- Quill size: 1/4", 3/8" or 1/2" Tubing Type 316 Stainless Steel
- Quill has straight cut ends (not tapered)
- Quill Injection length: 12" lg standard
- Teflon tape and Teflon paste are used on all threaded connection
- Special sizes and materials available

Standard configurations are listed below; however, special configurations are also available. Please call for information.

Part Number	Process Connection (Standard)	Chemical Inlet Connection (3 Ports)	*Quill Size (Type 316 SS Tubing - Standard)	*Quill Length (Standard)	Pressure (max)	Temperature (max)
**QR3-150-316-SS	1 1/2" MNPT	1/4" FNPT	1/4"	12"	150 psi	250°F (121°C)
**QR3-150-316-SS-CVK	1 1/2" MNPT	1/4" FNPT	1/4"	12"	150 psi	250°F (121°C)
**QR3-200-316-SS	2" MNPT	1/4" FNPT	1/4"	12"	150 psi	250°F (121°C)
**QR3-200-316-SS-CVK	2" MNPT	1/4" FNPT	1/4"	12"	150 psi	250°F (121°C)
QR3-250-316-SS	2 1/2" MNPT	1/2" FNPT	1/2"	12"	150 psi	250°F (121°C)
QR3-250-316-SS-CVK	2 1/2" MNPT	1/2" FNPT	1/2"	12"	150 psi	250°F (121°C)
QR3-300-316-SS	3" MNPT	1/2" FNPT	1/2"	12"	150 psi	250°F (121°C)
QR3-300-316-SS-CVK	3" MNPT	1/2" FNPT	1/2"	12"	150 psi	250°F (121°C)

APPLICATIONS

- Injection Quills are designed to ensure a more uniform and rapid dispersal of injection chemicals into the center stream of a process pipeline. This prevents corrosive liquids from clinging to the side of the pipe.
- De-aerator applications are suited particularly well for this product.
- Each one of the three injection quills can be removed individually and then shut off with the corresponding valve.
- Retractable 3 Port Injection Quills are primarily made from Type 316 Stainless Steel and allow three chemicals to be inserted simultaneously.

FEATURES

- Check valve kits are available on the chemical inlet side for easy installation and come assembled ready for use.
- Alloy 20 and Hastelloy materials are also available.
- Special quill lengths and quill ends are available on request.
- Hex shaped body allows a wrench to be used during installation.

3 & 4 PORT INJECTION QUILLS

PRODUCT DATA SHEET

PATENT PENDING



The Eddington Triplex Injection Quill Type 316 Stainless Steel with check valve kit - Part Number QT-316-200-CVK - is depicted above and comes with the following:

- 2" MNPT System Connection
- (3) Port 1/4" FNPT Chemical Inlet Connection
- (3) 1/4" Check Valves - Type 316 Stainless Steel
- (3) 1/4" Isolation Valves - Type 316 Stainless Steel
- Teflon tape and Teflon paste are used on all threaded connection

Standard configurations are listed below; however, special configurations are also available. Please call for information.

Part Number	Process Connection	Number of Connections	Chemical Inlet Connection	Quill Size	Quill Length (Standard)**	Pressure (max)	Temperature (max)
QT-316-100	1" MNPT	3	1/4" FNPT	1/4" Tubing	12"	1000 psi	500°F (260 °C)
QT-316-100-CVK	1" MNPT	3	1/4" FNPT	1/4" Tubing	12"	1000 psi	375°F (190 °C)*
Q4-316-100	1" MNPT	4	1/4" FNPT	1/4" Tubing	12"	1000 psi	500°F (260 °C)
Q4-316-100-CVK	1" MNPT	4	1/4" FNPT	1/4" Tubing	12"	1000 psi	375 °F (190 °C)*
QT-316-150	1 1/2" MNPT	3	1/4" FNPT	3/8" Tubing	18"	1000 psi	500°F (260 °C)
QT-316-150-CVK	1 1/2" MNPT	3	1/4" FNPT	3/8" Tubing	18"	1000 psi	375°F (190 °C)*
Q4-316-150	1 1/2" MNPT	4	1/4" FNPT	3/8" Tubing	18"	1000 psi	500°F (260 °C)
Q4-316-150-CVK	1 1/2" MNPT	4	1/4" FNPT	3/8" Tubing	18"	1000 psi	375°F (190 °C)*
QT-316-200	2" MNPT	3	1/4" FNPT	1/4" sch40 Pipe	24"	1000 psi	500°F (260 °C)
QT-316-200-CVK	2" MNPT	3	1/4" FNPT	1/4" sch40 Pipe	24"	1000 psi	375°F (190 °C)*
Q4-316-200	2" MNPT	4	1/4" FNPT	1/4" sch40 Pipe	24"	1000 psi	500°F (260 °C)
Q4-316-200-CVK	2" MNPT	4	1/4" FNPT	1/4" sch40 Pipe	24"	1000 psi	375°F (190 °C)*

*Maximum Temperature rating is based on units provided with check valves

**Quill lengths can be staggered upon request

APPLICATIONS

- Injection Quills are designed to ensure a more uniform and rapid dispersal of injection chemicals into the center stream of a process pipeline. This prevents corrosive liquids from clinging to the side of the pipe.
- De-aerator applications are suited particularly well for this product.
- Triplex Injection Quills are primarily made from Type 316 Stainless Steel and allow three chemicals to be inserted simultaneously.

FEATURES

- Check valve kits are available on the chemical inlet side for easy installation and come assembled ready for use.
- Alloy 20 and Hastelloy materials are also available.
- Special quill lengths available on request.
- Hex shaped body allows a wrench to be used during installation.
- Each quill is welded to two rings to prevent quills from unscrewing.
- Made in the USA.



RETRACTABLE INJECTION QUILLS

PRODUCT DATA SHEET



New Standard Lengths Available: 8", 12", 15", 18", 21 1/2"

The Eddington Retractable Injection Quill with check valve - Part Number QR-075-SS-CV - is depicted above. Standard configurations are listed below; however, special configurations are also available. Please call for information.

Part Number	Process Connection	Pump Connection	Wetted Part (Quill) Material	Packing Material (700°F max)	Quill Diameter	Injection Length	Working Pressure	Working Temperature
QR-050-SS	1/2" MNPT	1/2" FNPT	Type 316 SS	Graphite	3/8" Dia. Tubing	21.5"	300 psi	200°F
QR-050-SS-VHT	1/2" MNPT	1/2" FNPT	Type 316 SS	Graphite	3/8" Dia. Tubing	21.5"	450 psi	450°F
QR-075-SS	3/4" MNPT	1/2" FNPT	Type 316 SS	Graphite	1/4" Dia. Pipe	21.5"	300 psi	200°F
QR-075-SS-VHT	3/4" MNPT	1/2" FNPT	Type 316 SS	Graphite	1/4" Dia. Pipe	21.5"	450 psi	450°F
QR-100-SS	1" MNPT	1/2" FNPT	Type 316 SS	Graphite	1/4" Dia. Pipe	21.5"	300 psi	200°F
QR-100-SS-VHT	1" MNPT	1/2" FNPT	Type 316 SS	Graphite	1/4" Dia. Pipe	21.5"	450 psi	450°F

Check Valves are available for all Eddington Retractable Injection Quills.

- Please add a -CVFM on the end of the part number to add a check valve.
- Standard check valves are 1/2" FNPT (pump connection), all components are Type 316 Stainless Steel.

APPLICATIONS

- Injection Nozzle allows for proper injection into liquid, gas or mixed phase system.
- Nozzles can be removed for inspection without system shutdown.
- Adjustable quill permits precise positioning of quill in fluid flow and restrains stinger during insertion/removal.

FEATURES

- Check valves are available on the pump side connection for easy installation.
- Alloy 20 and Hastelloy materials are also available.
- Available in larger sizes, up to 3" MNPT Connection.
- All Check Valves are made of 100% Type 316 Stainless Steel (no rubber seals).
- Welded safety collars on all retractable injection quills.

SPECIALS

- Materials such as Hastelloy and Alloy 20 are available upon request.
- Different quill diameters are available upon request.
- Special insertion lengths are available upon request.



Diaphragm pressure relief valves are designed to protect pumping systems from over pressure damage caused by defective equipment or blockage in the pump system line.

- Reliable and low cost
- Adjustable from 15 to 150 psi
- 2 port (standard) and 3 port (with gauge)
- Viton diaphragm standard (others available)
- Full range of chemically resistant wetted materials

Diaphragm pressure relief valves operate when the pressure in the pumping system exceeds the preset pressure of the valve. The diaphragm is held against the valve seat by an internal spring. When the preset pressure is exceeded the diaphragm is forced up and the system fluid flows out the relief port and back to the system fluid tank or to the suction side of the pump. The valves are pre-set at 40 psi; however, they are field adjustable from 10 to 150 psi (optional 350 psi) via the adjustment screw. The relief valve should be set approximately 15 psi higher than the system pressure. Installation should be made as close to the pump as possible, without any valves or accessories between the relief valve and the pump.

Eddington Industries performs a pressure test on every back pressure relief valve prior to shipping. This ensures the unit will operate leak-free and to the specified pressure ratings.

Eddington Industries Back Pressure Valves come standard without a gauge port or gauge. When ordering please specify if a gauge port and/or gauge is required.

Made in the USA.

Part Number	Connection Size	Material	Diaphragm	Max Pressure @ 70°F	Max Temp.
BP-PVC-050	1/2" FNPT	PVC	Viton	150 psi	140°F (60°C)
BP-CPVC-050	1/2" FNPT	CPVC	Viton	150 psi	195°F (90°C)
BP-KY-050	1/2" FNPT	KYNAR	Viton	150 psi	200°F (93°C)
BP-PP-050	1/2" FNPT	Polypropylene	Viton	150 psi	195°F (90°C)
BP-SS-050	1/2" FNPT	316 SS	Viton	350 psi	300°F (148°C)

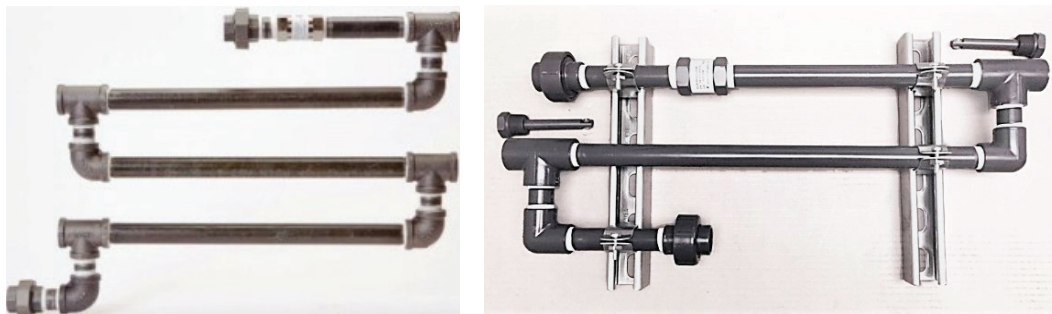
- Alloy 20 and Hastelloy C available upon request
- Socket connections available

Available Diaphragm Material: EPDM, Buna



CORROSION COUPON RACK (SERIES 2000)

PRODUCT DATA SHEET



The Eddington Corrosion Coupon Rack is depicted above.

Standard configurations are listed below; however, special configurations are also available. Please call for information.

Part Number	Pipe Size	Material	Stations Available	Available Strut Mounted (use MS in P/N)	Available with Mounting Board (use MB in P/N)	Flow Regulator (Standard)
2200	3/4"	Black Iron	1-6	Yes	Yes	5 gpm
2210	1"	Black Iron	1-6	Yes	Yes	10 gpm
2400	3/4"	PVC	1-6	Yes	Yes	5 gpm
2410	1"	PVC	1-6	Yes	Yes	10 gpm
2500	3/4"	Type 304 SS	1-6	Yes	Yes	5 gpm
2510	1"	Type 304 SS	1-6	Yes	Yes	10 gpm

Typical Part Number configuration: 2210-4MS-F10-1" Black Iron with 4 stations, mounted on strut with a 10 gpm flow regulator.

All coupon racks are teflon taped, pasted and come complete with the appropriate amount of coupon holders and hardware.

APPLICATIONS

- The corrosion test rack simplifies the procedure for establishing a corrosion monitoring program. This unit is preassembled and consists of threaded PVC, Black Iron or Stainless Steel pipe and fittings.
- One to six test sites can be provided so that the multi-metallic systems can be tested. A variable in-line flow regulator comes standard in the assembly for critical measurement of water velocities. An optional Y-Strainer can be added to help maintain water velocity through the flow meter and pipe rack.
- The corrosion test rack is designed according to ASTM designation D2688-70 which specifies the monitoring of corrosivity of water in the absence of heat transfer (weight loss methods).

OPTIONS

- 1-6 Station Coupon Holders
- Available with or without strut mounting or a mounting board
- High pressure (300 psi) coupon rack available (2600 series)
- Construction materials available
- Flow meter - 2-20 gpm
- Y-Strainer
- Made in the USA

SPECIFICATIONS

Construction: Threaded PVC, Black Iron or Type 304 Stainless Steel pipe and fittings

Dimensions: 24" H x 30" W

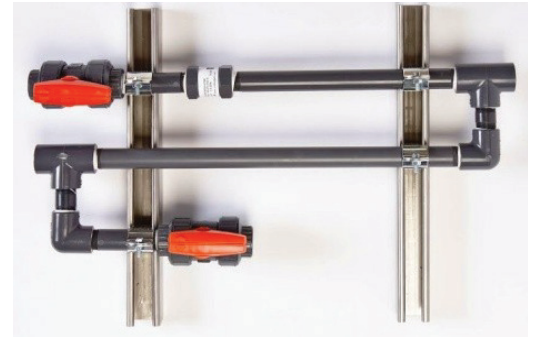
Flow Regulator: 3/4" Piping kits - 5 gpm (standard)
1" Piping kits - 10 gpm (standard)

Maximum allowable temperatures at pressure

Temperature	Pressure
80°F	280 psi
100°F	198 psi
120°F	128 psi
> 140°F	Not Recommended

CORROSION COUPON RACK (SERIES 4000)

PRODUCT DATA SHEET



Model 4200-2MS-F05 is depicted above.

Our Standard 4000 Series Corrosion Test Coupon Bypass Systems are available with one to six coupon holders and have both inlet and outlet isolation ball valves. They are available in a choice of four materials: Sch 80 PVC suitable for most applications, CPVC for applications requiring moderately higher temperature, Carbon Steel and Stainless Steel for high temperature applications. The PVC and CPVC bypass systems are mounted on galvanized steel strut for easy installation and increased rigidity.

All piping and valves for the bypass are to be either 3/4" or 1".

Made in the USA.

APPLICATIONS

- Cooling towers
- Chillers
- Boilers
- Heat exchangers
- Condenser units

Construction materials available:

- Black Iron
- CPVC
- PVC
- Type 304 Stainless Steel

OPTIONS

- Custom configurations and materials
- Back flow check valves
- Flow control valves
- Flow indicators
- Y-Strainers
- Test sample valves

Test specimens must be handled carefully to avoid coating with natural oil from the skin, thread compound or any similar material.

When removed, each specimen is to be carefully disconnected from the holder and then immediately dried with hot air or by sponging with a paper towel. Do not clean or remove any residue that may be on the coupon. Insert the specimen in the original envelope or wrap in cellophane. Enclose the test coupon data card showing company name, locations of the bypass's, specimen number, date of installation and date of removal. Promptly mail to Eddington Industries for analysis.



CORROSION COUPON RACK KIT

PRODUCT DATA SHEET



Model 2410-4-F10-Kit-Clear shown.

The Corrosion Test Rack simplifies the procedure for establishing a corrosion monitoring program. The kit consists of the 3/4" or 1" threaded PVC pipe and PVC fittings. Available in both solid and clear (shown). This kit is easily assembled via threaded connections and an easy to follow instruction guide. The clear kit also includes (4) foam covers to minimize exposure to sunlight.

Four test coupon holders are provided so that multi-metallic systems can be tested. An inline 5 or 10 gpm flow regulator is incorporated in the assembly for maintaining constant water velocity. A variable in-line flow meter is also available as an option for critical measurement of water velocities. An optional Y-Strainer is available to help maintain water velocity through the flow meter and pipe rack.

The corrosion test rack is designed according to ASTM designation D2688-70 which specifies the monitoring of corrosivity of water in the absence of heat transfer (weight loss methods).

Made in the USA.

SPECIFICATIONS

Construction:	3/4" or 1" Sch 40 PVC or Clear PVC pipe and Sch 80 PVC fittings
Dimensions:	24" H x 30" W
Flow Regulator:	5 gpm (3/4" rack) or 10 gpm (1" rack)
Coupon Holders:	4 PVC coupon holders with hardware
Foam Covers:	4 foam covers for clear PVC piping kit

Part Number	Description
2400-4-F05-Kit	3/4" 4 Station Coupon Rack Kit - PVC
2400-4-F05-Kit-Clear	3/4" 4 Station Coupon Rack Kit - Clear PVC (comes with 4 foam covers)
2410-4-F10-Kit	1" 4 Station Coupon Rack Kit - PVC
2410-4-F10-Kit-Clear	1" 4 Station Coupon Rack Kit - Clear PVC (comes with 4 foam covers)
2700108	Blue-white flow meter model F-41000LN-16, 2-20 gpm, with 1" FNPT connection
2700111	Y-Strainer, PVC Sch 80

CORROSION TEST COUPONS

PRODUCT DATA SHEET



Part Number	Material	Hole Size
100100	C101D Steel	3/16"
100200	Copper, CDA110	3/16"
100300	Admiralty Brass	3/16"
100400	Galvanized Steel	3/16"
100500	Copper Nickel, 90/10	3/16"
100600	Aluminum, 7075-T6	3/16"
100700	Type 304 Stainless Steel	3/16"
100800	Type 316 Stainless Steel	3/16"
100900	Mesh Bio Film	3/16"
101000	Deposition/Scale Coupon Steel C1010	3/16"

Made in the USA.

APPLICATIONS

- To provide a basis for estimating service life of process equipment.
- To provide an insight into corrosion mechanics.
- To compare resistance of one alloy to another.
- As a quality control test for a given heat of alloy.
- Pre-weighing and post-weighing of coupons available upon request.

FINISHES

Coupons can be furnished with a variety of finishes depending on your particular application. Some of the typical finishes available are defined below.

Mill: Finish as produced from mill

Glass Bead: Blasted with fine glass beads to remove mill scale

120 Grit: Fine finish commonly used in corrosion tests, such as, pitting studies where smooth surface finish is desired. Finishes up to 600 grit (extremely fine) can be provided.



TEST COUPON HOLDER

PRODUCT DATA SHEET



Standard configurations are listed below; however, special configurations and materials are also available.

Please call for information.

Part Number	Threaded Connection MNPT	Plug Material	Stem Material	Stem Length	Hardware Provided	Working Pressure (max)	Working Temp. (max)
220500	3/4"	Steel	Steel	3"	SS w/ Teflon Washers	300 psi	500°F
220500-N	3/4"	Steel	Nylon	3"	SS w/ Nylon Washers	300 psi	185°F
220500-T	3/4"	Steel	Teflon	3"	SS w/ Teflon Washers	300 psi	450°F
220500-S6	3/4"	Steel	Steel	6"	SS w/ Teflon Washers	300 psi	500°F
220500-SN6	3/4"	Steel	Nylon	6"	SS w/ Nylon Washers	300 psi	185°F
220500-ST6	3/4"	Steel	Teflon	6"	SS w/ Teflon Washers	300 psi	450°F
240500	3/4"	PVC	Nylon	3"	SS w/ Nylon Washers	150 psi	140°F
240500-T	3/4"	PVC	Teflon	3"	SS w/ Teflon Washers	150 psi	140°F
240500-S6	3/4"	PVC	Nylon	6"	SS w/ Nylon Washers	150 psi	140°F
240500-ST6	3/4"	PVC	Teflon	6"	SS w/ Teflon Washers	150 psi	140°F
250500	3/4"	Type 304 SS	Type 304 SS	3"	SS w/ Teflon Washers	300 psi	500°F
250500-T	3/4"	Type 304 SS	Teflon	3"	SS w/ Teflon Washers	300 psi	450°F
250500-ST6	3/4"	Type 304 SS	Teflon	6"	SS w/ Teflon Washers	300 psi	450°F
221500	1"	Steel	Steel	3"	SS w/ Teflon Washers	300 psi	500°F
221500-N	1"	Steel	Nylon	3"	SS w/ Nylon Washers	300 psi	185°F
221500-T	1"	Steel	Teflon	3"	SS w/ Teflon Washers	300 psi	450°F
221500-S6	1"	Steel	Steel	6"	SS w/ Teflon Washers	300 psi	500°F
221500-SN6	1"	Steel	Nylon	6"	SS w/ Nylon Washers	300 psi	185°F
221500-ST6	1"	Steel	Teflon	6"	SS w/ Teflon Washers	300 psi	450°F
241500	1"	PVC	Nylon	3"	SS w/ Nylon Washers	150 psi	140°F
241500-T	1"	PVC	Teflon	3"	SS w/ Teflon Washers	150 psi	140°F
241500-S6	1"	PVC	Nylon	6"	SS w/ Nylon Washers	150 psi	140°F
241500-ST6	1"	PVC	Teflon	6"	SS w/ Teflon Washers	150 psi	140°F
251500	1"	Type 304 SS	Type 304 SS	3"	SS w/ Teflon Washers	300 psi	500°F
251500-T	1"	Type 304 SS	Teflon	3"	SS w/ Teflon Washers	300 psi	450°F
251500-ST6	1"	Type 304 SS	Teflon	6"	SS w/ Teflon Washers	300 psi	450°F

- Eddington Industries can also provide coupon holders to fit most other manufactured coupons.
- Coupon Holders also available in Type 316 Stainless Steel and CPVC.
- Custom lengths available.

RETRACTABLE TEST COUPON HOLDER

PRODUCT DATA SHEET



The Eddington Retractable Test Coupon Holder with safety chain is depicted above. Standard configurations are listed below; however, special configurations and materials are also available. Please call for information.

Part Number	Type	Process Connection MNPT	Plug Material	Coupon Holder Material	Insertion Length (18" Standard)	Hardware Provided	Working Pressure (max)
270600	Safety Chain	3/4"	Type 316 SS	Type 316 SS	18"	SS w/ Teflon Washers	150 psi
270601	Safety Chain	1"	Type 316 SS	Type 316 SS	18"	SS w/ Teflon Washers	150 psi
270700	Threaded Rod	3/4"	Type 316 SS	Type 316 SS	18"	SS w/ Teflon Washers	300 psi
270701	Threaded Rod	1"	Type 316 SS	Type 316 SS	18"	SS w/ Teflon Washers	300 psi

APPLICATIONS

- The retractable coupon holder is a simple retrieval system for removing corrosion test coupons.

STANDARD SPECIFICATIONS

- 3/4" or 1" MNPT are the standard process connections.
- Custom retractable holders are available upon request.

FEATURES

- Welded safety collar.
- Safety chain or threaded rod assemblies available.
- Wetted parts are Type 316 Stainless Steel construction.
- Packing is made from graphite (max. temperature 700°F).
- Teflon hardware provided.
- Made in the USA.



THREADED ORIFICE UNIONS

PRODUCT DATA SHEET



FEATURES

- Available in Forged Steel (A105) and 316 Stainless Steel unions with Type 316 Stainless Steel orifice plate.
- Available in 1/2", 3/4" and 1" threaded connection sizes.
- All orifice unions are rated a class 3000 fitting.
- All orifice unions have precision machined components.
- Standard orifice union comes standard with two places or four plates, as shown in the table below.
- Orifice plates can be supplied blank or precision machined to your custom specifications.
- Custom threaded connections are available on request.
- Individual plates available.

Union Material Class 3000 Fitting	Part Number Process Connection Size (MNPT)			Orifice Plate Material	Orifice Plate Hole Diameter
	1/2"	3/4"	1"		
Forged Steel	OU050	OU075	OU100	Type 316 SS	.062" & .250"
Forged Steel	OU050-P4	OU075-P4	OU100-P4	Type 316 SS	.062", .125", .188", .250"
Type 316 SS	OU050-316	OU075-316	OU100-316	Type 316 SS	.062" & .250"
Type 316 SS	OU050-316-P4	OU075-316-P4	OU100-316-P4	Type 316 SS	.062", .125", .188", .250"

Please consult factory for availability of other materials.

GLYCOL FEEDER GL-50-E

PRODUCT DATA SHEET



OPTIONS

Part Number	Description
GL-50-E	Comes standard with low level switch and warning light
GL-50-E-AA	Comes with both low level switch and audible alarm
GL-50-E-RC	Comes with both low level switch and remote contact
GL-50-2A	Dual zone glycol feeder with: 2 each 1/2 HP bronze rotary gear pump (3 gpm @ 100 psi)
GL-50-M-E	Manual feeder with suction and discharge assemblies and 1/3 HP pump
GL-100-E 100	100 gallon tank with 1/2 HP pump and same options as GL-50-E
GL-Hinged Lid	Standard lid with a 1/3 hinged opening

*other options available

SPECIFICATIONS

Gear Pump: 1/3 and 1/2 HP bronze gear pump. Provides steady and even flow against pressure with an internal pressure relief bypass valve. Pump suction plumbing includes PVC drain valve, PVC ball valve, brass Y-strainer and flexible tubing. Pump discharge plumbing includes brass check valve, brass tubing, pressure switch and back-flow pressure valve.

Tank: 55 gallon polyethylene tank with a PE cover. Tank is fully supported and restrained by a painted carbon steel bottom mount stand.

Control Panel: The NEMA 4x control panel comes standard with a 115V power cord. The control panel comes standard with a 3 position (hand-off-auto) switch, red low level and green main power LED lights. Mounted on a steel painted cross member for rigidity.

Low Level Switch: Polypropylene side entering low level switch with 10 amp relay.

Pressure Switch: 5-65 psi, 1/4" NPT pressure switch

Pressure Relief Valve: 5 to 150 psi. Manufactured by Eddington Industries.

System Connection: 3/4" brass FNPT.

Made in the USA.



EMBRITTLEMENT DETECTOR

PRODUCT DATA SHEET



Eddington Embrittlement Detector for ASTM-D807

The Embrittlement Detector is designed to simulate conditions in a boiler tube seam. By bringing boiler water in contact with the stressed specimen, the detector determines if the water causes embrittlement cracking.

Carbon steel replacement specimens are available.

Made in the USA.

FEATURES

- Assessing the tendency of industrial boiler waters to cause embrittlement
- Material construction: A108 C1018 Steel



The Eddington Flow Regulator is designed to deliver a constant volume of water flow over a wide pressure drop range. The constant flow of water is maintained by the use of the flexible orifice. The flow rate is maintained within $\pm 15\%$ between 15 and 125 psi. The flow rate varies due to manufacturing tolerances and water temperature. Eddington Industries manufactures Flow Regulators in various materials such as Nickel Plated Brass, Type 316 Stainless Steel, and PVC. Eddington Flow Regulators come in various flow rates and are 3/8", 1/2", 3/4", 1" FNPT, and 1 1/4", 1 1/2", 2", 2 1/2", and 3" MNPT and flow rates range from 0.5 to 120 gallons per minute (GPM). We permanently etch the direction of flow with an arrow, our part number and our web address on each Flow Regulator. To ensure proper operation, always install regulator with the arrow pointed downstream.

Made in the USA.

Part Number (Nickel Plated Brass)	Flow (GPM)	Inlet Connection	Diameter (inches)	Length (inches)
FR-038-S	.06 to 1.0	3/8" FNPT	7/8" HEX	1 3/4"
FR-050-S	1.0 to 6.0	1/2" FNPT	1" HEX	1 15/16"
FR-075-S	1.0 to 11.5	3/4" FNPT	1 1/4" HEX	2 9/32"
FR-100-S	1.0 to 30	1" FNPT	1 1/2" HEX	2 3/4"
FR-125-S	1.0 to 30	1 1/4" MNPT	1 1/4" PIPE	3"
FR-150-S	1.0 to 30	1 1/2" MNPT	1 1/2" PIPE	3"
FR-200-S	1.0 to 30	2" MNPT	2" PIPE	3"
FR-250-S	30 to 90	2 1/2" MNPT	2 1/2" PIPE	4"
FR-300-S	30 to 120	3" MNPT	3" PIPE	4 1/2"

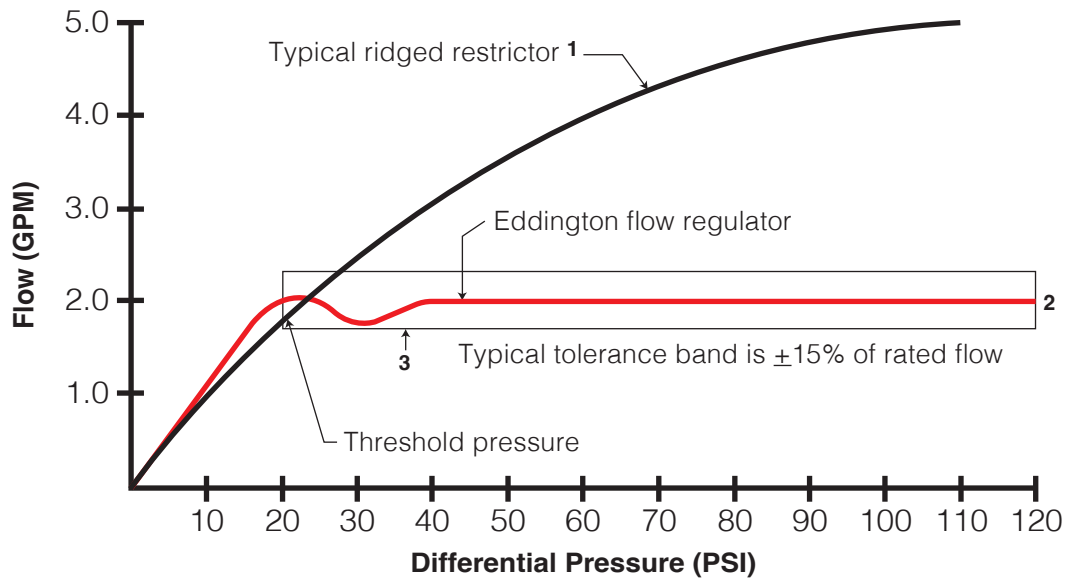
Eddington Industries Flow Regulators are designed for potable water use under 180°F using either Buna or EPDM orifices (standard is Buna). Eddington Industries Flow Regulators using Viton rubber orifices are designed for potable water use under 290°F.



FLOW REGULATORS

PRODUCT DATA SHEET

Flow Characteristics: FR Series Valves



- (1) Calculated flow through 1/8" diameter orifice.
(2) Typical flow curve of Eddington 2 GPM Flow Regulator.
(3) Threshold pressure will vary with flow rating.

APPLICATIONS

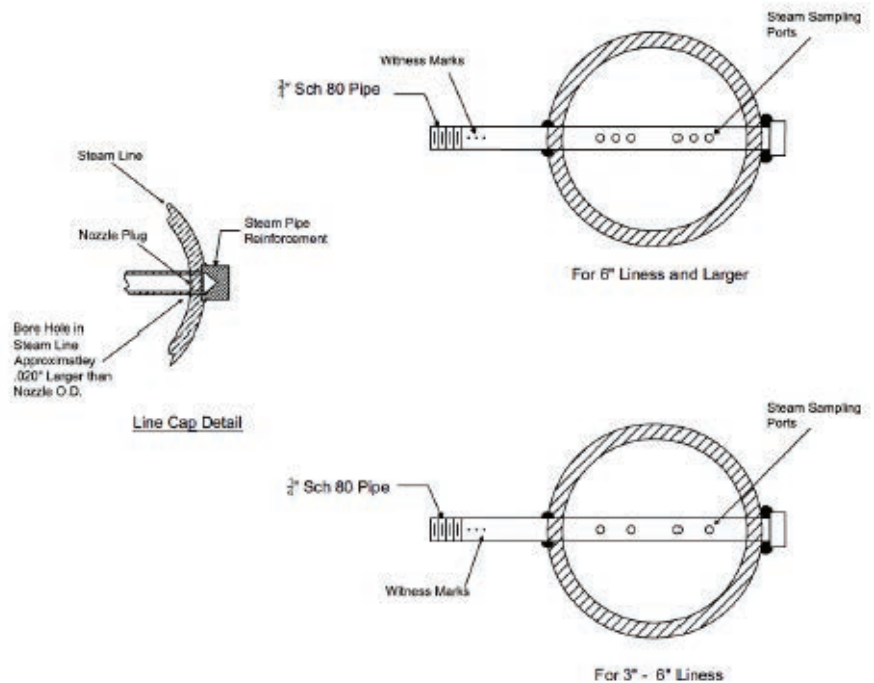
- Cooling towers
- Water softeners
- Tankless heaters
- Water filters
- Ground water heat pumps
- Irrigation systems
- Pumps (well and packing water)
- Drinking fountains
- Water purifiers

MATERIALS

- PVC, Stainless Steel, Lead-free Nickel Plated Brass
- Sizes: 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3" NPT
- Rubber orifice: Buna, Viton, EPDM
- Custom connections, materials and sizes available.
- Lead-free (LF) available

STEAM SAMPLING NOZZLE

PRODUCT DATA SHEET



FEATURES

- Steam sampling nozzles are based on ASTM D-1066-82.
- Non-destructive testing, welds, heat treatment, construction, materials and design must be in accordance with all applicable codes.
- The line and sampling nozzle would be the same material of construction.
- When single port nozzles cannot be installed in super heated supply tubes, multiport sampling nozzle is recommended for saturated or super heated steam in larger tubes or lines.
- One to six test sites can be provided so that the multi-metallic systems can be tested. A variable in-line flow regulator comes standard in the assembly for critical measurement of water velocities. An optional Y-strainer can be added to help maintain water velocity through the flow meter and pipe rack.
- The corrosion test rack is designed according to ASTM designation D2688-70 which specifies the monitoring of corrosivity of water in the absence of heat transfer (weight loss methods).
- Made in the USA.



Eddington Industries was established in 1948 by John J. Wynn in Bensalem, Pennsylvania. As industrial output soared after WWII, demand for quality manufactured tools and fabricated assemblies propelled Eddington Industries to become a leader in our industry in the Philadelphia area. In the late 1960's, Eddington Industries started manufacturing custom equipment for the industrial water treatment industry and by the late 1990's, the company started manufacturing and marketing a line of standard products to the industrial water treatment industry. Since 2014, Eddington Industries has been an exhibitor at the AWT Annual Convention and our products are now sold worldwide.

Our team of engineers and manufacturing professionals are dedicated to providing high quality products and developing new products that meet the needs of industrial water treatment specialists. As a family-run business, we take particular pride in the quality of our design and work. Through our dedication to excellence, we strive every day to reach a new level of quality and value for our customers.

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