Pressure Reducing Valve Station
Series 386-DL

1.0 PRODUCT DESCRIPTION

Available Sizes

- 1 ½ x 1 ½"/DN40 x DN40 to 6 x 2"/DN150 x DN50

Pipe Material

- Stainless steel

Maximum Working Pressure

- 300 psi/2068 kPa/21 Bar

Operating Temperature Range

- +33°F to +140°F/+1°C to +60°C

Maximum Flowrate

- Up to 408 gpm/1544 lpm

Application

- Fully integrated, ready-to-install pressure reducing valve (PRV) station.
- Typically for use in potable water systems to reduce and control system pressures to specified levels, independent of upstream pressure and flow variations.
- Offered in four standard configurations to accommodate various system flowrates, pressure reduction ratios, redundancy, and pressure safety options.
- Includes integrated low-flow bypass branch for accurate control in low water demand situations.
- Features integral automatic hydraulic control valves, isolation valves, pressure gauges and strainers for each branch.
- Fully supported with integrated strut frame, ready for installation (except for 1 ½ x 1 ½").
- Connects to piping with Victaulic grooved mechanical couplings. When connecting to a copper piping system, a Victaulic Style 647 dielectric waterway fitting or a Victaulic Style 644 transition coupling is available for order separately.
- Exclusively for use with Victaulic couplings, fittings, valves, accessories and pipe which feature ends formed with Victaulic Original Groove System (OGS).

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

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1.0 PRODUCT DESCRIPTION (CONTINUED)

Optional Accessories[1]

- Dielectric Waterway Fitting – Victaulic Style 647
- Installation-Ready™ Transition Coupling for Potable Water - Victaulic Style 644
- Pressure Relief Valve – Victaulic Series 973-Q
- Air Release Valve - Victaulic Series 9A3, 9A7, 9C3 or 9C7

[1] These items not offered as part of the standard Series 386 PRV Station but can be ordered separately.

Series 386 PRV Station Part Codes

(Use the 8th place in the part code to designate which configuration is being ordered)

EXAMPLE: KC40386**A**EB

Series 386**A-DL** = Single Stage PRV Station with Direct Acting Low-Flow Bypass (LFB)

Series 386**B-DL** = Two Stage PRV Station with Direct Acting LFB

Series 386**C-DL** = Single Stage PRV Station with Direct Acting LFB & Emergency Downstream Over Pressure Guard "Watchdog" Combination

Series 386**D-DL** = Two Stage PRV Station with Direct Acting LFB & Emergency Downstream Over Pressure Guard "Watchdog" Combination

2.0 CERTIFICATIONS/LISTINGS

See 7.0 Reference Materials section for individual component certifications/listings

3.0 SPECIFICATIONS – MATERIAL

- Schedule 10 stainless steel pipe.
- Victaulic Original Groove System (OGS).

Coupling: Ductile iron conforming to ASTM A536, Grade 65-45-12.

Housing Coating Color: Blue.

Gasket: Fluoroelastomer blend.

Bolts/Nuts: Carbon steel oval neck track bolts meeting the mechanical property requirements of ASTM A449 (imperial) and ISO 898-1 Class 9.8 (metric). Carbon steel hex nuts meeting the mechanical property requirements of ASTM A563 Grade B (imperial – heavy hex nuts) and ASTM A563M Class 9 (metric – hex nuts). Track bolts and hex nuts are zinc electroplated per ASTM B633 FE/ZN5, finish Type III (imperial) or Type II (metric).

Series 726S Ball Valve: CF8M stainless steel body and end cap.

Ball: 316 stainless steel.

Seat: Reinforced polytetrafluorethylene (RTFE).

Seal: Fluoroelastomer.

Lever Handle: Carbon steel, zinc-plated; plastic grip.

Lever Handle Bracket: Hot rolled steel, black enamel coated.

Bracket Bolts & Washers: Cold rolled steel, zinc plated.

Integral Locking Device Components: Stamped carbon steel, zinc plated.

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3.0 SPECIFICATIONS – MATERIAL (CONTINUED)

Series 722L Ball Valve: Forged brass, per CW 509L.

Ball: Brass, chrome plated, per CW 510L.

Stem: Brass, chrome plated, per CW 510L.

Seat: Polytetrafluoroethylene (PTFE).

Stem Seal: Double O-rings rubber and PTFE friction ring.

Handle: Low carbon steel, zinc or cadmium plated, with vinyl grip.

Handle Hex Nut: Carbon steel, zinc plated.

Butterfly Valve: Stainless steel body conforming to ASTM A351 Grade CF8M.

Disc: Stainless steel conforming to ASTM A351 Grade CF8M.

Seat: Fluoroelastomer.

10-Position Handle: Zinc-plated carbon steel handle with zinc-plated carbon steel latch plate and zinc-plated carbon steel fasteners, infinitely variable, padlockable and includes memory stop. Optionally available with tamper-resistant hardware.

Strainer: Ductile iron body.

Screen: Type 304 stainless steel.

O-Rings: EPDM.

Coating: Fusion bonded epoxy, RAL 5017.

Pressure Reducing Valve, Excessive Pressure Shut-Off Valve, and Pressure Reducing System with "Watchdog" Hydraulic Backup Valve: Ductile iron body, cover and partition.

Internals: Stainless steel and bronze.

Control Accessories: Type 316 stainless steel.

Tubing & Fittings: Type 316 stainless steel.

Diaphragm: EPDM/FKM blend, nylon fabric-reinforced.

O-Rings: EPDM.

Seal: NBR.

Coating: Fusion bonded epoxy, RAL 5017.

3.1 VALVE SELECTION BY STATION TYPE AND SIZE

A and B Stations

Bypass Line: Series 722L for all sizes

Main Line: Series 726S for 1 ½"/DN40 size, butterfly valve for all other sizes

C and D Stations

Bypass and Main Line: Series 726S for 1 ½"/DN40 size, butterfly valve for all other sizes

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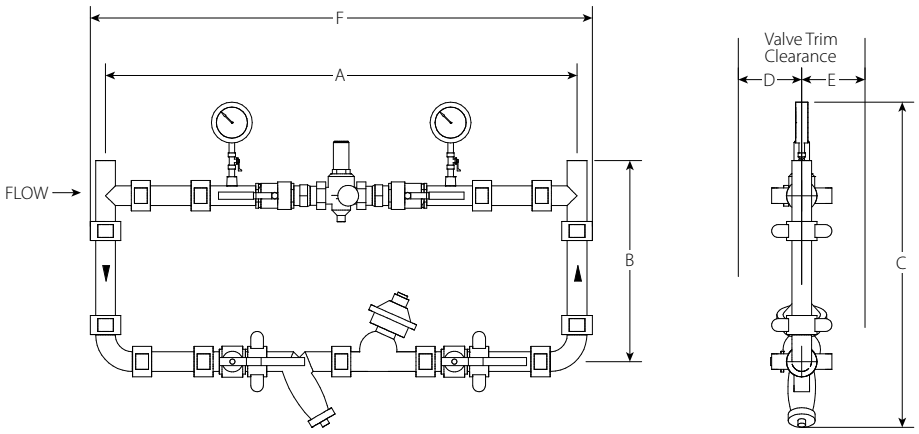
4.0 DIMENSIONS

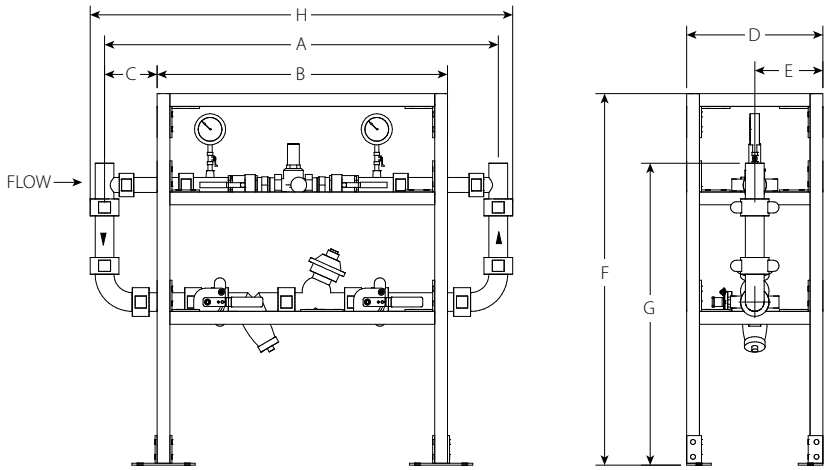
Series 386A – DL (No Rack)



Size						Dimensions						Weight
Nominal Primary Line x Low-Flow Bypass inches DN			Actual O.D. Primary Line x Low-Flow Bypass inches mm			A inches mm	B inches mm	C inches mm	D inches mm	E inches mm	F inches mm	Approx. (Each) lb kg
1 ½ DN40	x	1 ½ DN40	1.900 48.3	x	1.900 48.3	45.50 1156	19.38 492	31.38 797	6.25 159	6.25 159	51.31 1303	106.00 48.1

4.1 DIMENSIONS

Series 386A – DL (With Rack)



Size						Dimensions								Weight
Nominal Primary Line x Low-Flow Bypass inches DN			Actual O.D. Primary Line x Low-Flow Bypass inches mm			A inches mm	B inches mm	C inches mm	D inches mm	E inches mm	F inches mm	G inches mm	H inches mm	Approx. (Each) lb kg
2 DN50	x	1 ½ DN40	2.375 60.3	x	1.900 48.3	49.81 1265	36.75 933	6.63 168	17.25 438	8.63 219	47.00 1194	38.19 970	55.94 1421	261.21 118.9
2 ½	x	1 ½ DN40	2.875 73.0	x	1.900 48.3	52.75 1340	39.00 991	7.25 184	17.25 438	8.63 219	47.00 1194	38.81 986	59.50 1511	285.53 129.5
3 DN80	x	1 ½ DN40	3.500 88.9	x	1.900 48.3	56.75 1441	42.00 1067	8.38 213	19.25 489	9.63 245	50.00 1270	41.81 1062	64.25 1632	353.19 160.2
4 DN100	x	1 ½ DN40	4.500 114.3	x	1.900 48.3	67.31 1710	51.13 1299	8.19 208	20.25 514	10.13 257	55.00 1397	47.44 1205	76.06 1932	531.59 241.1

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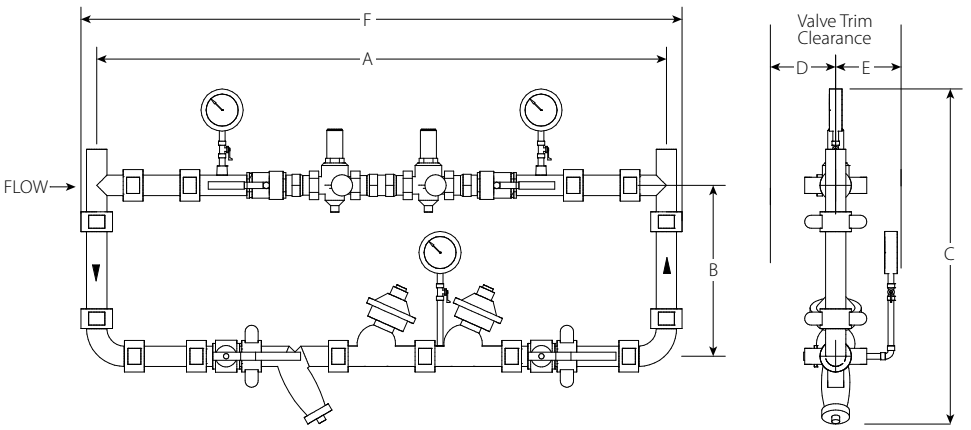
4.2 DIMENSIONS

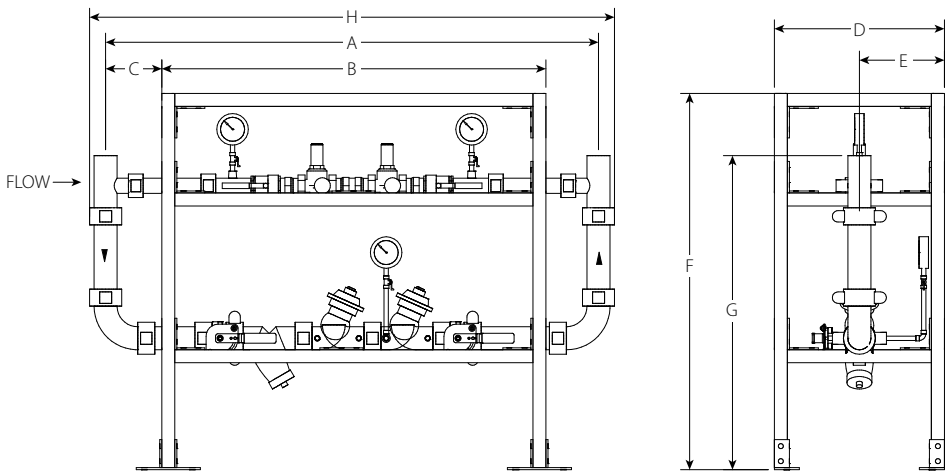
Series 386B – DL (No Rack)



Size						Dimensions						Weight
Nominal Primary Line x Low-Flow Bypass inches DN			Actual O.D. Primary Line x Low-Flow Bypass inches mm			A inches mm	B inches mm	C inches mm	D inches mm	E inches mm	F inches mm	Approx. (Each) lb kg
1 ½ DN40	x	1 ½ DN40	1.900 48.3	x	1.900 48.3	53.38 1356	19.38 492	31.38 797	6.25 159	6.25 159	59.19 1503	138 62.6

4.3 DIMENSIONS

Series 386B – DL (With Rack)



Size						Dimensions								Weight
Nominal Primary Line x Low-Flow Bypass inches DN			Actual O.D. Primary Line x Low-Flow Bypass inches mm			A inches mm	B inches mm	C inches mm	D inches mm	E inches mm	F inches mm	G inches mm	H inches mm	Approx. (Each) lb kg
2 DN50	x	1 ½ DN40	2.375 60.3	x	1.900 48.3	59.00 1499	46.25 1175	6.75 171	20.25 514	10.13 257	47.00 1194	38.19 970	65.13 1654	309.85 140.5
2 ½	x	1 ½ DN40	2.875 73.0	x	1.900 48.3	61.56 1564	48.00 1219	7.00 178	21.25 540	10.63 270	47.00 1194	39.19 995	68.31 1735	337.93 153.9
3 DN80	x	1 ½ DN40	3.500 88.9	x	1.900 48.3	64.56 1640	50.00 1270	7.63 194	22.25 565	11.13 283	50.00 1270	42.19 1072	72.06 1830	415.36 188.4
4 DN100	x	1 ½ DN40	4.500 114.3	x	1.900 48.3	80.25 2038	64.00 1626	8.13 207	23.25 591	11.63 295	55.00 1397	47.31 1202	89.00 2261	640.15 290.4

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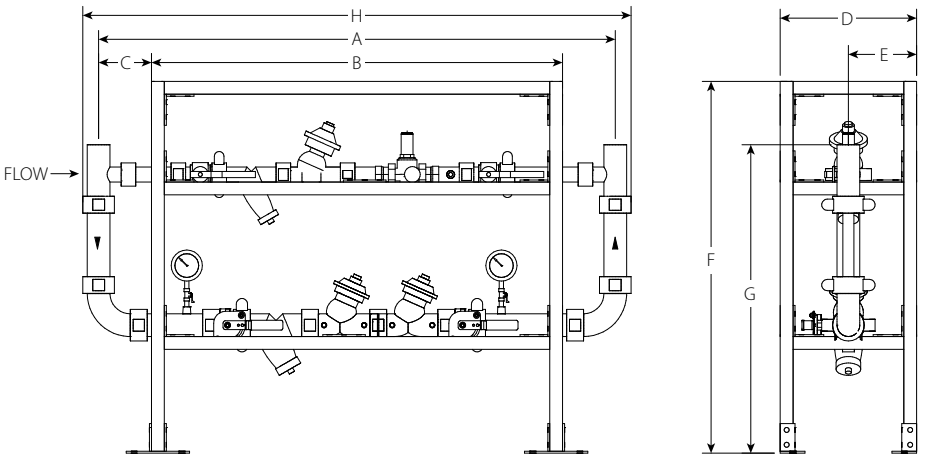
4.4 DIMENSIONS

Series 386C – DL (With Rack)



Size						Dimensions								Weight
Nominal			Actual O.D.			A	B	C	D	E	F	G	H	Approx. (Each)
Primary Line	x	Low-Flow Bypass	Primary Line	x	Low-Flow Bypass									
inches DN			inches mm			inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	lb kg
2 DN50	x	1 ½ DN40	2.375 60.3	x	1.900 48.3	65.50 1664	52.63 1337	7.25 184	17.25 438	8.63 219	47.00 1194	37.31 948	71.63 1819	314.00 142.4
2 ½	x	1 ½ DN40	2.875 73.0	x	1.900 48.3	65.31 1659	52.00 1321	6.69 170	17.25 438	8.63 219	47.00 1194	39.00 991	72.06 1830	339.92 154.2
3 DN80	x	1 ½ DN40	3.500 88.9	x	1.900 48.3	68.25 1734	55.00 1397	6.38 162	19.25 489	9.63 245	53.00 1346	42.19 1072	75.75 1924	408.01 185.1
4 DN100	x	1 ½ DN40	4.500 114.3	x	1.900 48.3	81.25 2064	65.00 1651	8.25 210	20.25 514	10.13 257	60.00 1524	50.31 1278	90.00 2286	542.39 246.0

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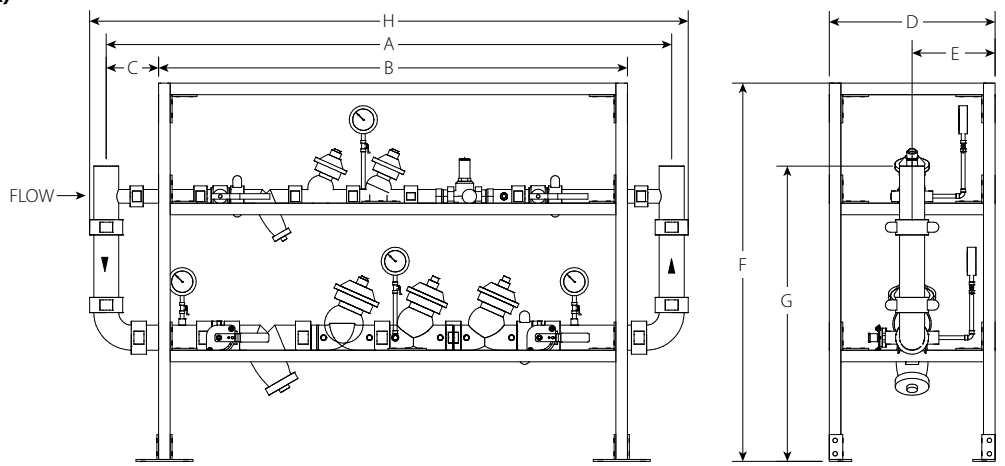
4.5 DIMENSIONS

Series 386D – DL (With Rack)



Size						Dimensions								Weight
Nominal Primary Line x Low-Flow Bypass inches DN			Actual O.D. Primary Line x Low-Flow Bypass inches mm			A inches mm	B inches mm	C inches mm	D inches mm	E inches mm	F inches mm	G inches mm	H inches mm	Approx. (Each) lb kg
2 DN50	x	1 ½ DN40	2.375 60.3	x	1.900 48.3	72.94 1853	60.38 1534	6.88 175	21.25 540	10.63 270	50.00 1270	38.31 973	79.06 2008	372.15 168.8
2 ½	x	1 ½ DN40	2.875 73.0	x	1.900 48.3	73.94 1878	60.50 1537	6.88 175	21.25 540	10.63 270	50.00 1270	40.00 1016	80.69 2050	407.49 184.8
3 DN80	x	1 ½ DN40	3.500 88.9	x	1.900 48.3	79.31 2014	65.75 1670	7.38 187	23.25 591	11.63 295	53.00 1346	41.38 1051	86.81 2205	497.24 225.5
4 DN100	x	1 ½ DN40	4.500 114.3	x	1.900 48.3	93.63 2378	77.50 1969	8.13 207	23.25 591	11.63 295	60.00 1524	50.06 1272	102.38 2600	669.08 303.5

5.0 PERFORMANCE

PRV Station Size						Maximum Flow for 8 ft/sec (2.4 m/sec) Velocity GPM LPM	Maximum Flow for 10 ft/sec (3.0 m/sec) Velocity GPM LPM
Nominal Primary Line x Low-Flow Bypass inches DN			Actual O.D. Primary Line x Low-Flow Bypass inches mm				
1 ½ DN40	x	1 ½ DN40	1.900 48.3	x	1.900 48.3	58 220	72 273
2 DN50	x	1 ½ DN40	2.375 60.3	x	1.900 48.3	92 348	115 435
2 ½	x	1 ½ DN40	2.875 73.0	x	1.900 48.3	136 515	170 644
3 DN80	x	1 ½ DN40	3.500 88.9	x	1.900 48.3	190 719	237 897
4 DN100	x	1 ½ DN40	4.500 114.3	x	1.900 48.3	326 1234	408 1544

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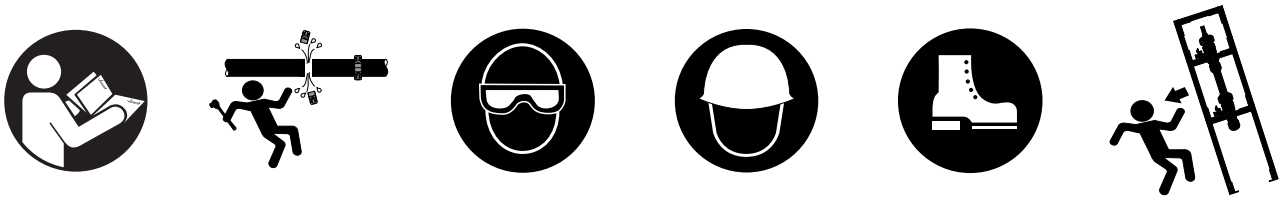
6.0 NOTIFICATIONS

⚠ WARNING



- **Read and understand all instructions before attempting to install any Victaulic piping products.**
- **Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.**
- **Wear safety glasses, hardhat, and foot protection.**
- **Verify that the proper equipment is available for handling the Pressure-Reducing Valve (PRV) Station.**
- **Use proper material handling techniques to prevent the PRV Station assembly from tipping.**
- **The PRV station shall be anchored securely to the floor or wall with appropriate fasteners for the substrate and load.**
- **Isolate each section and vent pressure before attempting to remove, adjust, or maintain the PRV Station.**

Failure to follow these instructions could result in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

02.06: Victaulic® Approvals for Potable Water Products
06.02: Victaulic® Zero-Flex™ Rigid Coupling Style 07
06.28: Victaulic® QuickVic™ Installation-Ready™ Rigid Coupling for Potable Water Applications Style 807N
08.73: Victaulic® Brass Body Ball Valve Series 722L
17.16: Victaulic® Stainless Steel OGS Fittings
17.22: Victaulic® Stainless Steel Ball Valve Series 726S
17.45: Victaulic® Vic-300 MasterSeal Stainless Steel Butterfly Valve for Potable Water Applications Series 861
Series 935-H/Model BC-CAP-P Direct Acting Pressure Reducing Valve Submittal
Series 935-H/Model BC-CAP-P Direct Acting Pressure Reducing Valve IOM
Series 968-F/Model BC-70F-P Strainer Submittal
Series 968-F/Model BC-70F-P Strainer IOM
Series 972/Model BC-720-P Pressure Reducing Valve Submittal
Series 972/Model BC-720-P Pressure Reducing Valve IOM
Series 972S-H/Model BC-72S-H-P Pressure Reducing System Submittal
Series 972S-H/Model BC-72S-H-P Pressure Reducing System IOM
Series 972-PD/Model BC-720-PD-P Proportional Pressure Reducing Valve Submittal
Series 972-PD/Model BC-720-PD-P Proportional Pressure Reducing Valve IOM
Series 972S-2B-H/Model BC-72S-2B-H-P Watchdog PRV Combo with Integrated Low-Flow Bypass Submittal
Series 972S-2B-H/Model BC-72S-2B-H-P Watchdog PRV Combo with Integrated Low-Flow Bypass IOM
I-PRV: Victaulic® Series 386 Pressure Reducing Valve (PRV Station) Installation Instructions
I-100: VIctaulic® Field Installation Handbook

User Responsibility for Product Selection and Suitability
Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation
Always refer to and follow the Victaulic Installation Handbook or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at victaulic.com.

Warranty
Refer to the Warranty section of the current Price List or contact Victaulic for details.

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Note
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