



Model 500XL3DUBP

Water Pressure Reducing Valve Double Union

For use as a low flow bypass in parallel with larger valve

Application

Zurn Wilkins model 500XL3DUBP designed for installation as a low flow bypass on potable water lines, for use in parallel with a larger pressure reducing valve. The model 500XL3DUBP includes restricting tailpieces to optimize function as a low flow bypass in parallel with a larger valve.

Standards Compliance

- ASSE® Listed 1003
- cUPC® Listed
- CSA® Certified
- Meets the requirements of NSF/ANSI/CAN 61 & 372*

Materials

Main valve body	Low lead cast bronze ASTM B806
Bell housing	Low lead cast bronze ASTM B806
Fasteners	Stainless steel, 300 series
Stem	Stainless steel, 300 series
Plunger	Stainless steel, 300 series
Elastomers	Buna Nitrile (FDA approved) EPDM (FDA approved)
Springs	Stainless steel, 300 series
Cartridge	Noryl™

Features

Sizes:	1", 1 1/2", 2"
Maximum working water pressure	400 psi
Maximum working water temperature	140° F
Reduced pressure range	15 psi to 75 psi
Factory preset	50 psi
Threaded connections (FNPT)	ANSI B1.20.1
Copper connections (Female)	ANSI B16.22
Flanged connections	ANSI B16.5



XL LEAD FREE



NSF/ANSI/CAN 61 & 372



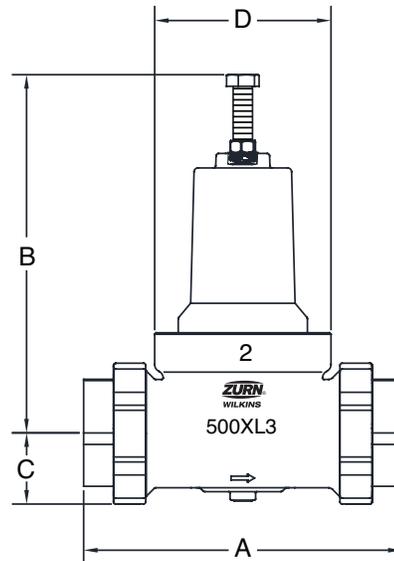
Options

(Suffixes can be combined)

- HR - high range, outlet adjust from 60 psi to 125 psi
- Y - with lead-free bronze "Y" strainer on inlet Y (300 psi strainer rating)
- G - tapped and plugged with gauge

Accessories

- Repair kit



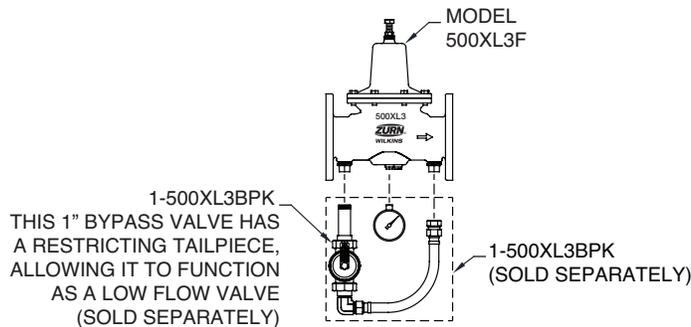
Dimensions & Weights (do not include pkg.)

SIZE		CONNECTIONS	DIMENSIONS (approximate)								WEIGHT	
			A		B		C		D		lbs.	kg.
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm		
1	25	DOUBLE UNION	5 1/2	140	5 3/8	137	1 3/8	35	2 3/4	70	3.4	1.5
1 1/2	40	DOUBLE UNION	8 5/16	211	7 1/2	191	1 3/4	44	4 9/16	116	10.7	4.9
2	50	DOUBLE UNION	8 3/8	213	9 1/4	235	1 3/4	44	4 9/16	116	12.9	5.9

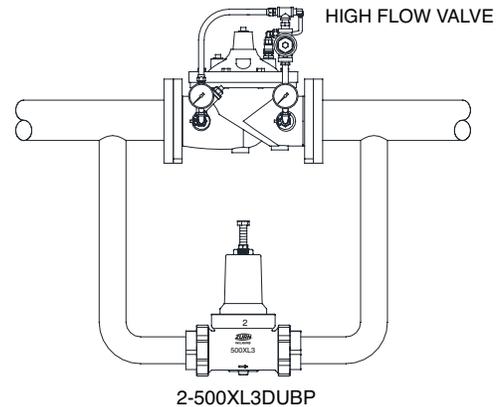
Typical Installation

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. The assembly shall be installed with sufficient side clearance for testing and maintenance. The Model 500XL3DUBP may be installed in any position. The Model 500XL3DUBP should be used as a parallel low flow bypass to handle flows according to table below. Set the bypass valve approximately 5 to 10 PSI higher than the large valve in a high-flow / low-flow parallel PRV battery. Multiple installations, in series (back to back) are recommended where the desired pressure reduction is more than 3 to 1 (ie: 150 psi inlet reduced to 50 psi outlet).

Caution: Anytime a pressure reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom-out adjustment bolt on bell housing.

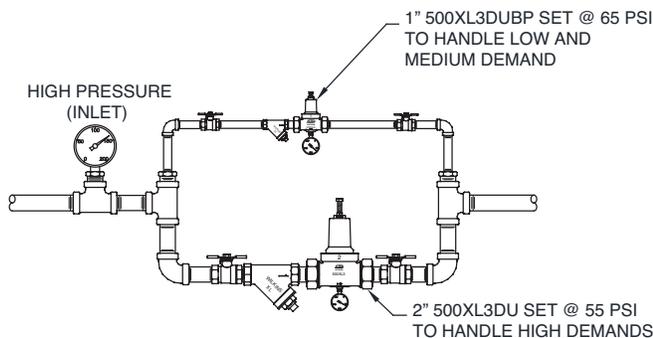


**INTEGRAL (KIT)
PARALLEL INSTALLATION**



THIS 2" BYPASS VALVE HAS RESTRICTING TAILPIECES, ALLOWING IT TO FUNCTION AS A LOW FLOW VALVE

PARALLEL INSTALLATION



DIRECTION OF FLOW ⇒

PARALLEL INSTALLATION

SIZE	Difference between set points of large and bypass valve		Suggested Valve Pairing
	5 psi	10 psi	
1" 500XL3DUBP	20 gpm	30 gpm	2 1/2" - 4" 500XL3(F)
1 1/2" 500XL3DUBP	45 gpm	60 gpm	4" ZW209
2" 500XL3DUBP	70 gpm	95 gpm	6" ZW209

NOTE: Maximum flow rates based on the pressure setting difference between bypass valve and large valve. Size bypass flow to meet minimum flow requirement of the large valve.

Specifications

The Pressure Reducing Valve shall be certified to NSF/ANSI/CAN 61 & 372, consisting of a low lead silicon bronze body and silicon bronze bell housing, and a bolt to adjust the downstream pressure. The bronze bell housing shall be threaded to the body. The assembly shall be of the balanced piston design and shall reduce pressure in both flow and and no-flow conditions with restricting tailpieces for ideal fall-off and low-flow bypass performance. The assembly shall be accessible for maintenance without having to remove the body from the line. Shall include a removable cartridge and corrosion resistant materials. The Pressure Reducing Valve shall be a ZURN WILKINS Model 500XL3DUBP.