Model 500XL3



Water Pressure Reducing Valve

Application

Zurn Wilkins model 500XL3 designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The patented integral venturi enables the valve to have best-in-class flow performance. The high flow capacity makes this device most suitable for commercial plumbing systems and Industrial water lines. The direct acting integral by-pass design prevents buildup of excessive system pressure caused by thermal expansion (1" - 2"). The balanced piston design enables the pressure reducing valve to react in a smooth and responsive manner to changes in system flow demand, while at the same time, providing protection from inlet pressure changes. Includes a removable cartridge and corrosion resistant materials.

Standards Compliance

- ASSE® Listed 1003
- IAPMO® 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
-	Cast bronze ASTM B584 (2-1/2" - 4")
Fasteners	Stainless steel, 300 series
Stem	Stainless steel, 300 series
Plunger	Stainless steel, 300 series
	Low lead cast bronze ASTM B806 (2-1/2" - 4")
Elastomers	Buna Nitrile (FDA approved)
	EPDM (FDA approved)
Springs	Stainless steel, 300 series
	Chrome Silicon, Epoxy Coated (2-1/2" - 4")
Cartridge	Noryl™

Features

Sizes: 1", 1 1/4", 1 1/2", 2", 2-1/2", 3", 4"				
Maximum working water pressure	400 psi			
Maximum working water temperature	140° F			
Reduced pressure range	25 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			

Dimensions & Weights (do not include pkg.)



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Options (Suffixes can be combined)

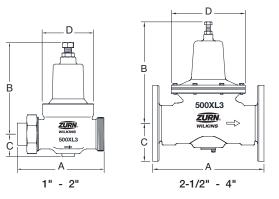
	-	standard with single union FNPT inlet x FNPT
		outlet (1" thru 2") or less union (2-1/2" - 3")
🗆 DU	-	double union FNPT x FNPT (1" - 2")
	-	double union Copper Sweat x Sweat (1" - 2")
□C	-	single union Copper Sweat x FNPT (1" - 2")
🗆 F	-	Flanged Class 150 (2-1/2" - 4")
🗆 HR	-	high range, outlet adjust from 75 psi to 125 psi
□ Y	-	with lead-free bronze "Y" strainer on inlet
		(epoxy coated ductile iron for 2-1/2" - 4"

- flanged valve)
- \Box G tapped and plugged with gauge

Accessories

Repair kit \square

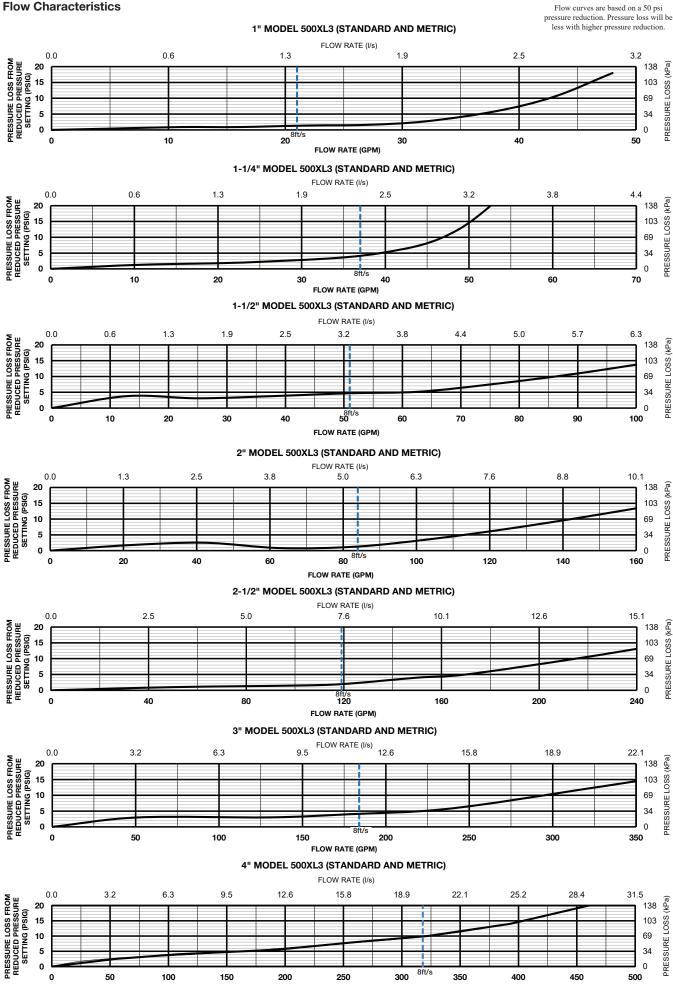
- 1-500XL3BPK 1"-500XL3HRBPK
- (used with 2-1/2", 3" and 4" 500XL3FBP) 1-500XL3DUBP & 1-500XL3DUHRBP \square (used with 2-1/2" - 3" 500XL3) *To be plumbed in parallel, fittings not included



SIZE			DIMENSIONS (approximate)								WEIGHT	
		CONNECTIONS	A		В		C		D		WEIGHT	
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
1	25	SINGLE UNION	4 5/8	117	5 3/8	137	1 3/8	35	2 3/4	70	3	1.4
1	25	LESS UNION	3 3/4	95	5 3/8	137	1 3/8	35	2 3/4	70	2.6	1.2
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 1/4	32	SINGLE UNION	5	127	6 7/16	164	1 3/16	30	2 3/4	70	3.8	1.7
1 1/4	32	LESS UNION	3 7/8	98	6 7/16	164	1 3/16	30	2 3/4	70	3.1	1.4
1 1/4	32	DOUBLE UNION	6 1/8	156	6 7/16	164	1 3/16	30	2 3/4	70	4.5	2.0
1 1/2	40	SINGLE UNION	7 1/16	179	7 1/2	191	1 3/4	44	4 9/16	116	9.6	4.4
1 1/2	40	LESS UNION	5 13/16	148	7 1/2	191	1 3/4	44	4 9/16	116	8.5	3.9
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	SINGLE UNION	7 3/16	183	9 1/4	235	1 3/4	44	4 9/16	116	11.3	5.1
2	50	LESS UNION	6	152	9 1/4	235	1 3/4	44	4 9/16	116	9.8	4.4
2	50	DOUBLE UNION	8 3/8	213	9 1/4	235	1 3/4	44	4 9/16	116	12.9	5.9
2 1/2	65	LESS UNION	8 13/16	224	10 1/4	260	2 5/8	67	7 5/16	186	25	11.3
2 1/2	65	FLANGED	10 3/8	264	10 1/4	260	2 5/8	67	7 5/16	186	35.6	16.1
3	80	LESS UNION	8 13/16	224	10 1/4	260	2 13/16	71	7 5/16	186	27.1	12.3
3	80	FLANGED	11	279	10 1/4	260	2 13/16	71	7 5/16	186	40.7	18.5
4	100	FLANGED	11 7/8	302	10 1/4	260	4 1/2	114	7 5/16	186	48.1	21.9

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Rev. C Date: 9/22 Document No. REG-500XL3 Product No. Model 500XL3 Patent zurn.com/patents US & FOREIGN PAT. PENDING

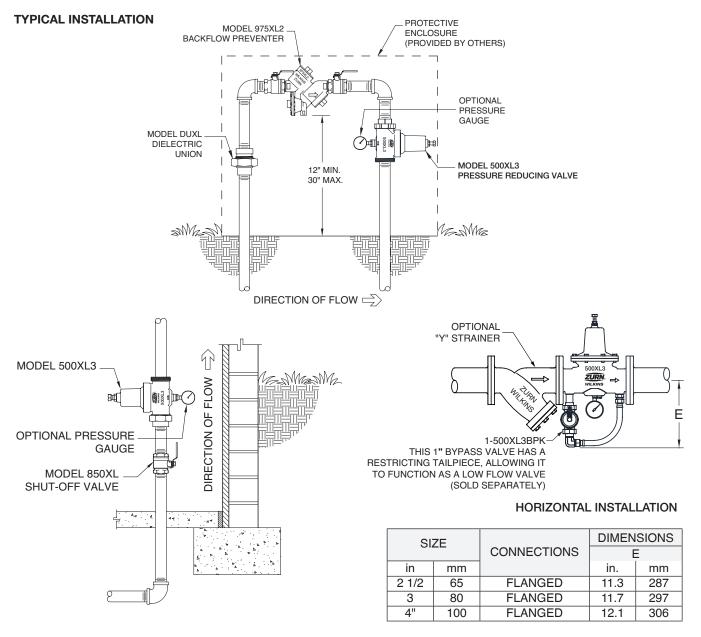


FLOW RATE (GPM)

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 500XL3 may be installed in any position. Multiple installations in series are required when the desired pressure reduction is more than 3 to 1 (i.e. 150 psi inlet reduced to 50 psi outlet). If using a 2-1/2", 3" or 4" valve at low flows and higher pressure reduction ratios above 3 to 1, you may need a low flow bypass to handle flows under 10 gpm. Set the bypass valve approximately 5 to 10 psi higher than the large valve. This is easily accomplished with the 500XL3FBP and the low flow bypass kit, 1-500XL3BPK, or the 500XL3 and 1-500XL3DUBP. Due to highly efficient flow performance, only use the 500XL3BPK or 500XL3DUBP as low flow bypass valve options.

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.



VERTICAL INSTALLATION

PARALLEL INSTALLATION

Specifications

The Pressure Reducing Valve shall be certified to NSF/ANSI/CAN 61 & 372, consisting of a low lead cast bronze body and bronze bell housing, and a bolt to adjust the downstream pressure. The bronze bell housing shall be threaded to the body on the 1"-2" sizes or affixed to the body with stainless steel bolts on the 2-1/2", 3" or 4" sizes. The assembly shall be of the balanced piston design and shall reduce pressure in both flow and no-flow conditions with integral venturi for improved flow 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 500XL3.