



Model 500XL3F

Flanged Water Pressure Reducing Valve

Tapped and Plugged for Integral Low Flow Bypass Kit

Application

Zurn Wilkins model 500XL3 is 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 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. Body is drilled, tapped, and plugged to accept low flow by-pass kit (Model 1-500XL3BPK)



XL LEAD FREE



NSF/ANSI/CAN 61



Standards Compliance

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

Options

(Suffixes can be combined)

- HR - spring range is 75-125 psi, factory set at 85 psi
- Y - flanged "Y" strainer with epoxy coated ductile iron
- G - with gauge

Materials

Main valve body	Low lead cast bronze ASTM B806
Bell housing	Cast bronze ASTM B584
Fasteners	Stainless steel, 300 Series
Stem	Stainless steel, 300 Series
Plunger	Low lead cast bronze ASTM B806
Elastomers	Buna Nitrile (FDA approved) EPDM (FDA approved)
Springs	Chrome Silicon, Epoxy Coated
Cartridge	Noryl™

Accessories

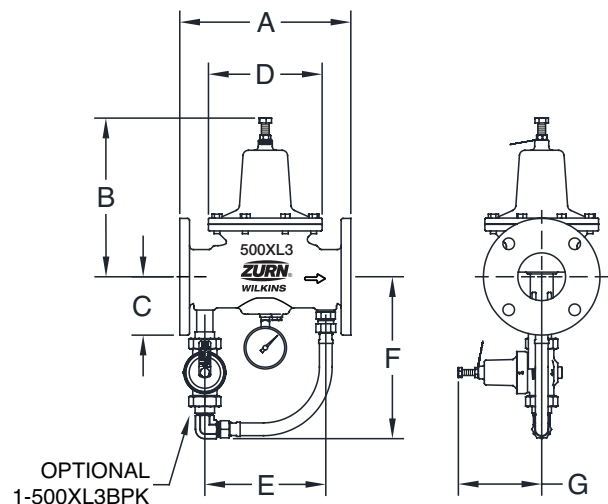
- Repair kits
- By-Pass Kit: (Fittings included). *See Inst. on page 2
1-500XL3BPK - 1"-500XL3HRBPK
(used with 2-1/2" to 4" 500XL3F)
- By-Pass Valve: (Fittings not included, to be plumbed in parallel). *See Inst. on page 2
1-500XL3DUBP & 1-500XL3DUHRBP
(used with 2-1/2" - 3" 500XL3)

Features

Sizes: 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
End connections (flanged)	ANSI B16.24 Class 150

Tapped and plugged for gauge (1/4 NPT)

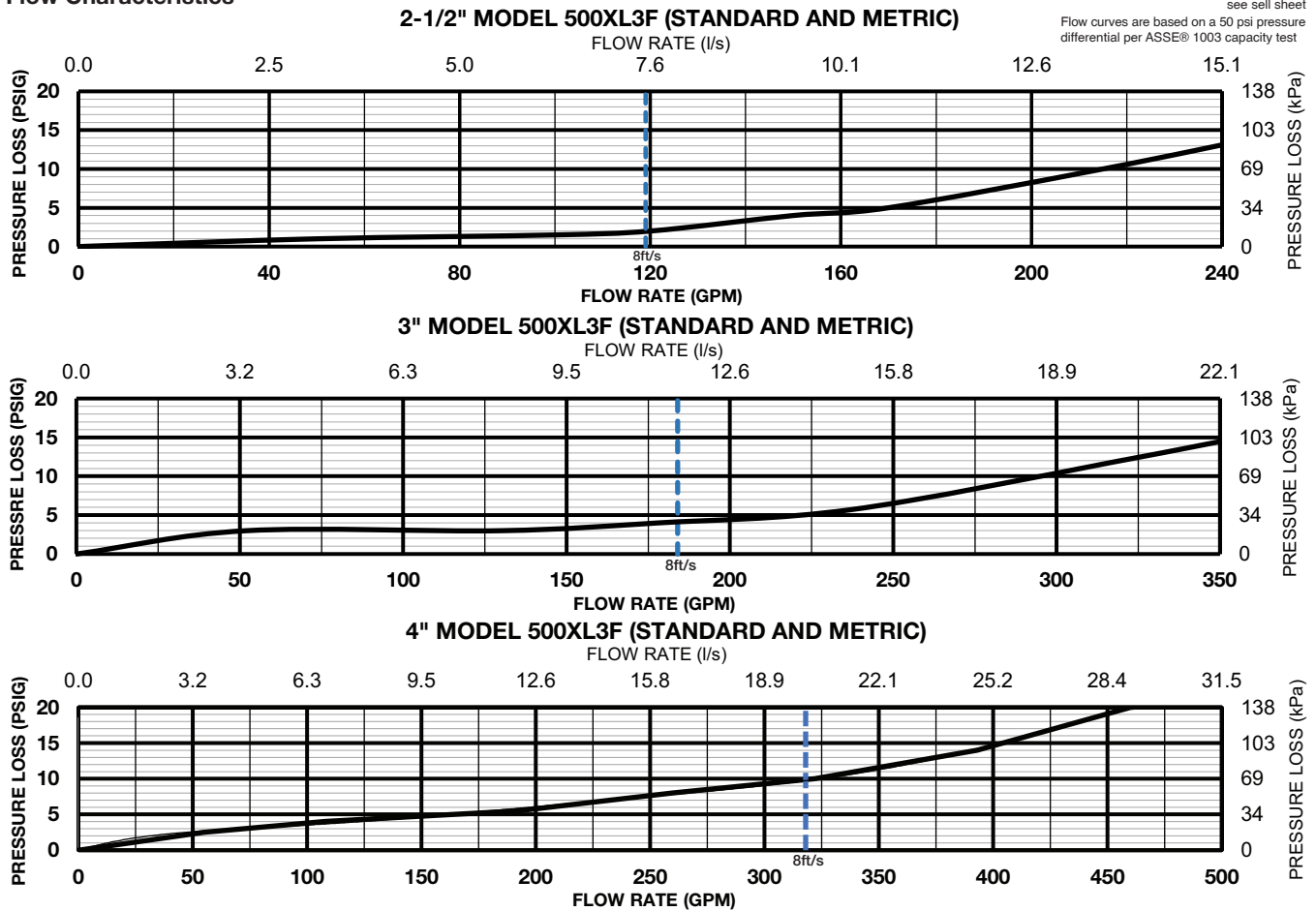


Dimensions & Weights (do not include pkg.)

SIZE		CONNECTIONS	DIMENSIONS (approximate)										WEIGHT					
in.	mm		A		B		C		D		E		lbs.		kg.			
2 1/2	65	FLANGED	10 3/8	264	10 1/4	260	2 5/8	67	7 5/16	186	7 25/32	198	36	16.3				
3	80	FLANGED	11	279	10 1/4	260	2 13/16	71	7 5/16	186	7 25/32	198	41.1	18.6				
4	100	FLANGED	11 7/8	302	10 1/4	260	4 1/2	114	7 5/16	186	7 25/32	198	48.9	22.2				
															OPTIONAL 1-500XL3BPK			
															F		G	
															in.	mm	in.	mm
															11 5/16	287	5 3/8	137
															11 11/16	297	5 3/8	137
															12	305	5 3/8	137

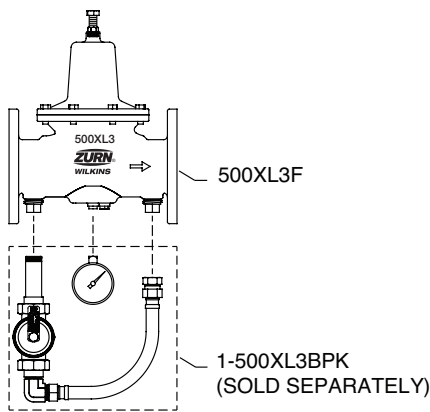
Flow Characteristics

The dashed line is the typical plumbing design limit, see sell sheet
Flow curves are based on a 50 psi pressure differential per ASSE® 1003 capacity test

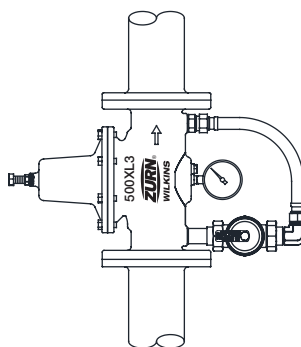


Typical Installation

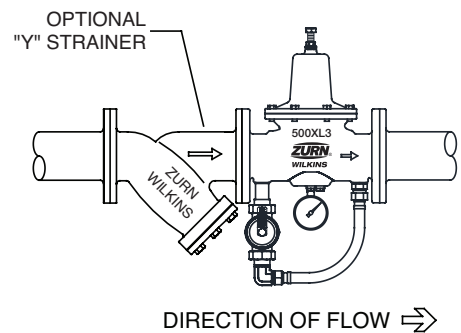
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. The assembly shall be installed with sufficient side clearance for testing and maintenance. The Model 500XL3F may be installed in any position. Multiple installations, in series (back to back) are recommended for wide demand variations or where the desired pressure reduction is more than 3 to 1 (ie: 150 psi inlet reduced to 50 psi outlet). **CAUTION:** Anytime a reducing valve is adjusted, a pressure gauge must be used downstream to verify correct pressure setting. Do not bottom adjustment bolt on bell housing.



Parallel Installation



Vertical Installation



Horizontal Installation

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 affixed to the body with stainless steel bolts. 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 tapped and plugged to accept a Model 1-500XL3BPK low flow by-pass kit. The Pressure Reducing Valve shall be a ZURN WILKINS Model 500XL3F.