

Model 500> Water Pressure Reducing Valve with Integral By-pass Check Valve

# SPECIFICATION SUBI







## ATURES

FEATURES											
Sizes: 🗆 1/2" 🗆 3/4" 🗖 1" 🗖 1 1/4"											
□1 1/2" □ 2" □ 2 1/2" □ 3"											
Maximum working water pressure 300 psi											
Maximum working water temperature 180° F											
Reduced pressure range 25 psi to 75 ps	si										
Factory preset (fieldset 2 1/2" & 3") 50 psi											
Threaded connections (FNPT) ANSI B1.20.1											
Copper connections (FC) ANSI B 16.22											
CPVC tailpiece: Max.hot water temp. 180°F @ 100 ps											
Cold water rated temp. 73.4°F @ 400 ps											
<b>OPTIONS</b> (Suffixes can be combined)	,										
<ul> <li>standard with single union FNPT inlet x FNPT</li> </ul>	Г										
outlet (1/2" thru 2") and less union (21/2" & 3")											
$\Box$ C - copper sweat connection (1/2" thru 2")	/										
<ul> <li>HR - 75 psi to 125 psi spring range, factory set</li> </ul>											
at 85 psi (fieldset 2 1/2" & 3")											
■ HLR - 10 psi to 125 psi spring range, factory set											
at 50 psi											
$\square$ HT - 210°F maximum temp											
<ul> <li>L - less integral by-pass check valve (3/4"-2")</li> </ul>											
$\square$ LPV - 210°F maximum temp with 10 psi to 35 psi											
spring range, factory set at 20 psi											
□ LPC - 180°F maximum temp with 10 psi to 35 psi											
spring range, factory set at 20 psi											
SC - sealed cage bell housing and stainless steel											
adjustment screw											
□ YSBR - with lead-free bronze "Y" strainer on inlet											
□ 510 - 400 psi inlet rating and 75 psi to 125 psi											
spring range, factory set at 85 psi											
(fieldset 2 1/2" & 3")											
P - tapped and plugged for gauge											
$\square$ CPVC - CPVC tailniece connection (3/4"-1")											

□ CPVC - CPVC tailpiece connection (3/4"-1")

## **ACCESSORIES**

Repair kit (rubber only)

## DIMENSIONS & WEIGHTS (do not include pkg.)

## **APPLICATION**

Ideal for use where lead free valves are required. Designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The high flow capacity makes this device most suitable for industrial water lines and commercial irrigation systems. The direct acting integral by-pass design prevents buildup of excessive system pressure caused by thermal expansion. The balanced piston design enables the regulator 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.

## STANDARDS COMPLIANCE

- ASSE® Listed 1003 (1/2" thru 2 1/2")
- IAPMO® Listed (1/2" thru 2")
- CSA® Certified (1/2" thru 2")
- City of Los Angeles Approved (1/2" thru 3")

## LEAD PLUMBING LAW COMPLIANCE

(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Lead Plumbing Law Certified by IAPMO R&T (1/2"-3")

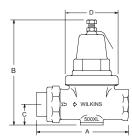
#### MATERIALS

Main valve body Cast bronze ASTM B 584 Access covers Fasteners Stem & plunger Elastomers Cap gaskets

Cast bronze ASTM B 584 Brass ASTM B 371, UNS C69300 Stainless steel, 300 series Cast bronze ASTM B 584 Brass ASTM B 371, UNS C69300 Buna Nitrile (FDA approved) EPDM (FDA approved) Natural vulcanized fibre Acetal (Delrin<sup>™</sup> 500), NSF Listed Oil tempered wire, ASTM A 229 Stainless steel, 300 series

Seat

Springs



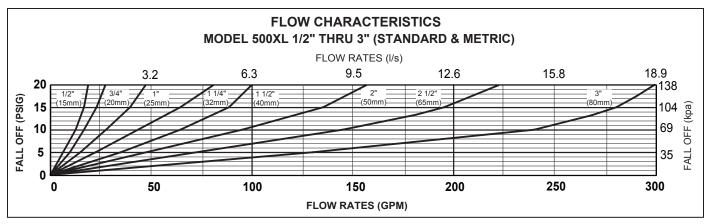
REG-500XL

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			1		DIME						r	
SIZE			DIMENSIONS (approximate)								WEIGHT	
		CONNECTIONS	A		В		С		D			
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
1/2	15	SINGLE UNION	4 1/2	108	6	152	1 5/8	41	2 3/4	70	3	1.5
3/4	20	SINGLE UNION	4 5/8	118	6	152	1 1/8	29	2 3/4	70	4	2.0
1	25	SINGLE UNION	5 1/8	130	6 7/8	175	1 5/8	41	3 5/16	84	6	3.0
1 1/4	32	SINGLE UNION	6 5/16	160	7 1/4	184	1 3/4	45	4	102	7	3.0
1 1/2	40	SINGLE UNION	8 5/16	211	10	254	1 7/8	48	5	127	14	6.5
2	50	SINGLE UNION	9 1/2	241	10 3/4	273	2 1/8	54	6 1/2	165	20	9.0
2 1/2	65	LESS UNION	10	254	14 1/2	368	3	76	8	203	28	12.5
3	80	LESS UNION	11 1/8	283	16	406	3 1/2	89	8	203	44	20.0
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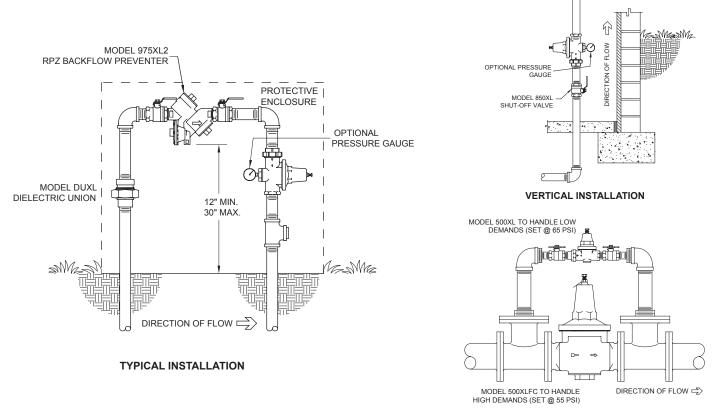
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WILKINS a Zurn company, 1747 Commerce Way, Paso Robles, CA 93446 Phone:805/238-7100 Fax:805/238-5766 In Canada: ZURN INDUSTRIES LIMITED, 3544 Nashua Dr., Mississauga, Ontario L4V 1L2 Phone:905/405-8272 Fax:905/405-1292 Product Support Help Line: 1-877-BACKFLOW (1-877-222-5356) • Website: http://www.zurn.com



#### **TYPICAL INSTALLATION**

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted 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 500XL may be installed in any position. If installed in a pit, vault, or inside application, specify the "SC" sealed cage option. Multiple installations are recommend for wide demand variations or where the desired pressure reduction is more than 4 to 1 (i.e.: 200 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.



#### BATTERY INSTALLATION

## SPECIFICATIONS

The Pressure Reducing Valve shall be ANSI 3<sup>rd</sup> party certified to comply with states' lead plumbing law 0.25% maximum weighted average lead content requirement, consist of a bronze body and bell housing, a separate access cover for the plunger and a bolt to adjust the downstream pressure. The bronze bell housing and access cap shall be threaded to the body and shall not require the use of ferrous screws. The assembly shall be of the balanced piston design and shall reduce pressure in both flow and no-flow conditions. The assembly shall be accessible for maintenance without having to remove the body from the line. The Pressure Reducing Valve shall be a WILKINS Model 500XL.