

Model 500XLHTSTSCYSB

Water Pressure Reducing Valve with Integral By-pass Check Valve

Application

Designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure.

The 500XLHTSTSCYSBR valves are ideal for continuous hot water recirculation systems

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 2")
- Meets the requirements of NSF/ANSI 61*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Materials

Main valve body Low Lead Cast bronze ASTM B 584 Access covers Low Lead Cast bronze ASTM B 584

Low Lead Brass

Stainless steel, 300 series **Fasteners**

Low Lead Cast bronze ASTM B 584 Stem & plunger

Low Lead Brass

Elastomers Buna Nitrile & Teflon diaphragm

Viton Gaskets, o-rings Natural vulcanized fibre

Cap gaskets Acetal (Delrin™ 500)

SS ASTM A313 **Springs**

Stainless steel, 300 series Strainer screen

(20 mesh standard)

SS 300 Series Seat

Features

Sizes: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3"

Maximum working water pressure 300 psi 180° F Maximum working water temperature

Reduced pressure range 25 psi to 75 psi Factory preset 50 psi

Threaded connections (FNPT) ANSI B1.20.1 Copper connections (FC) **ANSI B16.22**







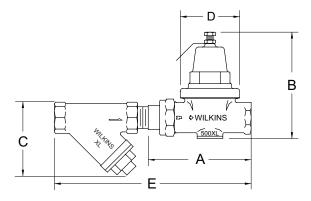
Options

(Suffixes can be combined)

- standard with single union FNPT inlet x FNPT outlet (1/2" thru 2") and less union (2 1/2" & 3") Includes in-line lead-free bronze "Y" type strainer with 20 mesh stainless steel screen
 - 180°F maximum temp
 - C copper sweat connection valve only 1/2" thru 2" copper sweat strainer 3/4" & 1" only
- All other strainers are FNPT HR - 75 psi to 125 psi spring range, factory set
- at 85 psi
- HLR 10 psi to 125 psi springe range, factory set at 50 psi
- LPV 180°F maximum temp with 10 psi to 35 psi spring range, factory set at 20 psi
- P tapped and plugged for gauge
- G tapped and plugged with gauge

Accessories

Repair kit (rubber only)



Dimensions & Weights (do not include pkg.)

SIZE			DIMENSIONS (approximate)										WEIGHT	
		CONNECTIONS	Α		В		C		D		E		WEIGHT	
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
1/2	15	SINGLE UNION	4 1/2	108	6	152	3	76	2 3/4	70	8 1/4	210	5	2.3
3/4	20	SINGLE UNION	4 5/8	118	6	152	3 1/2	89	2 3/4	70	9 1/8	232	6	2.7
1	25	SINGLE UNION	5 1/8	130	6 7/8	175	4	102	3 5/16	84	10	254	7	3.2
1 1/4	32	SINGLE UNION	6 5/16	160	7 1/4	184	4 3/4	121	4	102	13 1/8	333	9	4.1
1 1/2	40	SINGLE UNION	8 5/16	211	10	254	5	127	5	127	17 5/8	448	16	7.3
2	50	SINGLE UNION	9 1/2	241	10 3/4	273	6	152	6 1/2	165	18 5/8	473	24	10.9
2 1/2	65	LESS UNION	10	254	14 1/2	368	7 1/2	191	8	203	19 3/8	492	43	19.5
3	80	LESS UNION	11 1/8	283	16	406	8 1/2	216	8	203	25	635	60	27.2

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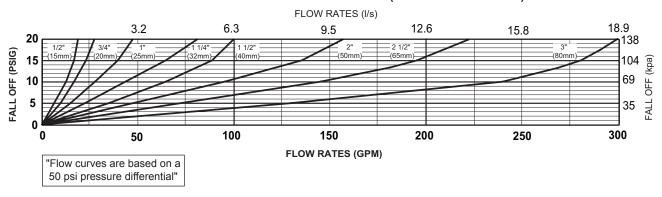
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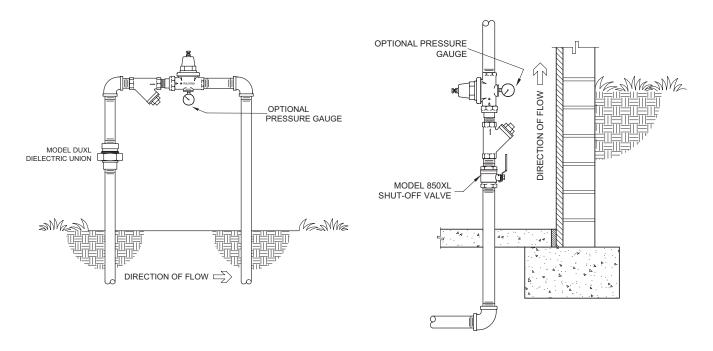
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MODEL 500XLHTSTSCYSBR 1/2" THRU 3" (STANDARD & METRIC)



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 500XLHTSTSCYSBR may be installed in any position. Multiple installations are recommend for wide demand variations or where the desired pressure reduction is more than 4 to 1 (ie: 200 psi inlet reduced to 50 psi outlet). <u>CAUTION:</u> 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.



HORIZONTAL INSTALLATION

VERTICAL INSTALLATION

Specifications

The Pressure Reducing Valve shall be certified to NSF/ANSI 61, consist of a low lead 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 ZURN WILKINS Model 500XLHTSTSCYSBR.