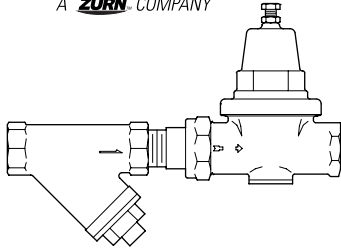


### Model 500YSBR

Water Pressure Reducing Valve  
with Integral By-pass Check Valve



#### 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 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 bronze "Y" type strainer with 20 mesh stainless steel screen
- C - copper sweat connection (1/2" thru 2")
- HR - 75 psi to 125 psi spring range, factory set at 85 psi
- HLR - 10 psi to 125 psi spring range, factory set at 50 psi
- HT - 210°F maximum temp
- 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
- SW - made for salt water service
- 510 - 400 psi inlet rating and 75 psi to 125 psi spring range, factory set at 85 psi
- P - tapped and plugged for gauge

#### ACCESSORIES

- Repair kit (rubber only)

#### APPLICATION

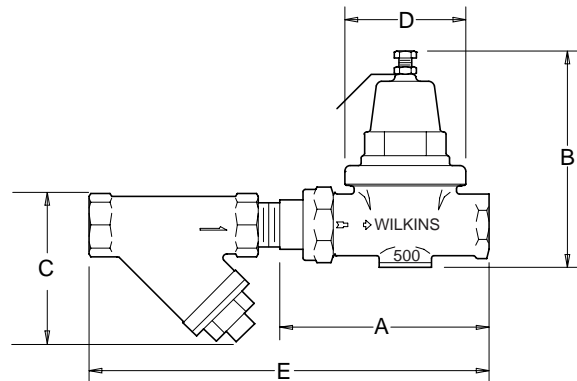
Designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The high flow capacity makes this device most suitable for industrial water lines and commercial irrigation systems. The balanced piston design enables the regulator to react in a smooth and responsive 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")
- City of Los Angeles Approved (1/2" thru 2 1/2")
- CSA® Certified (1/2" thru 2")

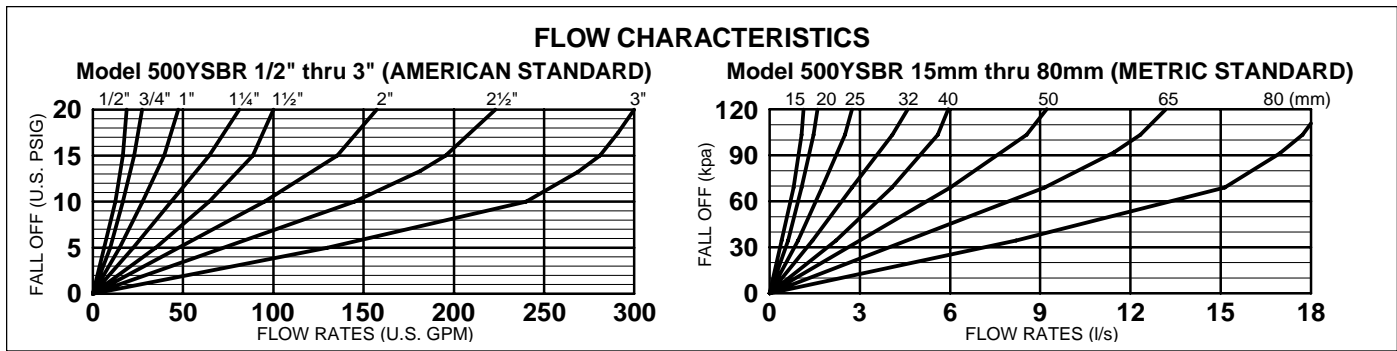
#### MATERIALS

Main valve body    Cast bronze ASTM B 584  
 Access covers    Cast bronze ASTM B 584  
                           Brass ASTM B 16  
 Fasteners    Stainless steel, 300 series  
 Stem & plunger    Cast bronze ASTM B 584  
                           Brass ASTM B 16  
 Elastomers    Buna Nitrile (FDA approved)  
                           EPDM (FDA approved)  
 Cap gaskets    Natural vulcanized fibre  
                           Acetal (Delrin™ 500), NSF Listed  
 Springs    Oil tempered wire, ASTM A 229  
 Strainer screen    Stainless steel, 300 series  
                           (20 mesh standard)



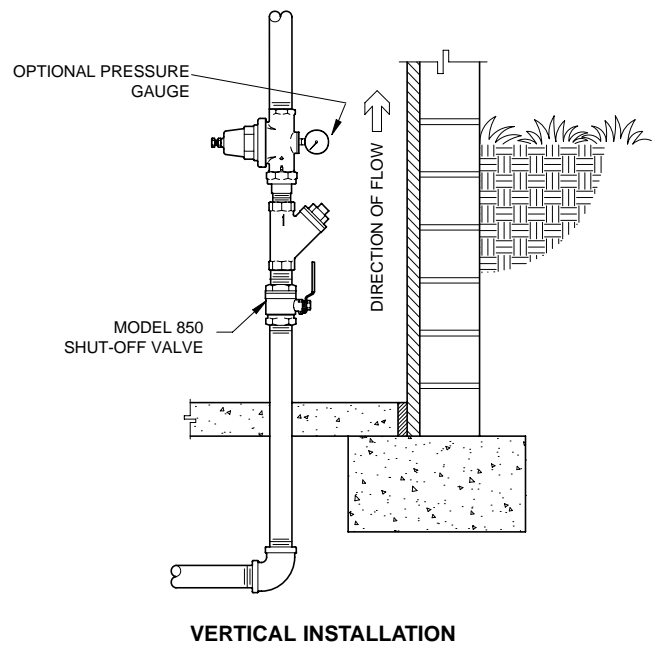
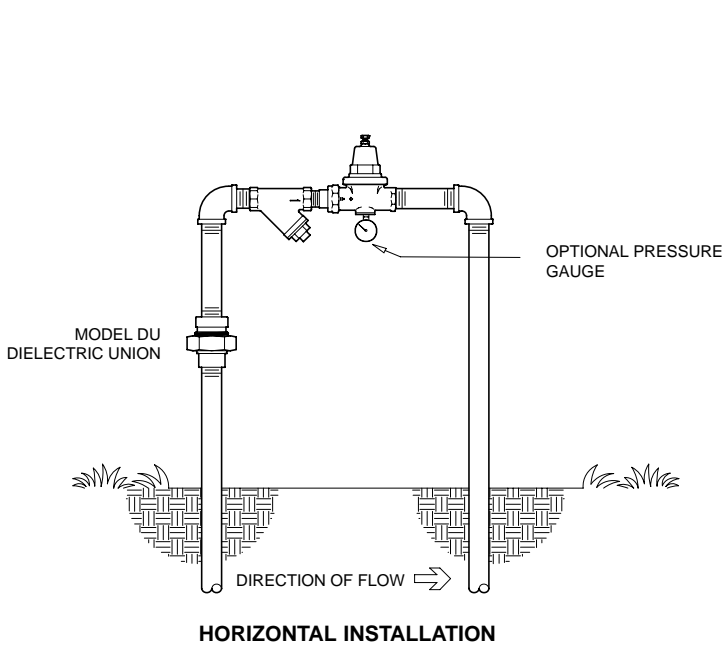
#### DIMENSIONS & WEIGHTS (do not include pkg.)

SIZE		CONNECTIONS	DIMENSIONS (approximate)										WEIGHT	
in.	mm		A		B		C		D		E		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 1/3	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



## 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 500YSBR may be installed in any position. If installed in a pit or vault, specify the "SC" sealed cage option. Multiple installations are recommended 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). **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.



## SPECIFICATIONS

The pressure reducing valve shall 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 500YSBR.