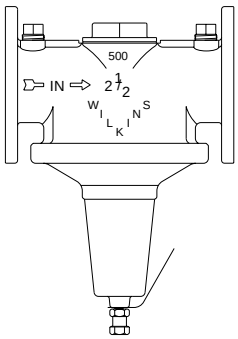
WILKINS
A ZURN COMPANY

SPECIFICATION SUBMITTAL SHEET

Model 500FCBP

Flanged Water Pressure Reducing Valve
with Bypass Connections



FEATURES

Sizes: ❑ 2" ❑ 2½" ❑ 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
End connections (flanged)	ANSI B16.1 Class B

OPTIONS

(Suffixes can be combined)

- ❑ 510FC - 400 psi inlet rating, 75 psi to 125 psi spring range, factory set at 85 psi
- ❑ FS - with cast iron "Y" type flanged strainer (2½" & 3" only)
- ❑ FSC - with cast iron "Y" type flanged strainer, fusion epoxy coated, inside and out (2½" & 3" only)
- ❑ HR - spring range is 75-125 psi, factory set at 85 psi
- ❑ HLR - spring range is 10-125 psi, factory set at 50 psi
- ❑ HT - high temperature application, up to 210° F
- ❑ LPV - high temperature application, up to 210° F, spring range is 10-35 psi, factory set at 20 psi
- ❑ LPC - spring range is 10-35 psi, factory set at 20 psi
- ❑ SW - made for salt water service
- ❑ P - tapped and plugged for gauge
- ❑ 34-BR4DUBPK - with low flow by-pass kit

ACCESSORIES

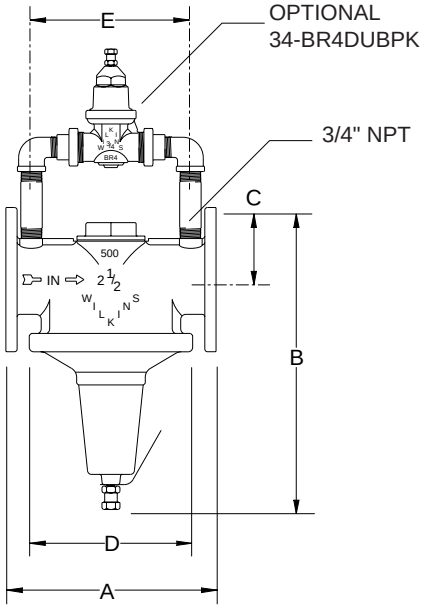
- ❑ Repair kit (rubber only)

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. Body is drilled, tapped and plugged to accept low flow by-pass (Model 34-BR4DUBPK).

MATERIALS

Body & cover	Cast bronze, ASTM B 584
Bell housing	Cast bronze, ASTM B 584
Stem & plunger	Cast bronze, ASTM B 584
Seat	Stainless steel, 300 Series
Elastomers	EPDM (FDA approved)
	Buna nitrile (FDA approved)
Polymers	Delrin™, NSF Listed

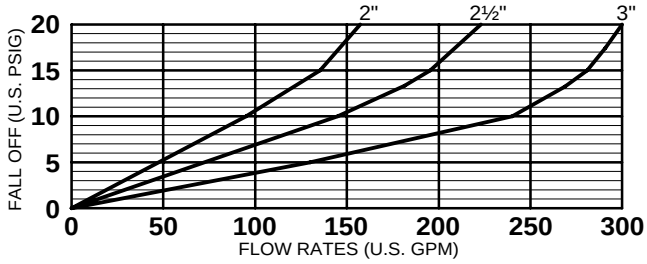


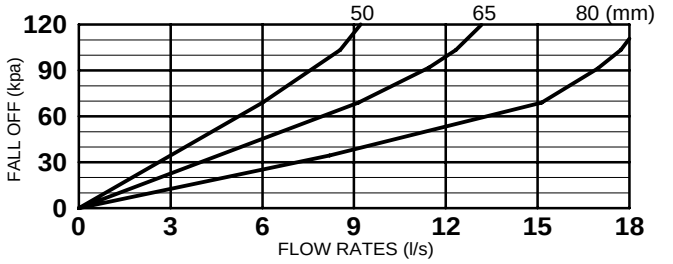
DIMENSIONS & WEIGHTS (do not include pkg.)

SIZE		CONNECTIONS	DIMENSIONS (approximate)										WEIGHT	
			A		B		C		D		E			
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
2	50	FLANGED	10 3/8	263	15	381	3	76	6 1/2	165	7 3/4	197	30	13.5
2 1/2	65	FLANGED	10 3/8	263	15	381	3	76	8	203	7 3/4	197	30	13.5
3	80	FLANGED	11	279	17 3/4	451	3 3/4	95	8	203	7 3/4	197	50	22.5

DOCUMENT NO. REG-500FCBP | REV. 12/99

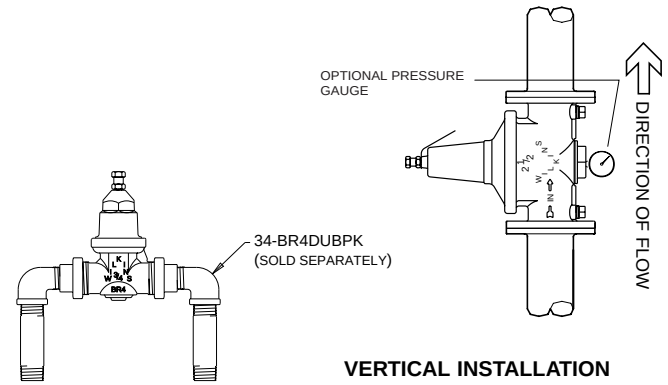
FLOW CHARACTERISTICS



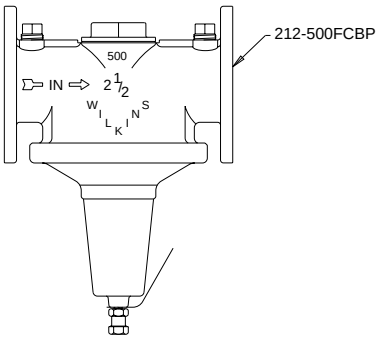


TYPICAL INSTALLATION

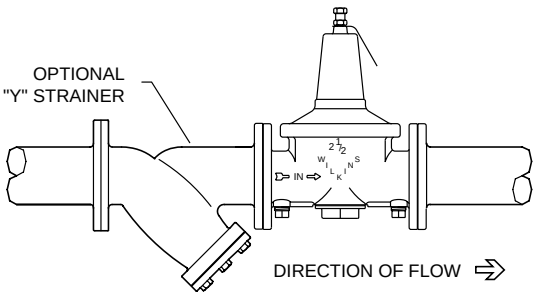
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. The assembly shall be installed with sufficient side clearance for testing and maintenance. The Model 500FCBP may be installed in any position. 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.



VERTICAL INSTALLATION



PARALLEL INSTALLATION



HORIZONTAL INSTALLATION

SPECIFICATIONS

The pressure reducing valve shall consist of a bronze body and bell housing with flanged connections, shall have a separate access cover for the plunger and shall have a bolt to adjust the downstream pressure. The assembly shall be of the balanced piston design and shall reduce pressure in both flow and no-flow conditions. The bronze bell housing and access cap shall be threaded to the body and shall not require the use of ferrous screws. The pressure reducing valve shall be tapped and plugged to accept a Model 34-BR4DUBPK low flow by-pass kit. The pressure reducing valve shall be a WILKINS Model 500FCBP.

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