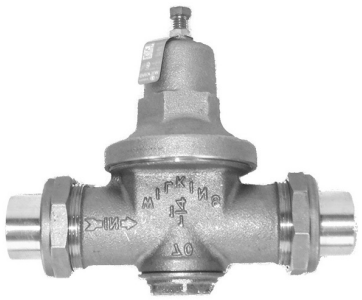
WILKINS
a ZURN company

Model 70DU

Water Pressure Reducing Valve with Double Union Connections, Integral By-pass Check Valve and Strainer

SPECIFICATION SUBMITTAL SHEET



APPLICATION

Designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The double female union connections makes this device most suitable for applications with minimal clearance and installations requiring frequent off-site maintenance. 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.

FEATURES

Sizes: ❑ 1¼" ❑ 1½" ❑ 2"

Maximum working water pressure	300 psi
Maximum working water temperature	180°F
Reduced pressure range	25 psi to 75 psi
Factory preset	50 psi
Hydrostatic test pressure	300 psi
End connectionsThreaded	ANSI B1.20.1

STANDARDS COMPLIANCE

- CSA® Certified
- City of Los Angeles Approved
- IAPMO® Listed

OPTIONS

(Suffixes can be combined)

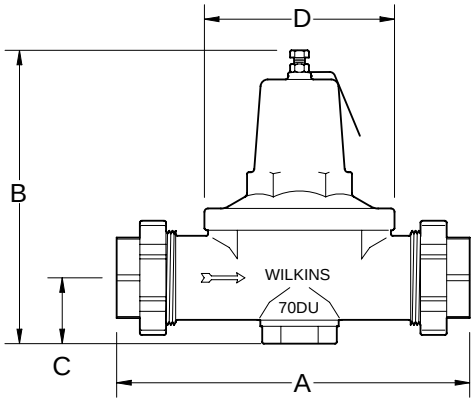
❑ - standard with 20 mesh strainer screen
❑ C - female copper sweat
❑ HR - 75 psi to 125 psi adjustment range, factory set at 85 psi
❑ SC - sealed cage bell housing
❑ P - main cap tapped and plugged for gauge

MATERIALS

Main valve body	Cast Bronze ASTM B 584
Seat	300 Series Stainless Steel
Fasteners	300 Series Stainless Steel
Stem & plunger	Brass ASTM B 16
	Cast Bronze ASTM B 584
Elastomers	Buna Nitrile, FDA (CFR) 21, 177.2600
	EPDM, FDA (CFR) 21, 177.2600
Strainer screen	300 Series Stainless Steel

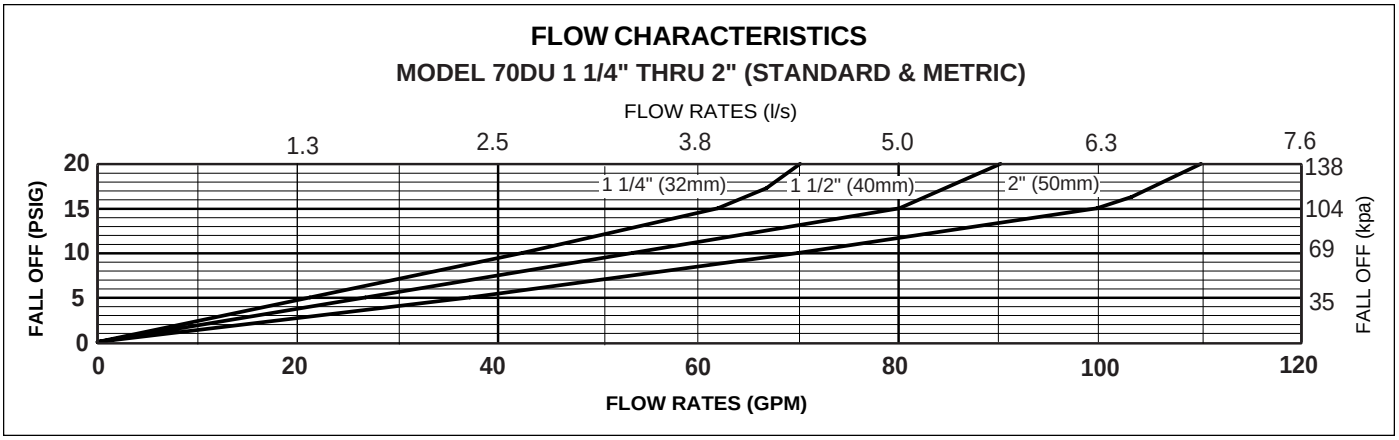
ACCESSORIES

❑ Repair kit
❑ Water thermal expansion tank (Model WXTP)
❑ Special in-line spacer nipple (1 ¼" only)
❑ In-line strainer screen for DUSPC (SCR)
❑ Water hammer arrester (Model 1250)
❑ Tailpiece kit (TPK)



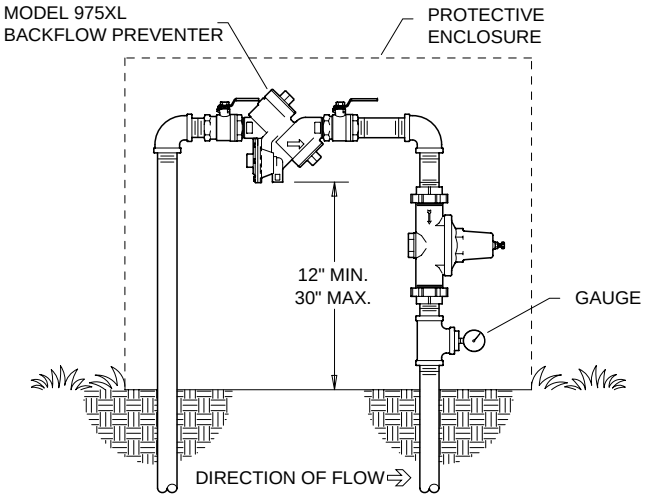
DIMENSIONS & WEIGHTS (do not include pkg.)

SIZE		CONNECTIONS	DIMENSIONS (approximate)								WEIGHT	
			A		B		C		D			
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
1 1/4	32	DOUBLE UNION	8 3/8	213	8	203	1 3/4	45	3 15/16	100	8	3.5
1 1/2	40	DOUBLE UNION	10	254	10	254	2 1/4	57	5 1/4	133	15	7.0
2	50	DOUBLE UNION	12 1/4	311	11	279	2 3/8	60	6 1/2	165	21	9.5

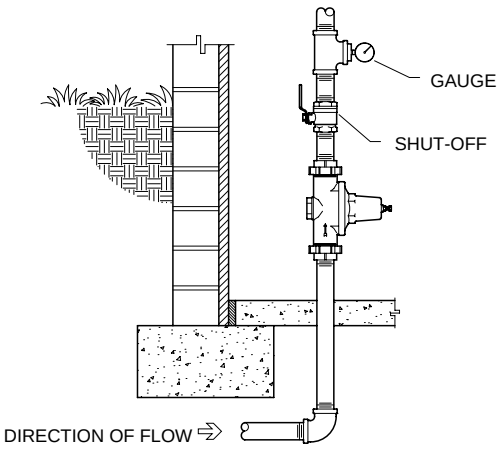


TYPICAL INSTALLATION

Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted in accordance with the latest edition of the Uniform Plumbing Code. The Model 70DU may be installed in any position. If installed in a pit, vault or indoor application, 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 (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.



TYPICAL OUTDOOR INSTALLATION



INDOOR INSTALLATION

SPECIFICATIONS

The Pressure Reducing Valve shall be the direct-acting type. The integral bypass check valve's main body and bell housing shall be cast bronze (ASTM B 584). The pressure reducing valve shall be of the balanced piston design, include an integral strainer screen and shall reduce pressure in both flow and no-flow conditions using an adjusting bolt. The bronze bell housing shall be threaded to the body and shall not require the use of ferrous screws. The Pressure Reducing Valve shall be a WILKINS Model 70DU.

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