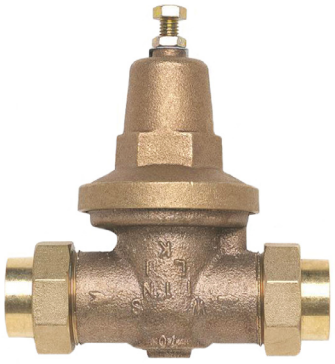
WILKINS
a ZURN company

# Model 70DU

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

# SPECIFICATION SUBMITTAL SHEET



## FEATURES

Sizes: ❑ 1 1/4" ❑ 1 1/2 ❑ 2"

| | |
|---|---|
| Maximum working water pressure | 300 psi |
| Maximum working water temperature | 140°F |
| Reduced pressure range | 25 psi to 75 psi |
| Factory preset | 50 psi |
| Hydrostatic test pressure | 300 psi |
| End connectionsThreaded | ANSI B1.20.1 |

## 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

## ACCESSORIES

- ❑ Repair kit
- ❑ Water thermal expansion tank (Model XT)
- ❑ Special in-line spacer nipple (1 1/4" only)
- ❑ In-line strainer screen for DUSPC (SCR)
- ❑ Water hammer arrester (Model 1250)
- ❑ Tailpiece kit (TPK)

## APPLICATION

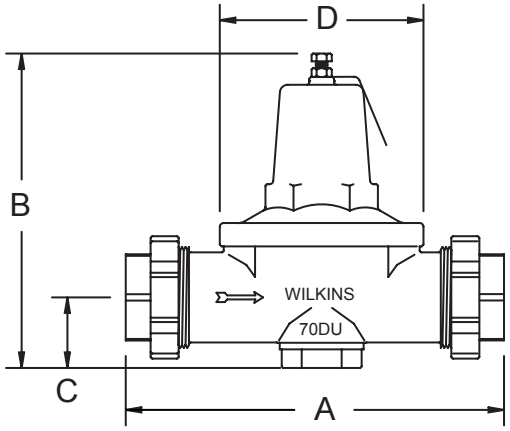
Designed for installation on potable water lines to reduce high inlet pressure to a lower outlet pressure. The double female union connections makes this device most suitable for applications with minimal clearance and installations requiring frequent off-site maintenance. The direct acting integral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

## STANDARDS COMPLIANCE

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

## 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 |




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

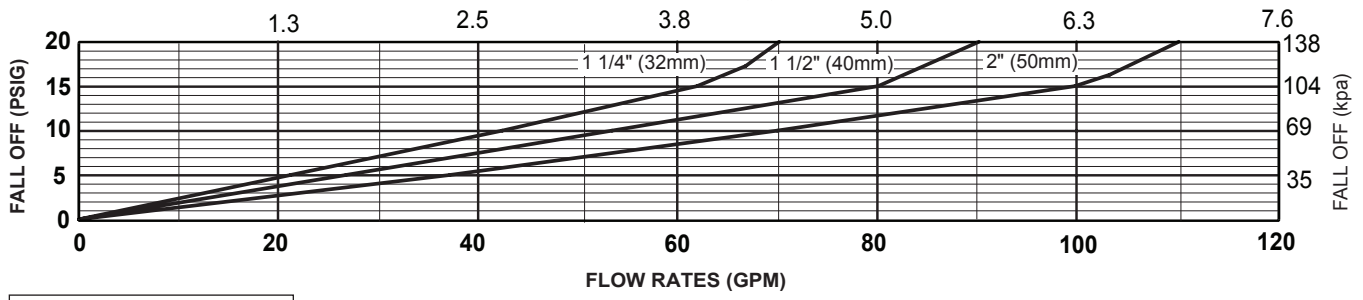
| SIZE | | CONNECTIONS | DIMENSIONS (approximate) | | | | | | | | WEIGHT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | | B | | C | | D | | | |
| in. | mm | | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg. |
| 1 1/4 | 32 | DOUBLE UNION | 8 3/8 | 213 | 8 | 203 | 1 3/4 | 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 |




**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**

## FLOW CHARACTERISTICS

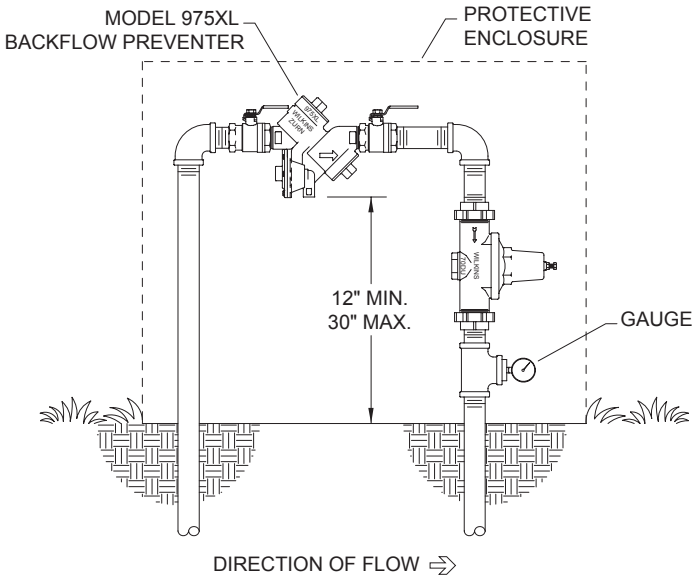
### MODEL 70DU 1 1/4" THRU 2" (STANDARD & METRIC)



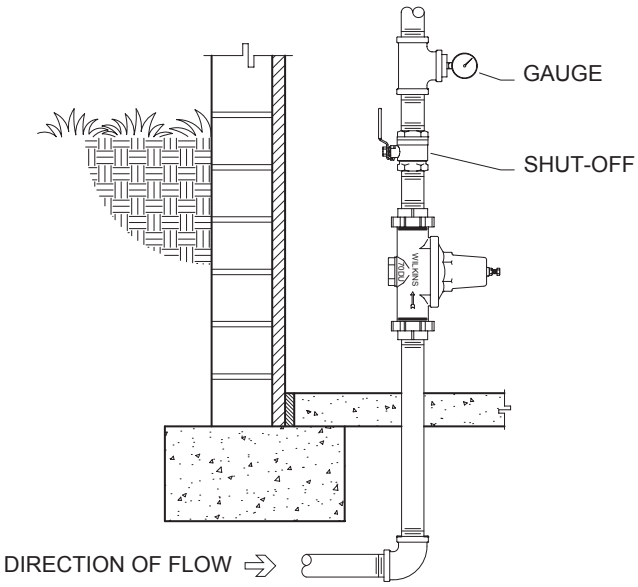

"Flow curves are based on a 50 psi pressure differential"

### 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.




**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.