

## For Residential and Commercial Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# Series 25AUB-Z3

## Water Pressure Reducing Valves\*

Sizes: 1/2" – 2" (15 – 50mm)

Series 25AUB-Z3 Water Pressure Reducing Valves are designed to reduce incoming water pressure to a sensible level to protect plumbing system components and reduce water consumption. This series is suitable for water supply pressures up to 300psi (21 bars) and may be adjusted from 25 – 75psi (172 – 517kPa). The standard setting is 50psi (345kPa). All parts are quickly and easily serviceable without removing the valve from the line. The standard bypass feature permits the flow of water back through the valve into the main when pressures, due to thermal expansion on the outlet side of the valve, exceed the pressure in the main.

### Features

- Standard construction includes Z3 sealed spring cage and corrosion resistant adjusting & cage screws for outdoor/waterworks pit installations
- Union inlet connection
- Integral stainless steel strainer
- Replaceable seat module
- Bronze body construction
- Serviceable in line
- Bypass feature controls thermal expansion pressure\*\*
- High temperature resistant reinforced diaphragm for hot water

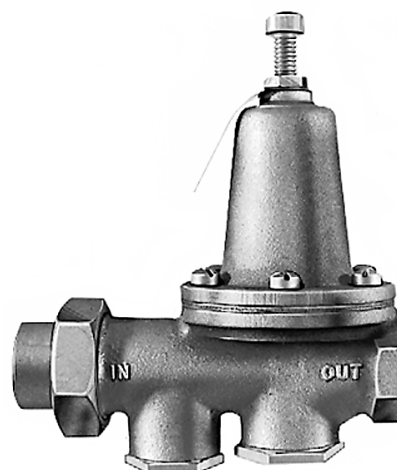
### Models

25AUB-Z3	NPT threaded female union inlet x NPT female outlet
25AUB-S-Z3	Solder union inlet x NPT female outlet
25AUB-DU-Z3	Double Union – NPT threaded union female inlet and outlet
25AUB-S-DU-Z3	Double Union – Solder union inlet and outlet
25AUB-DU-THDxPEX-Z3	Double Union – NPT threaded female inlet and PEX union outlet
25AUB-DU-CPVC-Z3	Double Union – CPVC union inlet and outlet
25AUB-DU-LF-Z3	Double union body less fittings

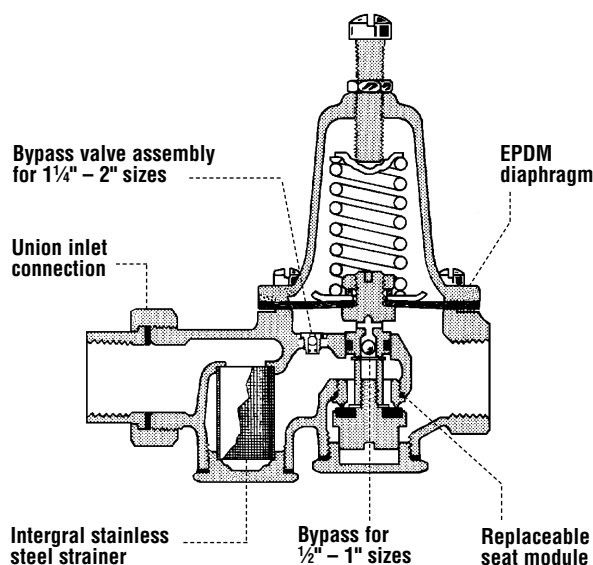
### Specifications

A Water Pressure Reducing Valve with integral strainer shall be installed on the water service pipe near its entrance to the building where supply main pressure exceeds 60psi (413 kPa) to reduce it to 50psi (345 kPa) or lower. Sill cocks and outside wall hydrants may be left on full main pressure at the option of the owner. Provision shall be made to permit the bypass flow of water around the valve back into the main when pressures, due to thermal expansion on the outlet side of the valve, exceed the pressure in the main. Pressure reducing valves with built-in bypass check valves will be acceptable. Approved valves shall comply with ASSE 1003. Valve shall be a Watts Regulator Company Series 25AUB-Z3.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



25AUB-Z3



\*A water saving test program concluded that reducing the supply pressure from 80-50psi (551-346kPa) resulted in a water savings of 30%.

\*\*Bypass will not work if inlet pressure is above 150psi (10.34 bars).

**WATTS®**  
**REGULATOR**

## Materials

Body: Bronze  
 Seat: 1/2"-1" (15-25mm) Replaceable engineered polymer (10% glass filled Noryl®)  
 1 1/4"-2" (32-50mm) Replaceable stainless steel

Integral Strainer: Stainless steel  
 Diaphragm: Reinforced EPDM  
 Valve Disc: EPDM

Note: for LP models where application temperatures exceed 160°F (71°C), but not over 180°F (82°C), a Teflon® protector should be added to sizes 1 1/4"-2" (32-50mm).

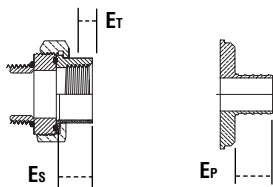
## Pressure – Temperature

Temperature Range: 33°F - 160°F (5°C - 71°C)  
 Maximum Working Pressure: 300psi (21 bars)  
 Adjustable Reduced Pressure Range: 25-75psi (172 - 517kPa)  
 Standard Reduced Pressure Setting: 50psi (345kPa)

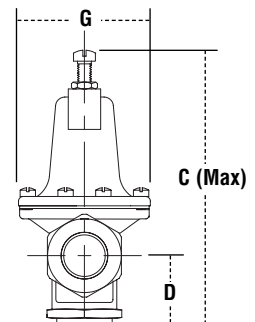
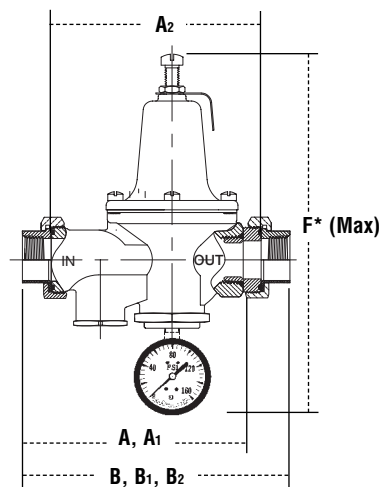
## Options

G Gauge tapping, 1/8"  
 GG Gauge tapping and 160psi (11 bar) gauge  
 HP High pressure range 75-125psi (5.27 – 8.79 bar)  
 LP Low pressure range 10-35psi (69 – 241 kPa)  
 Z7 400psi (28 bar) initial pressure, 1/2" (20mm) models only  
 Noryl® is a registered trademark of General Electric Company.  
 Teflon® is a registered trademark of E.I. DuPont de Nemours & Company.

## Dimensions — Weight



A - 25AUB-Z3  
 A<sub>1</sub> - 25AUB-S-Z3  
 A<sub>2</sub> - 25AUB-DU-LF-Z3  
 B - 25AUB-DU-Z3  
 B<sub>1</sub> - 25AUB-S-DU-Z3  
 B<sub>2</sub> - 25AUB-DU-THDxPEX-Z3  
 E<sub>T</sub> - NPT Engagement for tight joint  
 E<sub>S</sub> - Female sweat socket depth  
 E<sub>P</sub> - PEX end connection



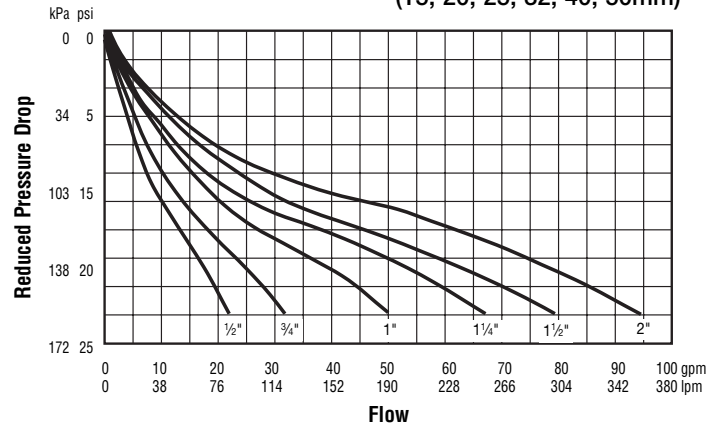
## Standards



Meets requirements of ASSE Standard 1003: (ANSI A112.26.2: CSA Standard B356; Southern Standard Plumbing Code and listed by IAPMO.  
 Military Standard MIL-V-18146B Type I.

## Capacity

Sizes: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"  
 (15, 20, 25, 32, 40, 50mm)



SIZE (DN)				DIMENSIONS									
		A		A <sub>1</sub>		A <sub>2</sub>		B		B <sub>1</sub>		B <sub>2</sub>	
<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>
½	15	5⅜	137	5⅝ <sub>16</sub>	135	5⅜ <sub>16</sub>	132	6⅞ <sub>16</sub>	164	6⅜	162	—	—
¾	20	5⅝ <sub>16</sub>	135	5½	140	5¼	133	6½	165	6⅞	175	6¾	171
1	25	6	152	6¼	159	5⅞	149	7⅞	187	7⅜ <sub>16</sub>	198	7⅞ <sub>16</sub>	195
1¼	32	8¾	222	8 <sup>15</sup> / <sub>16</sub>	227	8¼	210	10¾	273	11	279	—	—
1½	40	8¾	222	9	229	8¼	210	10¾	273	11⅜ <sub>16</sub>	284	—	—
2	50	9¾	235	10	254	8¾	222	11⅝ <sub>16</sub>	287	12⅞ <sub>16</sub>	322	—	—

DIMENSIONS												WEIGHT			
C		D		F *		G		E <sub>T</sub>		E <sub>S</sub>		E <sub>P</sub>			
<i>in.</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>in</i>	<i>mm</i>	<i>lbs.</i>	<i>kg.</i>
7	178	1½	38	9⅞	240	3⅛	79	½	13	½	13	—	—	3.5	1.6
7	178	1½	38	9⅞	240	3⅛	79	½	13	¾	19	⅝	16	3.5	1.6
8	203	1¾	44	10⅞	266	3⅝	92	⅝	16	1⅞	23	1⅜	21	6.5	3.0
9	229	2⅛	54	11⅞	291	3⅝	92	⅝	16	1	25	—	—	10	4.5
9½	241	2⅜	60	11⅞	304	4⅞	103	⅝	16	1⅞	28	—	—	10	4.5
11¼	286	3¼	83	13⅞	348	4¾	121	⅝	16	1⅞	34	—	—	15	6.8

\* Dimension includes optional gauge



USA: 815 Chestnut St., No. Andover, MA 01845-6098; [www.wattsreg.com](http://www.wattsreg.com)  
 Canada: 5435 North Service Rd., Burlington, ONT L7L 5H7; [www.wattscanada.ca](http://www.wattscanada.ca)

