

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

- Lead free† construction
- 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

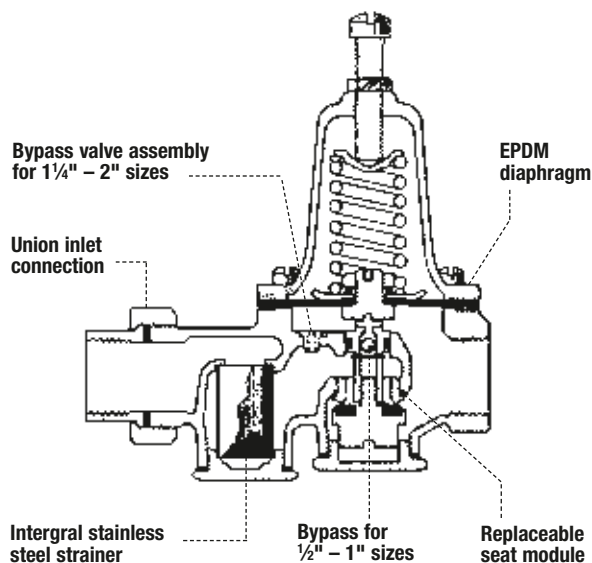
LF 25AUB-Z3	NPT threaded female union inlet x NPT female outlet
LF 25AUB-S-Z3	Solder union inlet x NPT female outlet
LF 25AUB-DU-Z3	Double Union – NPT threaded union female inlet and outlet
LF 25AUB-S-DU-Z3	Double Union – Solder union inlet and outlet
LF 25AUB-DU-THDxPEX-Z3	Double Union – NPT threaded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



LF 25AUB-Z3



† The combined metal components of this product contacted by potable water contain less than one half of one percent (0.5%) of lead by weight.

* 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

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.

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).

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Pressure – Temperature

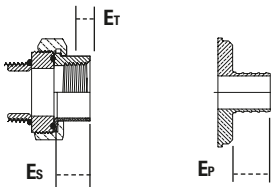
Temperature Range: 33°F - 160°F (5°C - 71°C)
 Maximum Working Pressure: 300psi (21 bars)
 Adjustable Reduced Pressure Range: 25-75psi (172 - 517kPa)
 Standard Reduced Pressure Setting: 50psi (345kPa)

Options

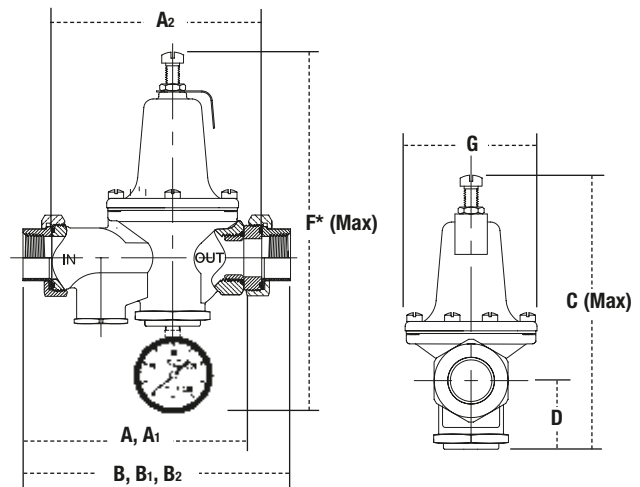
G Gauge tapping, 1/8"
 GG Gauge tapping and 160psi (11 bar) gauge
 HP High pressure range 75-125psi (5.27 – 8.79 bar)
 LP Low pressure range 10-35psi (69 – 241 kPa)
 Z7 400psi (28 bar) initial pressure, 1/2" (20mm) models only

Noryl® is a registered trademark of General Electric Company.
 Teflon® is a registered trademark of E.I. Dupont de Nemours & Company.

Dimensions – Weights



A - LF 25AUB-Z3
 A₁ - LF 25AUB-S-Z3
 A₂ - LF 25AUB-DU-LF-Z3
 B - LF 25AUB-DU-Z3
 B₁ - LF 25AUB-S-DU-Z3
 B₂ - LF 25AUB-DU-THDxPEX-Z3
 E_T - NPT Engagement for tight joint
 E_S - Female sweat socket depth
 E_P - PEX end connection

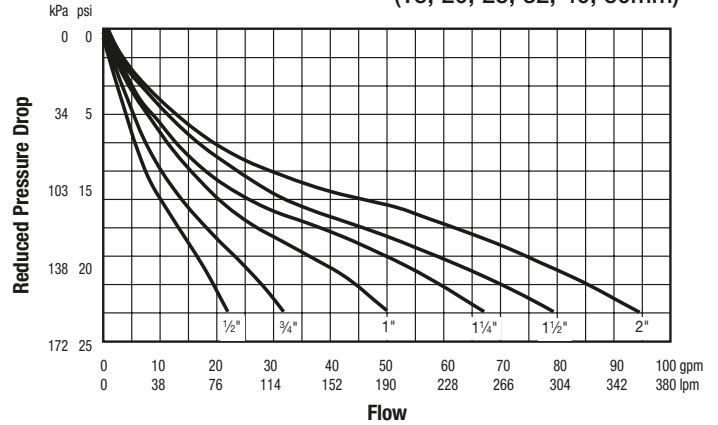


Standards

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 ₁		A ₂		B		B ₁		B ₂	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1/2	15	5 3/8	137	5 5/16	135	5 3/16	132	6 7/16	164	6 3/8	162	-	-
3/4	20	5 5/16	135	5 1/2	140	5 1/4	133	6 1/2	165	6 7/8	175	6 3/4	171
1	25	6	152	6 1/4	159	5 7/8	149	7 3/8	187	7 13/16	198	7 11/16	195
1 1/4	32	8 3/4	222	8 15/16	227	8 1/4	210	10 3/4	273	11	279	-	-
1 1/2	40	8 3/4	222	9	229	8 1/4	210	10 3/4	273	11 3/16	284	-	-
2	50	9 3/4	235	10	254	8 3/4	222	11 5/16	287	12 11/16	322	-	-

DIMENSIONS										WEIGHT					
C		D		F*		G		E _T		E _S		E _P		lbs.	kg.
in.	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
7	178	1 1/2	38	9 7/16	240	3 1/8	79	1/2	13	1/2	13	-	-	3.5	1.6
7	178	1 1/2	38	9 7/16	240	3 1/8	79	1/2	13	3/4	19	5/8	16	3.5	1.6
8	203	1 3/4	44	10 7/16	266	3 5/8	92	5/8	16	15/16	23	13/16	21	6.5	3.0
9	229	2 1/8	54	11 7/16	291	3 5/8	92	5/8	16	1	25	-	-	10	4.5
9 1/2	241	2 3/8	60	11 15/16	304	4 1/16	103	5/8	16	1 1/16	28	-	-	10	4.5
11 1/4	286	3 1/4	83	13 11/16	348	4 3/4	121	5/8	16	1 5/16	34	-	-	15	6.8

* Dimension includes optional gauge



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 Canada: 5435 North Service Rd., Burlington, ONT L7L 5H7; www.wattscanada.ca

