

For Residential and Commercial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

LEAD FREE*

Series LF25AUB-Z3 Water Pressure Reducing Valves**

Sizes: ½" – 2" (15 – 50mm)

Series LF25AUB-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 (20.7 bar) and may be adjusted from 25 – 75psi (172 – 517 kPa). The LF25AUB-Z3 features Lead Free* construction to comply with Lead Free* installation requirements. The standard setting is 50psi (345 kPa). 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 supply.

Features

- Standard construction includes Z3 sealed spring cage and stainless steel corrosion resistant adjusting & cage screws for accessible outdoor or pit installations
- Union inlet connection
- Integral stainless steel strainer
- Replaceable seat module
- Lead Free* cast copper silicon alloy construction
- Serviceable in line
- Bypass feature controls thermal expansion pressure***
- High temperature resistant reinforced diaphragm for hot water

Models

LF25AUB-Z3	NPT threaded female union inlet x NPT female outlet
LF25AUB-S-Z3	Solder union inlet x NPT female outlet
LF25AUB-DU-Z3	Double Union – NPT threaded union female inlet and outlet
LF25AUB-S-DU-Z3	Double Union – Solder union inlet and outlet
LF25AUB-DU-THDxPEX-Z3	Double Union – NPT threaded female inlet and PEX union outlet
LF25AUB-DU-LF-Z3	Double union body less fittings (¾", 1", 1¼")
LF25AUB-QC-Z3	Single Union – Quick-Connect union inlet (½", ¾", 1")
LF25AUB-DU-QC-Z3	Double Union – Quick-Connect inlet and outlet (½", ¾", 1")

Specifications

A Water Pressure Reducing Valve with integral strainer shall be installed in 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. The water pressure reducing valve shall be constructed using Lead Free* materials. Lead Free* regulators shall comply with state codes and standards, where applicable, requiring reduced lead content. The valve shall feature a Lead Free* cast copper silicon alloy suitable for water supply pressures up to 300psi (20.7 bar). Provision shall be made to permit the bypass 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 supply. Water Pressure Reducing Valve with built-in bypass check valves will be acceptable. Approved valve shall be listed to ASSE 1003 and IAPMO and certified to CSA B356. Valve shall be a Watts Series LF25AUB-Z3.

LF25AUB-Z3



Bypass valve assembly for 1¼" – 2" (32 – 50mm) sizes

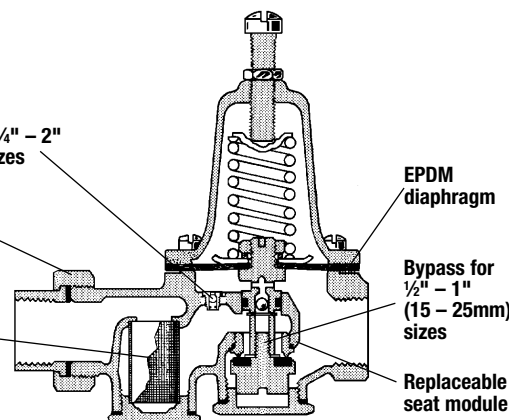
Union inlet connection

Integral stainless steel strainer

EPDM diaphragm

Bypass for ½" – 1" (15 – 25mm) sizes

Replaceable seat module



*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

**A water saving test program concluded that reducing the supply pressure from 80-50psi (551-345 kPa) resulted in a water savings of 30%.

***The bypass feature will not prevent the pressure relief valve from opening on the hot water supply system with pressure above 150psi (10.3 bar).

Materials

Body:	Lead Free* copper silicon alloy
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 with PTFE wetted surface
Valve Disc:	EPDM

Pressure – Temperature

Temperature Range: 33°F – 160°F (0.5°C – 71°C)
 Maximum Working Pressure: 300psi (20.7 bar)
 Adjustable Reduced Pressure Range: 25–75psi (172 – 517 kPa)
 Standard Reduced Pressure Setting: 50psi (345 kPa)

Options

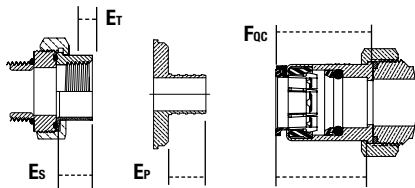
Add Suffix

G	Gauge tapping, 1/8" (3mm)
GG	Gauge tapping and 160psi (11 bar) gauge
HP	High pressure range 75–125psi (5.2 – 8.6 bar) †
LP	Low pressure range 10–35psi (69 – 241 kPa) †
Z7	400psi (27.6 bar) initial pressure, 1/2" (20mm) models only

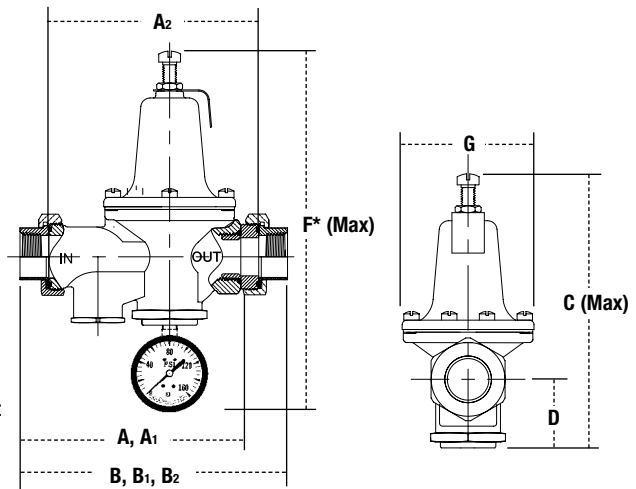
† Not available on G or GG models

Noryl® is a registered trademark of SABIC Innovative Plastics™

Dimensions — Weights



- A - LF25AUB-Z3
- A₁ - LF25AUB-S-Z3
- A₂ - LF25AUB-DU-LF-Z3
- B - LF25AUB-DU-Z3
- B₁ - LF25AUB-S-DU-Z3
- B₂ - LF25AUB-DU-THDxPEX-Z3
- E_T - NPT Engagement for tight joint
- E_S - Female sweat socket depth
- E_P - PEX end connection
- F_{QC} - Quick-Connect union



SIZE (DN)				DIMENSIONS											
		A		A ₁		A ₂		B		B ₁		B ₂		C	
<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>in.</i>	<i>mm</i>
½	15	5⅝	137	5⅞ ₁₆	135	5⅞ ₁₆	132	6⅞ ₁₆	164	6⅝	162	—	—	7	178
¾	20	5⅞ ₁₆	135	5½	140	5¼	133	6½	165	6⅞ ₈	175	6¾	171	7	178
1	25	6	152	6¼	159	5⅞	149	7⅞ ₈	187	7⅞ ₁₆	198	7⅞ ₁₆	195	8	203
1¼	32	8¾	222	8⅞ ₁₆	227	8¼	210	10¾	273	11	279	—	—	9	229
1½	40	8¾	222	9	229	8¼	210	10¾	273	11⅞ ₁₆	284	—	—	9½	241
2	50	9¼	235	10	254	8¾	222	11⅞ ₁₆	287	12⅞ ₁₆	322	—	—	11¼	286

SIZE (DN)		DIMENSIONS												WEIGHT			
		D		F ^Δ		G		E _T		E _S		E _P		F _{OC}			
<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>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>
½	15	1½	38	9 ⁷ / ₁₆	240	3 ⁵ / ₈	79	½	13	½	13	—	—	1½	38	3.5	1.6
¾	20	1½	38	9 ⁷ / ₁₆	240	3 ⁵ / ₈	79	½	13	¾	19	⅝	16	1 ¹¹ / ₁₆	42	3.5	1.6
1	25	1¾	44	10 ⁷ / ₁₆	266	3 ⁵ / ₈	92	⅝	16	1 ⁵ / ₁₆	23	1 ³ / ₁₆	21	1¾	45	6.5	3.0
1¼	32	2⅛	54	11 ⁷ / ₁₆	291	3 ⁵ / ₈	92	⅝	16	1	25	—	—	—	—	10	4.5
1½	40	2⅜	60	11 ¹⁵ / ₁₆	304	4 ¹ / ₁₆	103	⅝	16	1 ¹ / ₁₆	28	—	—	—	—	10	4.5
2	50	3¼	83	13 ¹¹ / ₁₆	348	4¾	121	⅝	16	1 ⁵ / ₁₆	34	—	—	—	—	15	6.8

Δ Dimension includes optional gauge



A Watts Water Technologies Company



ISO 9001-2008
CERTIFIED

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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)

