For Residential and Commercial Applications

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

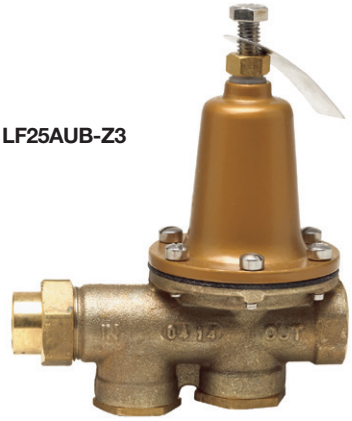
LEAD FREE*

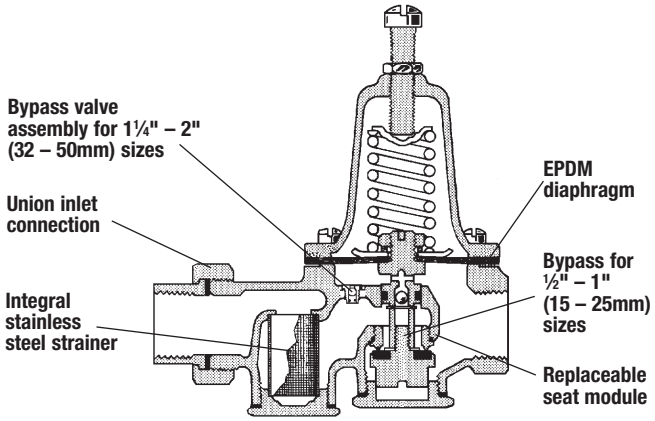
Series LF25AUB-Z3

Water Pressure Reducing Valves**

Sizes: ½" – 2"

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
- 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

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.

NOTICE

Product is for interior or exterior applications. Product should not be buried directly in the ground. For exterior applications where the valve will be situated in a vault or pit or be in contact with the ground, the valve should be installed in a meter box/vault, accessible for repair and adjustment, per local code.

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Materials

Body:	Lead Free* copper silicon alloy
Seat:	½"–1" (15–25mm) Replaceable engineered polymer (10% glass filled Noryl®) 1¼"–2" (32–50mm) Replaceable stainless steel
Integral Strainer:	Stainless steel
Diaphragm:	Reinforced EPDM with PTFE wetted surface
Valve Disc:	EPDM

*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).

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.

WATTS®

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

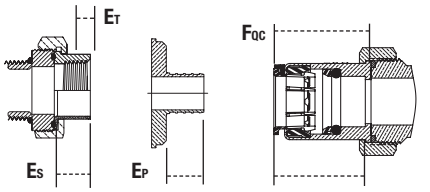
-" "	Threaded female union inlet x NPT female outlet
-S	Solder union inlet x NPT female outlet
-QC	Quick-Connect union inlet (½", ¾", 1")
-LF	Double union body less fittings (¾", 1", 1¼")
-w/press****	Press inlet x press outlet (non union)
-DU	Double Union – NPT threaded union female inlet and outlet
-S-DU	Double Union –Solder union inlet and outlet
-DU-PEX	Double Union –PEX union inlet and outlet
-DU-QC	Double Union – Quick-Connect inlet and outlet (½", ¾", 1")
-G	Gauge tapping, ¼" (½", ¾"), ⅛"(1¼"-2")
-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, ½" models only
-Z6	Water meter threaded connections and 7½" (190mm) lay length for new or existing meter box installations, For ⅝", ⅝" x ¾" or ¾" meter setters or resetters

† Not available on G or GG models

Noryl® is a registered trademark of SABIC Innovative Plastics™

****Viega ProPress® connections are optional factory installed fittings on each end of the approved/certified assembly.

Dimensions — Weights

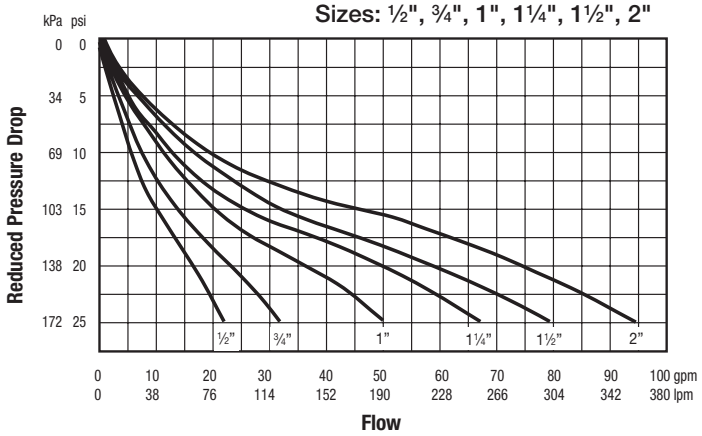


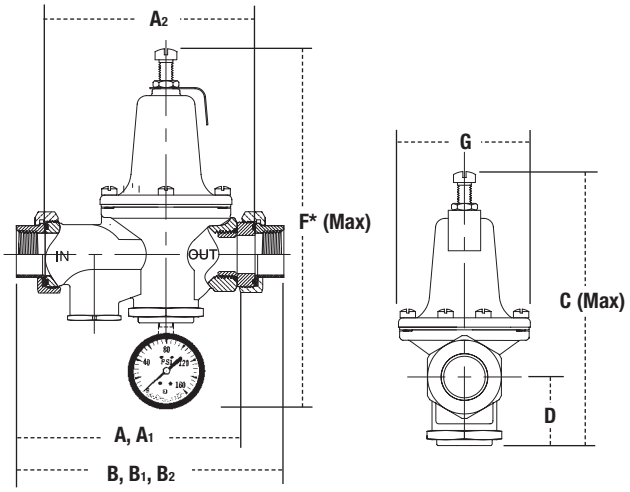
A - LF25AUB-Z3
A1 - LF25AUB-S-Z3
A2 - LF25AUB-DU-LF-Z3
B - LF25AUB-DU-Z3
B1 - LF25AUB-S-DU-Z3
B2 - LF25AUB-DU-THDxPEX-Z3
ET - NPT Engagement for tight joint
ES - Female sweat socket depth
EP - PEX end connection
FQC - Quick-Connect union

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





SIZE	DIMENSIONS														WEIGHT	
	A		A1		A2		B		B1		B2		C			
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
½	5⅜	137	5⁵⁄₁₆	135	5³⁄₁₆	132	6⁷⁄₁₆	164	6⅜	162	–	–	7	178		
¾	5⁵⁄₁₆	135	5½	140	5¼	133	6½	165	6⅞	175	6¾	171	7	178		
1	6	152	6¼	159	5⅞	149	7⅜	187	7¹³⁄₁₆	198	7¹¹⁄₁₆	195	8	203		
1¼	8¾	222	8¹⁵⁄₁₆	227	8¼	210	10¾	273	11	279	–	–	9	229		
1½	8¾	222	9	229	8¼	210	10¾	273	11³⁄₁₆	284	–	–	9½	241		
2	9¼	235	10	254	8¾	222	11⁵⁄₁₆	287	12¹¹⁄₁₆	322	–	–	11¼	286		

SIZE	DIMENSIONS														WEIGHT	
	D		F Δ		G		ET		ES		EP		FQC			
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
½	1½	38	9⁷⁄₁₆	240	3⅛	79	½	13	½	13	–	–	1½	38	3.5	1.6
¾	1½	38	9⁷⁄₁₆	240	3⅛	79	½	13	¾	19	⅝	16	1¹¹⁄₁₆	42	3.5	1.6
1	1¾	44	10⁷⁄₁₆	266	3⅝	92	⅝	16	¹⁵⁄₁₆	23	¹³⁄₁₆	21	1¾	45	6.5	3.0
1¼	2⅛	54	11⁷⁄₁₆	291	3⅝	92	⅝	16	1	25	–	–	–	–	10	4.5
1½	2⅜	60	11¹⁵⁄₁₆	304	4¹⁄₁₆	103	⅝	16	1¹⁄₁₆	28	–	–	–	–	10	4.5
2	3¼	83	13¹¹⁄₁₆	348	4¾	121	⅝	16	1⁵⁄₁₆	34	–	–	–	–	15	6.8

Δ Dimension includes optional gauge

Consult factory for dimensions with press connections.

WATTS®

USA: T: (978) 689-6066 • F: (978) 975-8350 • Watts.com
Canada: T: (888) 208-8927 • F: (888) 479-2887 • Watts.ca
Latin America: T: (52) 81-1001-8600 • Watts.com

© 2020 Watts