For Residential and Commercial Applications

Job Name _____ Contractor _____

Job Location _____ Approval _____

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

Approval _____ Representative _____

Series N55B-M1

Water Pressure Reducing Valves*

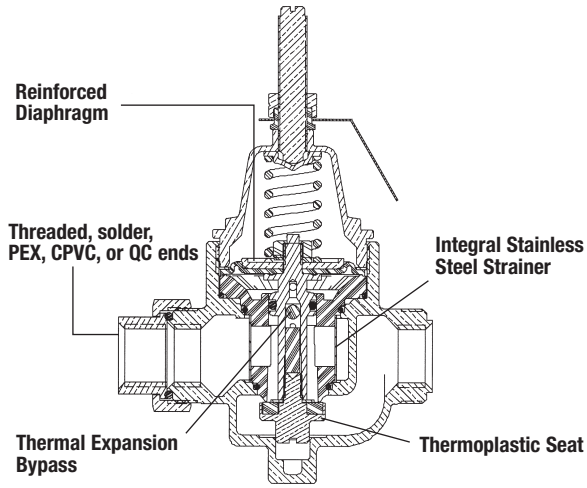
Sizes: ½" – 1" (15 – 25mm)

Series N55B-M1 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 400psi (27.6 bar) and may be adjusted from 25 to 75psi (172 – 517 kPa). 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

- Double union inlet & outlet connections (option DU)
- Integral stainless steel strainer
- Thermoplastic seat
- Bronze body construction
- Serviceable in line
- Bypass feature controls thermal expansion pressure**
- Sealed spring cage on all models for accessible outdoor or pit installations



Models

N55B-M1	NPT threaded female inlet x NPT female outlet
N55BU-M1	NPT threaded union inlet x NPT female outlet
N55BU-S-M1	Solder union inlet x NPT female outlet
N55BU-QC-M1	Single Union – QC union inlet
N55BDU-M1	Double Union – NPT threaded union female inlet and outlet
N55BDU-S-M1	Double Union – Solder union inlet and outlet
N55BDU-PEX-M1	Double Union – PEX union inlet and outlet
N55BDU-CPVC-M1	Double Union – CPVC union inlet and outlet
N55BDU-QC-M1	Double Union – QC union inlet and outlet

Specifications

Standard 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 valve shall feature a bronze body suitable for water supply pressures up to 400psi (27.6 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 Regulator Company Series N55B-M1.

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

**** NOTE: 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).**

Lead Free 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 valve shall feature a bronze body where suitable for water supply pressures up to 400psi (27.6 bar). The combined metal components of the valve contacted by potable water shall contain less than one half of one percent (0.5%) lead by weight. 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 NSF 61-8 and CSA B356. Valve shall be a Watts Regulator Company Series LF N55B-M1.

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®

Materials

Body:	Bronze
Seat:	Thermoplastic
Cage:	Bronze
Integral Strainer:	Stainless steel
Diaphragm:	Reinforced EPDM
Valve Disc:	Elastomer

Pressure — Temperature

Temperature Range: 33°F – 180°F (0.5°C – 82°C)
Maximum Working Pressure: 400psi (27.6 bar)
Adjustable Reduced Pressure Range: 25 – 75psi (172 – 517 kPa)
Standard Reduced Pressure Setting: 50psi (345 kPa)

Standards

Meets requirements of ASSE Standard 1003; (ANSI A112.26.2) and CSA Standard B356. Certified by NSF to ANSI/NSF Standard 61-8 (LF N55B-M1 Models only). Listed by IAPMO and City of Los Angeles.

Options

Add Suffix

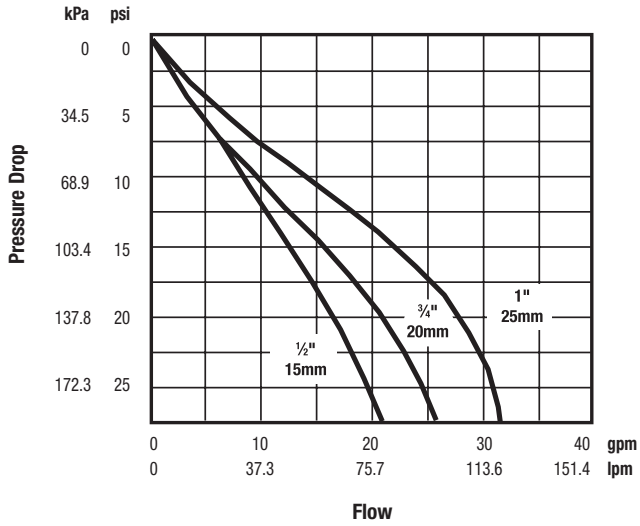
G	Gauge tapping
GG	Gauge tapping and 160psi (11 bar) gauge
LP	Low Pressure Range 10-35psi (69-241 kPa)

Add Preffix

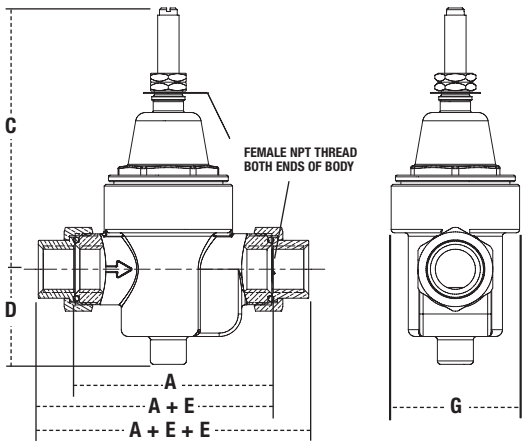
LF	Lead Free† construction

†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.

Capacity



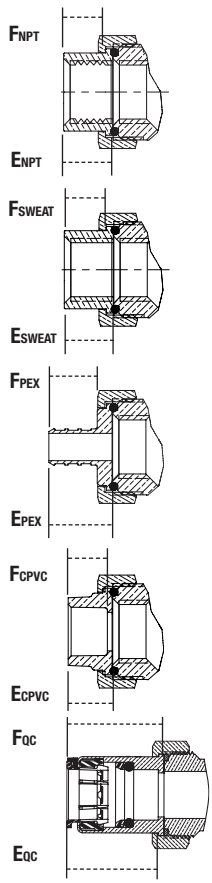
Dimensions – Weights



ABOVE VALVE SHOWN WITH SINGLE NPT UNION CONNECTION ON INLET

VALVES MAY BE ORDERED WITH 0,1,OR 2 UNION CONNECTIONS USING ANY COMBINATION OF NPT, SOLDER, PEX OR CPVC CONNECTIONS REQUIRED

"F" DIMENTIONS ARE APPROXIMATE ENGAGEMENT LENGTHS.



SIZE (DN)		DIMENSIONS																						WEIGHT	
		A		C		D		ENPT		ESWEAT		EPEX		ECPVC		EQC		FNPT		FSWEAT		FPEX		FCPVC		FQC		G			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
½	15	3 7/16	88	4 9/16	116	1 11/16	43	5/8	16	5/8	15	13/16	21	9/16	15	1 7/16	36	½	13	½	13	5/8	16	½	13	1½	38	2¼	57	2	.91
¾	20	3 7/16	88	4 9/16	116	1 11/16	43	5/8	16	7/8	21	15/16	24	13/16	21	1 9/16	40	9/16	14	¾	19	5/8	16	¾	18	1 11/16	42	2¼	57	2	.91
1	25	4 1/8	105	4 9/16	116	1 11/16	43	¾	20	1	26	1 1/8	29	1 1/16	26	1 11/16	43	11/16	17	15/16	23	13/16	21	15/16	23	1¾	45	2¼	57	3	1.36

WATTS®

Water Safety & Flow Control Products

ISO 9001-2000 CERTIFIED

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