

## For Residential and Commercial Applications

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# Series N45B-EZ-M1 Water Pressure Reducing Valves\*

Sizes: 1/2" – 1" (15 – 25mm)

Series N45B-EZ-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 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
- Factory calibrated outlet pressure adjustment
- Easily adjustable pressure setting
- Double union inlet & outlet connections (option DU)
- Integral stainless steel strainer
- Thermoplastic cage & seat
- Bronze body construction
- Serviceable in line
- Bypass feature controls thermal expansion pressure\*\*

## Models

LF N45B-EZ-M1	NPT threaded female inlet x NPT female outlet
LF N45BU-EZ-M1	NPT threaded union inlet x NPT female outlet
LF N45BU-EZ-S-M1	Solder union inlet x NPT female outlet
LF N45BDU-EZ-M1	Double Union – NPT threaded union female inlet and outlet
LF N45BDU-EZ-S-M1	Double Union – Solder union inlet and outlet
LF N45BDU-EZ-PEX-M1	Double Union – PEX union inlet and outlet
LF N45BDU-EZ-CPVC-M1	Double Union – CPVC union inlet and outlet

## Specifications

A Water Pressure Reducing Valve and 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 and integral strainer will be acceptable. Approved valves shall comply with ASSE 1003. Valve shall be a Watts Regulator Company Series N45B-EZ-M1.

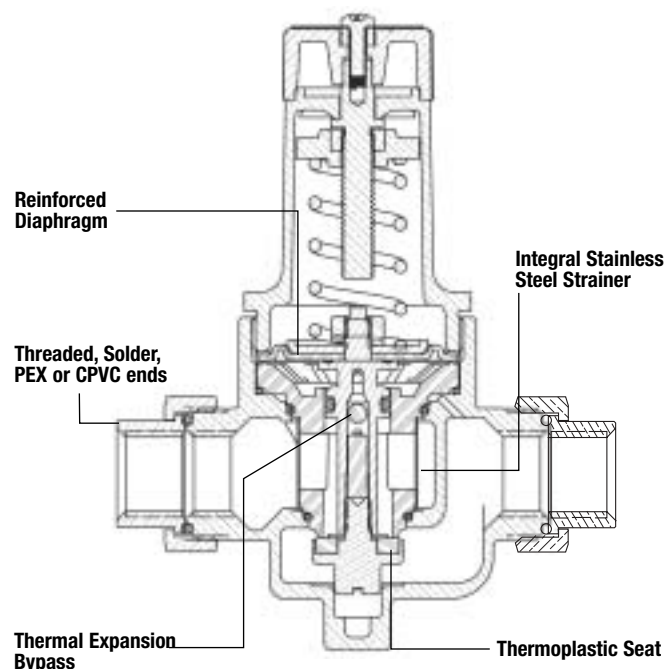
† The combined metal components of this product contacted by potable water contain less than one half of one percent (0.5%) of lead by weight.

\* 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).



LF N45BDU-EZ-M1



**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:	Thermoplastic
Cage:	Thermoplastic
Integral Strainer:	Stainless steel
Diaphragm:	Reinforced EPDM
Valve Disc:	Elastomer

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.

## Pressure – Temperature

Temperature Range: 33°F – 180°F (5°C – 82°C)

Maximum Working Pressure: 400psi (27.6 bars)

Adjustable Reduced Pressure Range: 25-75psi (172 - 517kPa)

Standard Reduced Pressure Setting: 50psi (345kPa)

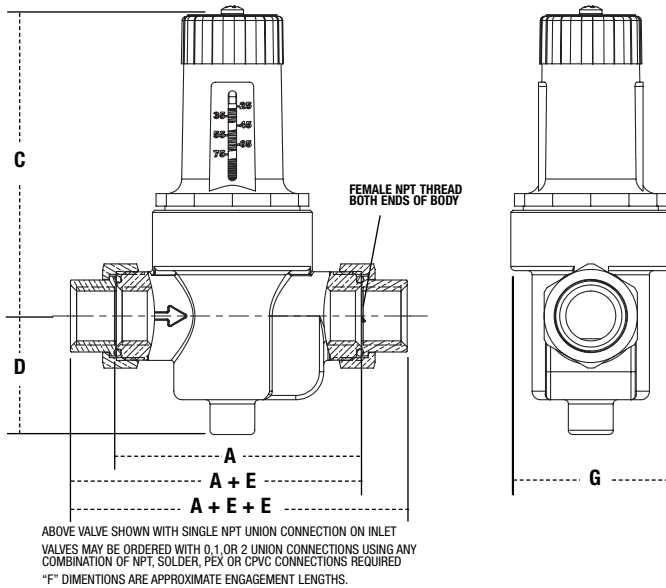
Standards   

Meets requirements of ASSE Standard 1003; (ANSI A112.26.2); CSA Standard B356; and listed by IAPMO.

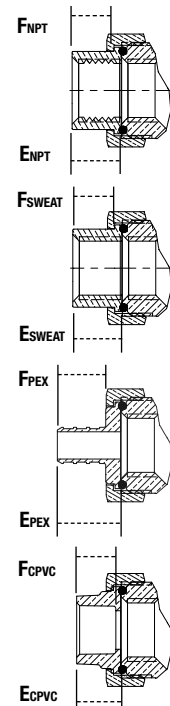
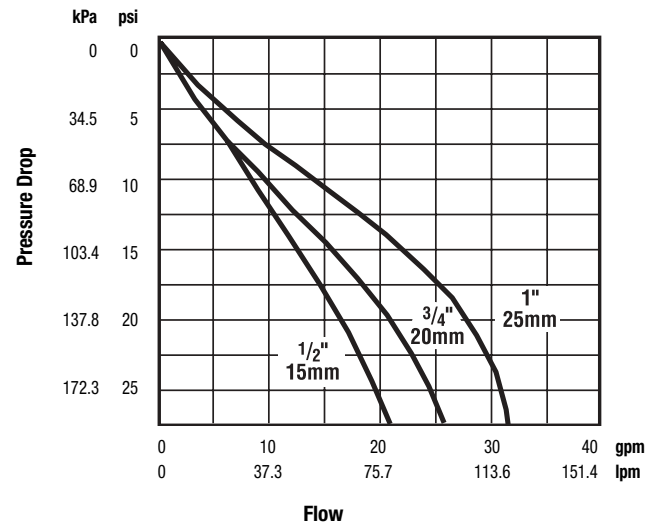
## Options

G	Gauge tapping
GG	Gauge tapping and 160psi (11 bar) gauge

## Dimensions - Weights



## Capacity



SIZE (DN)		DIMENSIONS												WEIGHT													
in.	mm	A		C		D		ENPT		ESWEAT		EPEX		ECPVC		FNPT		FSWEAT		FPEX		FCPVC		G		lbs	kg
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
1/2	15	37/16	88	4 3/8	111	1 11/16	43	5/8	16	5/8	15	13/16	21	9/16	15	1/2	13	1/2	13	5/8	16	1/2	13	2 1/4	57	1.75	.79
3/4	20	37/16	88	4 3/8	111	1 11/16	43	5/8	16	7/8	21	15/16	24	13/16	21	9/16	14	3/4	19	5/8	16	3/4	18	2 1/4	57	1.75	.79
1	25	4 1/8	105	4 3/8	111	1 11/16	43	3/4	20	1	26	1 1/8	29	1 1/16	26	11/16	17	15/16	23	13/16	21	15/16	23	2 1/4	57	2	.91



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