

## For Residential and Commercial Applications

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# Series N45B-EZ

## Water Pressure Reducing Valves\*

Sizes: 1/2" – 2" (15 – 50mm)

Series N45B-EZ 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 (27.5 bar) and may be adjusted from 25 – 75psi (1.7 – 5.2 bar). The standard setting is 50psi (3.5 bar). 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

- Factory calibrated outlet pressure adjustment
- Easily adjustable pressure setting
- Double union inlet & outlet connections
- Integral stainless steel strainer
- Bronze body construction
- Serviceable in line
- Bypass feature controls thermal expansion pressure\*\*

### Models

N45B-EZ	NPT threaded female inlet x NPT female outlet
N45BDU-EZ	Double Union - NPT union female inlet and outlet
N45BDU-EZ-S	Double Union - Solder union inlet and outlet
N45BDU-EZ-G	BSPT inlet x BSPT outlet

### Specifications

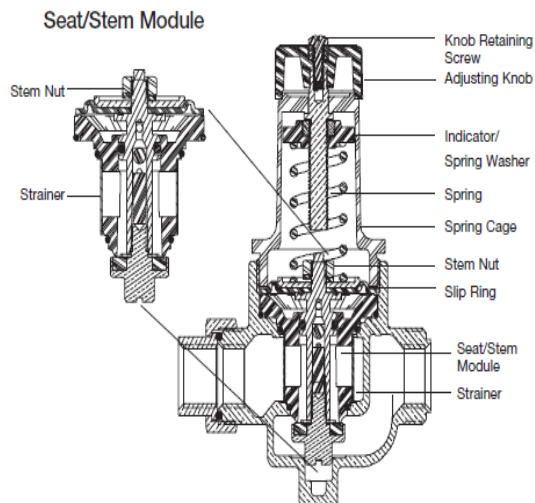
A Water Pressure Reducing Valve and strainer shall be installed on the water service pipe near its entrance to the building where supply main pressure exceeds 60psi (4.2 bar) to reduce it to 50psi (3.5 bar) or lower. Provision shall be made to permit the bypass flow of water around the valve back into the main when pressures, due to thermal expansion on the outlet side of the valve, exceed the pressure in the main. 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.

\*A water saving test program concluded that reducing the supply pressure from 80 – 50psi (5.5 – 3.5 bar) 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).



Series N45BDU-EZ-G



N45B-EZ

## Materials

Body: Bronze(C84400)  
 handle: Noryl Gfn3 PPO  
 Spring: ASTM A228  
 Stem: C37100  
 handle wheel: Noryl Gfn3 PPO  
 Strainer: SS304

## Pressure — Temperature

Temperature Range: 33°F – 180°F (0.5°C – 90°C)

Maximum Working Pressure:(**1/2"-1"**) 400psi (27.5 bar)

Maximum Working Pressure:(**1 1/4"-2"**) 300psi (20.7 bar)

Adjustable Reduced Pressure Range: 25 – 75psi (1.7 – 5.2 bar)

Standard Reduced Pressure Setting: 50psi (3.5 bar)

## Standards



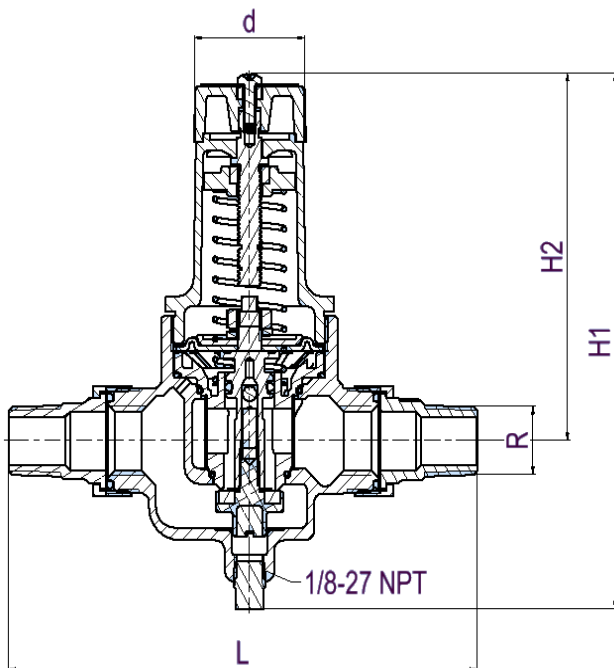
Meets requirements of ASSE Standard 1003;  
 (ANSI A112.26.2); CSA Standard B356;  
 and listed by IAPMO.

## Options

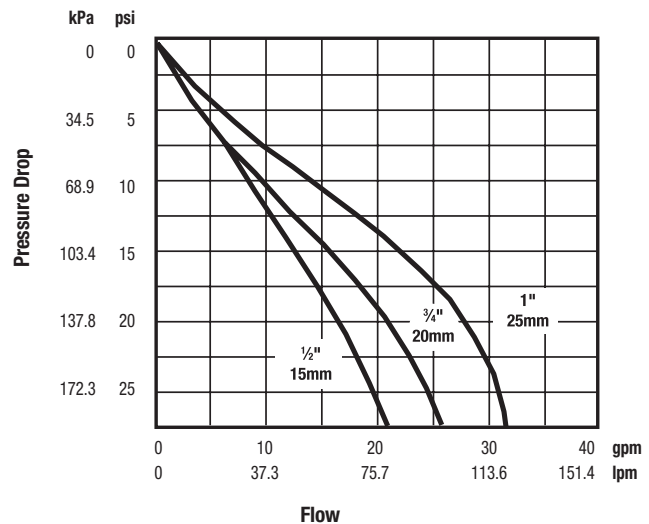
G - Gauge tapping

GG - Gauge tapping and 160psi (11.0 bar) gauge

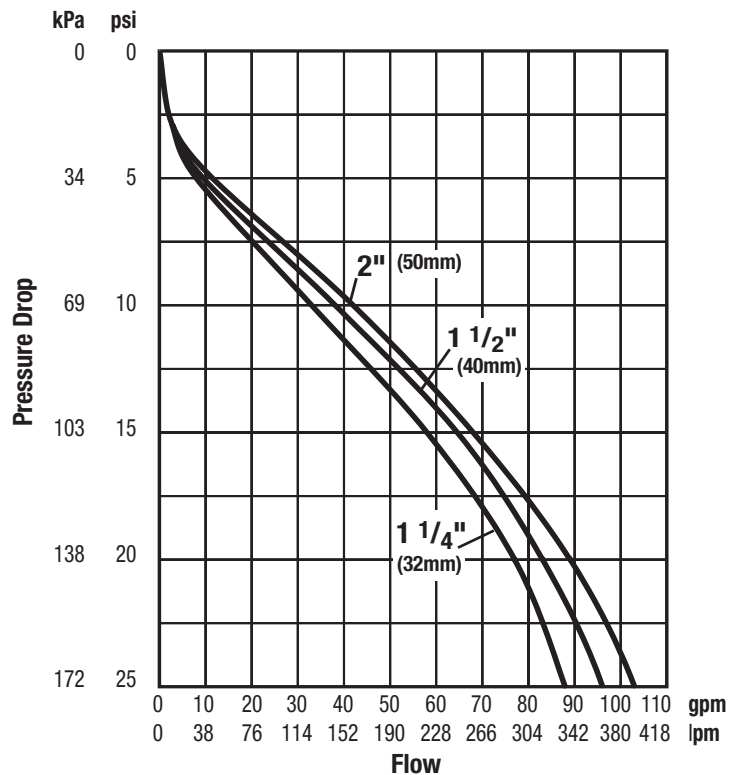
## Dimensions — Weights



## Capacity



## Capacity



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Canada: Tel. (905) 332-4090 • Fax: (905) 332-7068 • [www.wattscanada.ca](http://www.wattscanada.ca)

SIDE(DN)		DIMENSIONS								WEIGHT		
		L		H1		H2		d		R		
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	male thread	lb	kg
1/2"	15	6.00	152.5	6.14	156	4.33	110	1.43	36.2	1/2 BSPT	1.74	0.787
3/4"	20	6.16	156.5	6.14	156	4.33	110	1.43	36.2	3/4 BSPT	2.05	0.928
1"	25	7.42	188.5	6.14	156	4.31	109.5	1.43	36.2	1 BSPT	2.62	1.189
1-1/4"	32	9.41	239.0	9.61	244	8.07	205	1.89	48	1 1/4 BSPT	6.86	3.113
1-1/2"	40	9.96	253.0	9.80	249	8.07	205	1.89	48	1 1/2 BSPT	8.34	3.785
2"	50	10.93	277.5	10.00	254	8.07	205	1.89	48	2 BSPT	10.35	4.695



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