

# BACK PRESSURE REGULATING VALVE

Model BQ



The **Model BQ Back Pressure Regulating Valve** is a self-operated, spring-loaded back pressure regulating valve. Typically the Model BQ is installed at the far end of the oil supply line, downstream of the boiler fuel metering valves and passes unburned oil to the return line. Alternately, the Model BQ may be installed upstream of the boiler fuel metering valves. In both cases, the valve passes oil to the return line in order to maintain a constant supply pressure to the fuel metering valves.

The Model BQ is a 1/2" NPT valve with cast iron body, bronze trim, composition disc and neoprene diaphragm. The diaphragm is suitable for use with fluid temperature up to 200° F. The valve has capacities of 390 GPH for No. 2 or No. 4 oil and 275 GPH for No. 6 oil at a viscosity of 3500 SSU. The Model V Back Pressure Regulating Valve is recommended for higher flow rates.

### Suggested Specifications

Provide and install a Back Pressure Regulating Valve as shown on the contract drawings. The valve shall be a 1/2" NPT Preferred Utilities Mfg. Corp., Danbury, CT, **Model BQ**, with adjustable range from \_\_\_\_\_ to \_\_\_\_\_ PSIG, cast iron body, bronze trim and neoprene diaphragm.

### Ordering Information

Catalog Number	Size	Spring Range PSI	Set Pressure PSI	Weight (lbs.)	Gallons Per Minute		
					Oil Viscosity, SSU		
					35	300	750
11825	1/2"	2 to 30	3	8.0	1.03	0.89	0.72
11665	1/2"	5 to 15	5	8.0	4.05	3.61	3.17
11666	1/2"	10 to 25	10	8.0	6.16	5.41	4.75
11664	1/2"	20 to 75	20	8.0	10.09	9	8.53
11667	1/2"	65 to 150	65	8.0	14.81	13.2	11.6
11668	1/2"	150 to 300	150	8.0	21.9	19.52	17.14