

PRESSURE REDUCING VALVE

Model O

The **Model O Pressure Regulating Valve** is a self-operated spring-loaded pressure regulating valve. Typically the Model O is installed in the supply line to boiler fuel metering valves. The valve senses downstream pressure to maintain a constant supply pressure to the fuel metering valves.

The Model O is a ½" or 1" NPT, 250 lb. cast iron body, stainless steel trim and disk. The valve has a neoprene and nylon fiber diaphragm rated for 180° F maximum temperature. The valve capacities are shown in the table below.

The Model O is designed for pressure reduction only and should not be considered a shut off valve. In times when the boiler is not operating, pressure may bleed through, increasing the downstream pressure above setpoint. Installation of a shutoff valve prior to this valve, closing when the burner is de-energized, should prevent pressure bleed through.

Suggested Specifications

Provide and install a Pressure Regulating Valve as shown on the contract drawings. The valve shall be a 1" (½") NPT Preferred Utilities Mfg. Corp., Danbury, CT, **Model O**. The valve shall be diaphragm-operated with 250 lb cast iron body, hardened stainless steel trim with an adjustable spring range from _____ to _____ PSIG.



Model O, Pressure Reducing Valve

Flow Table

Inlet Pressure (PSI)	Outlet Pressure (PSI)	Gallons per hour	
		½"	1"
10	2	306	822
10	5	204	670
30	5	516	1440
30	10	462	1290
30	20	306	930
100	30	876	2424
100	50	720	2064
100	70	570	1602

Capacities based on 50 SSU Liquids

Ordering Information

Catalog Number	Size	Spring Range PSIG	Weight
11840	½"	0 to 10	8.0 lbs.
11841	½"	10 to 50	8.0 lbs.
11842	½"	40 to 100	8.0 lbs.
11843	1"	0 to 10	18 lbs.
11844	1"	10 to 30	18 lbs.
11845	1"	30 to 130	18 lbs.

Large pressure reductions may require multiple pressure reducing valves - Contact factory for details