

## FOOT VALVE EXTRACTOR FITTING

Model 233-FV

The Model 233-FV Foot Valve Extractor Fitting permits easy removal and reinstallation of the Model 22 Double Poppet Foot Valves or Model 900 Single Poppet Foot Valves sizes smaller than 1½". The removable access cap is gasket sealed to prevent loss of prime due to air leakage.

### Suggested Specifications

Furnish and install at the tank suction stub exit the Model 233-FV Foot Valve Extractor Fitting. If the riser pipe is extended to grade, protect the installation with a Preferred Utilities Mfg. Corp. 4" Model W Watertight Fill Box. The foot valve extractor fitting shall be a Preferred Utilities Mfg. Corp., Danbury, CT, Model 233-FV.



### Specifications

**Bottom Thread:** 4" NPT for connection to tank entrance fitting  
**Top Thread:** 4" for a riser pipe to grade (if required)  
**Inlet:** 1½" NPT suction stub  
**Outlet:** 1½" NPT  
**Maximum clear I.D. through the valve:** 2 ⅞"

### Ordering Information

Foot Valve Extractor Fitting: 233-FV: (1 ½")  
 Preferred Extractor Wrench: 89 (for 4 feet depth)  
 Weight: 20.7 lbs.

## 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 ½" NPT valve with cast iron body, brass trim, composition disc and neoprene diaphragm. The diaphragm is suitable for use with fluid temperatures 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 ½" 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	½"	2 to 30	3	18.2	1.03	0.89	0.72
11665	½"	5 to 15	5	18.2	4.05	3.61	3.17
11666	½"	10 to 25	10	18.2	6.16	5.41	4.75
11664	½"	20 to 75	20	18.2	10.09	9	8.53
11667	½"	65 to 150	65	18.2	14.81	13.2	11.6
11668	½"	140 to 300	150	18.2	21.9	19.52	17.14

## BACK PRESSURE REGULATING VALVE

### Model V

The Model V Back Pressure Regulating Valve is a self-operated, spring-loaded back pressure regulating valve. Typically the Model V is installed at the far end of the oil supply line, down stream of the boiler fuel metering valves and passes unburned oil to the return line. Alternately, the Model V 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 V is a 1" NPT, 250 lb. cast iron body, balanced-cage, hardened and polished stainless steel trim. The 30 to 150 PSI range valve has a Teflon seat and stainless steel diaphragm while other ranges have Viton seats and six (6) ply Teflon composition diaphragms for increased responsiveness. The valve capacities are shown in the table below.

#### Suggested Specifications

Provide and install a Back Pressure Regulating Valve as shown on the contract drawings. The valve shall be a 1" NPT Preferred Utilities Mfg. Corp., Danbury, CT, Model V. 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 V, Back Pressure Regulating Valve

Fuel Oil Specialties

#### Ordering Information

Select catalog number from the table below.

Catalog Number	Size	Spring Range PSI	Set Pressure PSI	Weight (lbs.)	Gallons per hour		
					Oil Viscosity, SSU		
					35	300	750
12784	1"	1 to 5	3	28.3	300	750	not rec.
12763	1"	5 to 20	15	28.3	1500	1250	1000
12764	1"	20 to 80	50	28.3	1350	1100	900
12765	1"	30 to 150	100	28.3	2500	2000	1750
12765	1"	30 to 150	125	28.3	2800	2200	1850