

# TYPE 10 PRESSURE REDUCING VALVE

Bronze Body and Trim  
Single Seat – Tight Closing  
Spring Range 5 to 30; 15 to 100  
Water, Oil, Air Service

Maximum allowable pressure on plumbing fixtures is generally about 40 pounds. When the supply is from high pressure mains, or that may, in case of fire, be under high pressures temporarily, it is necessary to use pressure reducing valves to protect the fixtures and insure satisfactory operation. In industrial plants, water regulators frequently are required for processing and other specific purposes.

While the Type 10 Regulator is widely used for water pressure reduction, it is equally well adapted for the reduction of air if the operating pressure conditions are within its limitations. **Maximum initial pressure 150 psi. Minimum reduced pressure 5 psi.**

**Construction/Operation:** The valve body and trim are bronze and the spring case is cast iron. It is equipped with a standard renewable composition disc and has a neoprene diaphragm.

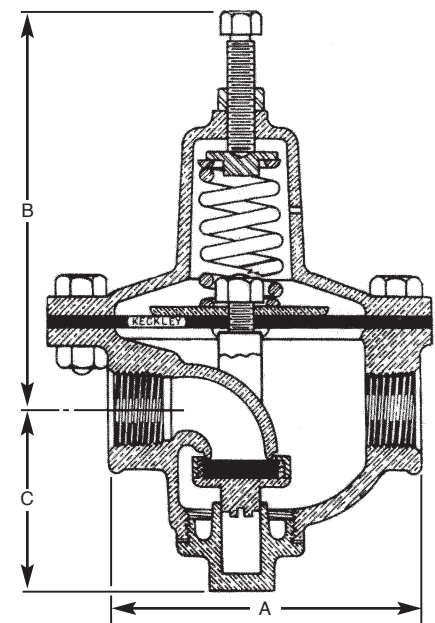
Removal of the bottom cap exposes the disc for inspection or replacement. The disc is mounted on a plate guide that slips into the pusher yoke. The assembly may be easily removed by hand. Complete inspection or replacement of any part can be made without removal of the valve body from the pipe line.

Port area is full pipe area. Normally the valve is forced open by the compression spring. Flow enters over the disc and comes in contact with the diaphragm as it passes to the outlet. When the outlet pressure on the diaphragm overcomes the spring, the valve closes against the inlet pressure.

*For water pressure reducing valve, pipe sizes larger than 1", see Type 700, page 8.*



TYPE 10



### DIMENSIONS—WEIGHTS (approximate)

Bronze Body Maximum Working Pressure 150 lbs.		Bronze Body Screwed Ends			
SIZE Inches	A	C	B	Shipping Weight	
½	4¼	2¾	5%	9	
¾	4¼	2¾	5%	9	
1	4¼	2¾	5%	9	

### MAXIMUM CAPACITIES • CUBIC FEET OF AIR PER MINUTE

Inlet Pressure	Outlet Pressure	VALVE SIZES			
		¼	½	¾	1
25	10	4.4	17.5	39	70
50	8-30	7.3	29	65	115
75	8-45	10.0	40	90	160
75	55	8.3	33	75	135
100	8-55	12.5	50	110	200
150	8-60	18.8	75	170	300

### MAXIMUM CAPACITIES • GALLONS OF WATER PER MINUTE

Inlet Pressure	Outlet Pressure	VALVE SIZES				Inlet Pressure	Outlet Pressure	VALVE SIZES			
		¼	½	¾	1			¼	½	¾	1
25	10	.9	3.5	7.9	14	75	40	1.4	5.5	12.4	22
25	15	.7	3.0	6.7	12	75	60	.9	3.5	7.9	14
25	20	.5	2.0	4.5	8	100	10	2.2	8.7	19.7	35
50	10	1.4	5.7	12.9	23	100	30	1.9	7.5	16.9	30
50	20	1.2	5.0	11.2	20	100	50	1.6	6.5	14.6	26
50	30	1.0	4.0	9.0	16	150	20	2.7	10.7	24	43
50	40	.7	3.0	6.7	12	150	40	2.4	9.5	21	38
75	10	1.8	7.2	16.3	29	150	60	2.2	8.7	19.7	35
75	20	1.7	6.7	15.2	27	—	—	—	—	—	—

### DATA REQUIRED WHEN ORDERING:

1. Size
2. Media
3. Inlet pressure
4. Outlet pressure
5. Capacity