



SPECIFICATIONS:

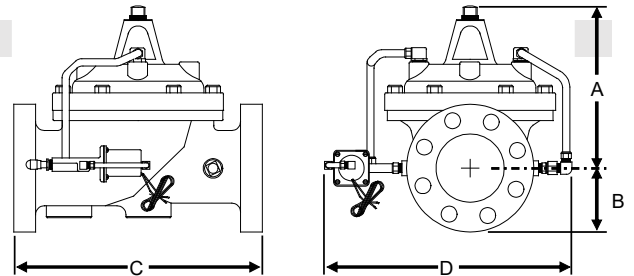
Operating Pressure: 2 to 200 PSI
Voltage Operating Range: 22-28 VAC
Low Current Requirement: 0.40 A at 24 VAC
Assembly: Valve comes fully assembled

MATERIALS

End Connections: Flanged 150 ANSI
Stem, Nut & Spring: Stainless Steel
Diaphragm: Nylon-Reinforced Buna-N
Disc: Buna-N
Disc Retainer: Cast Iron
Diaphragm Washer: Cast Iron
Disc Guide Seat: Bronze
Cover Bearing: Bronze

DIMENSIONS & WEIGHTS (NOMINAL)

SIZE	MODEL NO.	A (IN)	B (IN)	C (IN)	D (IN)	APPROX SHIP WT IN LBS
4"	2160P	10.62	4.50	15.00	15.50	140
6"	2160Q	13.38	5.50	20.00	19.75	280
8"	2160R	16.00	6.75	25.38	24.00	500



PRESSURE LOSS (PSI) AT VARIOUS FLOWRATES

SIZE	FLOWRATE (GPM)																										
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	3000	3100	3200	3300	3400
4"	1.0	2.3	4.0	6.3	9.0	12.3	16.0	20.3	CONSULT WITH FACTORY																		
6"	USE 1 PSI			0.8	1.2	1.7	2.3	3.0	3.8	4.7	5.7	6.8	8.0	9.3	10.6	12.1	13.7	15.3	17.1	18.9	20.8	IN THIS RANGE					
8"	DROP IN THIS RANGE					0.8	1.1	1.4	1.7	2.0	2.4	2.9	3.3	3.8	4.3	4.9	5.5	6.1	6.7	7.4	8.2	15.2	16.2	17.3	18.4	19.5	

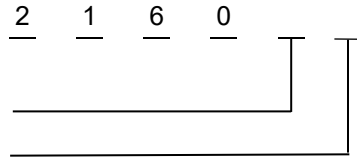
APPLICATIONS

The 2160 Solenoid valve offers maximum performance combined with the reliability you have come to expect from Griswold Controls. The valve is ideally suited for use medium to large irrigation systems. The 2160 is designed for use as a normally-open master valve.

MODEL NUMBER SELECTION

Select a size (4"=P, 6"=Q, 8"=R)

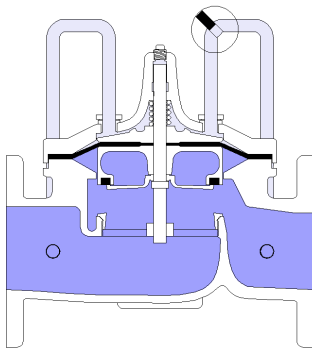
Add an "R" for Reclaimed Water



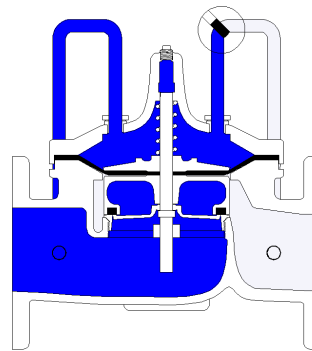
DESCRIPTION:

- Normally Open: Energize Solenoid to Close Valve, De-Energize to Open Valve
- On/Off Solenoid Control Valve
- Watertight Epoxy Molded Solenoid Coil
- Slow Closing
- "No Surge or Hammer" Operation
- Will Throttle Against Flow Without Chatter
- Diaphragm-Disc Assembly Guided by Stainless Steel Stem in all Positions
- Completely Serviceable Without Removing Valve Body from the System

THEORY OF OPERATION

**FULL OPEN OPERATION**

When pressure in the cover chamber is relieved to a zone of lower pressure, the line pressure at the valve inlet opens the valve, allowing full flow.

**TIGHT CLOSING OPERATION**

When pressure from the valve inlet is applied to the cover chamber, the valve closes drip-tight.