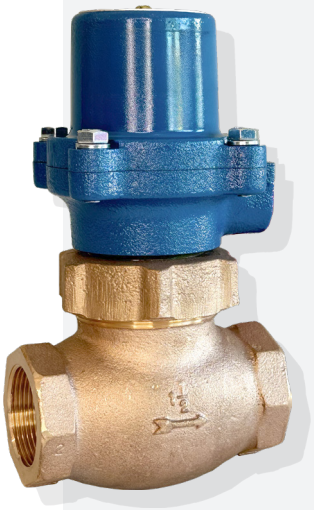
Gould SOLENOID VALVES
A J.D. Gould Company

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GouldValve.com



Type Q-230 & QR-230 Series

2-Way • Cast Bronze Bodies • Packless
Velvetrol® Internal Piston Pilot Operated
Safety Solenoid Valves for Hazardous Locations
Normally Closed or Normally Open

For: Gasoline, Diesel Fuel, #1 and #2 Fuel Oils – Class 1 Div 2 Group D, Class 2 Group E, F, G. NEMA 7 Explosion Proof. Also meets NEMA 4 Watertight & NEMA 5 Dust Tight.
Pressures: 5psi minimum to 150psi maximum | Full Port
Temperature: -40ºF to 300ºF | Class F Coils
Mounting: Install in horizontal line with coil upright and on top (unless ordered with -76 vertical mounting option)
Pipe Sizes: 1/8" – 3" NPT • Full Port
Normally Closed or Normally Open

Service Ratings	Complete pricing, service & electrical ratings are shown on the List Price Schedule. Valves will be furnished for 5-150 PSI and 120 VAC unless otherwise specified.	
Normally Closed		**Normally Open**
Q-230 (UL)	Gasoline, Diesel Fuel, #1 and #2 Fuel Oils 5-100psi 220ºF Max. Fluid Temp, Class F Coils 120, 240, 480 VAC (60 Hz), 14 Watts Max.	**N/A**
Q4-230	Gasoline, Diesel Fuel, #1 and #2 Fuel Oils 5-150psi 300ºF Max. Fluid Temp, Class F Coils 12, 24, 120, 240, 480 VAC (60 Hz) 12, 24, 48, 115, 230 VDC	**QR-230**
Add: -81, -84	-81 Factory Slow Close Option (Reduces Water Hammer) -84 Factory Quick Close Option	**Add: -81, -84**
Add: -76	Spring Loaded Pilot for vertical mounting. Limitations apply. Consult factory.	**Add: -76**

Construction:

- **Class F Coils** are waterproof, fungusproof, molded of filled polyester with 18" leads, inside an enamel painted cast iron NEMA 7 coil housing with a ½" NPT conduit connector.
- **Bodies** are Globe Style with Union Bonnets, rated to 400 PSI and cast in bronze.
- **Bonnet Assemblies** are 304 SS tubes, brass bonnets, and brass tube plugs silver soldered together.
- **Piston Assemblies** are brass with filled PTFE piston rings, Stainless Steel expanders, and Viton® seat discs and pilot discs.
- **Pilot Assemblies** are 416 SS Armature with a 316SS pilot point and 316SS pins.
- **Piston springs** are Stainless Steel.

Specials:

- Slow Close (-81) or Quick Close (-84) factory settings available at no charge.
- Spring-loaded pilot (-76) for vertical mounting available. Limitations apply. Consult factory.
- Teflon™ coated pistons & other special assemblies available.
- Non-standard coils available with voltage, wattage, and lead wire length to your specifications.

Teflon™ is a DuPont Company trademark. Viton® is a registered trademark of DuPont Dow Elastomers.See Price Schedule for "Terms and Conditions of Sale".

Performance, Ordering, and Installation Guide

Ordering Data: Specify the pipe size, type, fluid, operating pressure, temperature range, electrical specifications, and backpressure (if any).

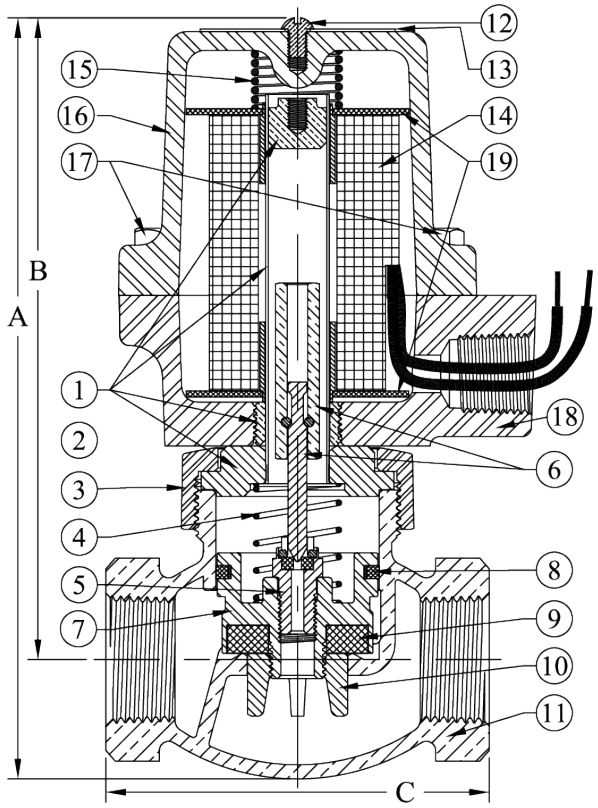
Flow Characteristics: See flow curves in Bulletin 5-FL, or Cv Factors listed below and in Bulletin CP-1

Operation: Piston pilot operated, minimum pressure drop of 5psi (ΔP) is required across the valve for operation.

Mounting: Mount in horizontal line with coil vertical (±7°) and on top (unless ordered with -76 spring loaded pilot for vertical mounting). Install 40 mesh strainer (not larger) ahead of the valve. Check for proper coil voltage. Make sure that the flow arrow on the valve body is pointing in the direction of flow.

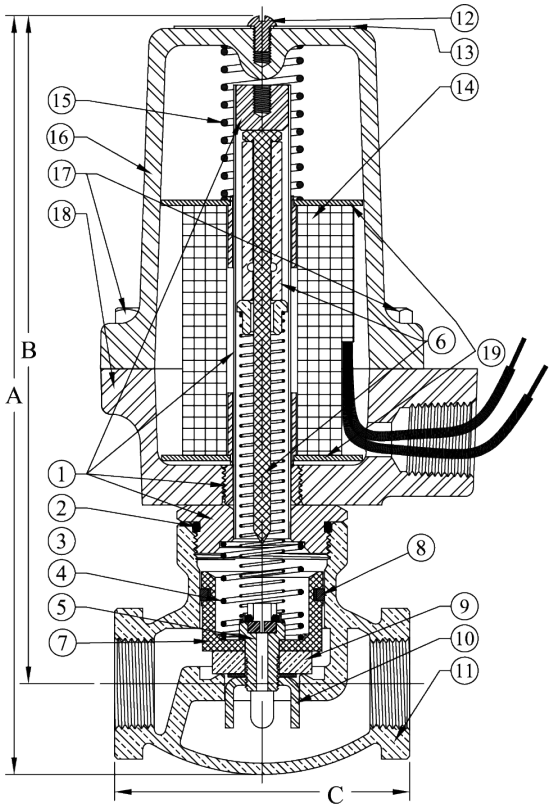
Servicing: Solenoid valves should be frequently checked for operation, cleanliness, and internal wear. Repair Kits are factory available – be sure to specify size, type, serial number or operating data, voltage, pressure, etc.)

Valve Size	Cv Factor	Valve Dimensions					Normally Open			
		Normally Closed								
		A	B	C	Weight (lbs.)		A	B	C	Weight (lbs.)
1/8″	1.3	7	6.19	2.75	7	The Explosion Proof housing is constructed of two (2) machined, enamel painted sand-cast gray iron parts bolted together, threaded onto the bonnet assembly and rigidly cemented in place. Once assembled the housing will not rotate. Also meets NEMA 4 Watertight and NEMA 5 Dust Tight.	8.13	7.31	2.75	8
1/4″	2.1	7	6.19	2.75	7		8.13	7.31	2.75	8
3/8″	2.3	7	6.19	2.75	7		8.13	7.31	2.75	8
1/2″	3.9	7	6.19	2.75	7		8.13	7.31	2.75	8
3/4″	5.1	7.38	6.38	3.25	8		8.50	7.50	3.25	9
1″	11.6	7.63	6.44	3.81	9		8.75	7.56	3.81	10
1-1/4″	12.1	8.38	6.88	4.25	10		9.50	8.00	4.25	11
1-1/2″	26	8.88	7.25	4.88	12		10.00	8.38	4.88	13
2″	48	9.81	7.69	5.88	17		10.94	8.81	5.88	18
2-1/2	75	10.13	8.25	7.00	22		11.25	9.38	7.00	22
3	100	11.19	8.38	8.25	31		12.31	9.50	8.25	31



1” Q-230

Parts Details	
1	Bonnet Assembly
2	Bonnet Seal (N/A 1” - 3”)
3	Bonnet Ring (N/A 1/8” - 3’4”)
4	Piston Spring
5	Seat Screw
6	Pilot Valve
7	Piston
8	Piston Ring & Expander
9	Seat Disc
10	Guide Nut
11	Body
12	Coil Screw
13	Name Plate
14	Coil
15	Coil Spring
16	XP Cover
17	Bolts & Washers (x4)
18	Base
19	End Plates



3/4” QR-230

Parts Details	
1	Bonnet Assembly
2	Bonnet Seal (N/A 1” - 3”)
3	Bonnet Ring (N/A 1/8” - 3/4”)
4	Piston Spring
5	Seat Screw
6	Pilot Valve
7	Piston
8	Piston Ring & Expander
9	Seat Disc
10	Guide Nut
11	Body
12	Coil Screw
13	Name Plate
14	Coil
15	Coil Spring
16	XP Cover
17	Bolts & Washers (x4)
18	Base
19	End Plates