

GOLD RING Series 34 High Flow Three-Way Internally Piloted Diaphragm Valves

SPECIFICATIONS

Mechanical Characteristics

Standard Materials of Construction

- Body-Brass
- Seals-NBR
- Plunger and Pole Piece-430FR Stainless Steel
- Plunger Tube-305 Stainless Steel
- Springs-302 Stainless Steel
- Shading Coil-Copper (Brass Bodies)
- Disc Holder-Celcon

Compatible Fluids

- Series 34 valves are ideal for control of a variety of media including gases and water

Electrical Characteristics

Voltages

- DC-6, 12, 24, 120, 125 (other voltages available upon request)
- AC-24/60, 110/120-50/60, 220/240-50/60, 440/480-50/60

Coil

- Class F Standard, Class H Available

Miscellaneous

Temperature Ratings (media as listed)

- AC Voltages: 180°F max.
- DC Voltages: 180°F max.
- Ambient: 32-77°F (standard)
- For temperature variations, consult the factory.

Installation

- For proper operation, valves should be mounted vertical and upright. Product and mounting dimensions shown are nominal. For certified dimensions, consult factory.

Applications

- Used in a variety of applications including: Pilots, Cylinders, Compressor Unloaders and Turbines.

Operating Specifications

- Normally Closed-energize to pressurize operating device. De-energized to exhaust operating device.
- Normally Open-energize to exhaust operating device. De-energized to pressurize operating device.

PILOTED DIAPHRAGM BRASS VALVES—NORMALLY CLOSED (ENERGIZE TO OPEN), NBR SEALS

AC VALVE SPECIFICATIONS

NPT Pipe Size	Orifice Diameter		Flow Factor		Operating Pressure Differential								Max. Temp.		AC Watt	Const. Ref.	Valve Part Number
	inch	mm	Cv	Kv	Min. (PSI/Bar)	Max. (MOPD)						°F	°C				
						Air, Inert Gas (PSI/Bar)		Water (PSI/Bar)		Light Oil 300SSU (PSI/Bar)							
3/8	5/8	15.88	3.00	2.59	10	0.69	125	8.62	125	8.62	125	8.62	180	82	6.0	77	06F34C2140AAF
3/8	5/8	15.88	3.00	2.59	10	0.69	250	17.24	250	17.24	250	17.24	180	82	16.7	78	06F34C2140ADF
1/2	5/8	15.88	4.00	3.45	10	0.69	125	8.62	125	8.62	125	8.62	180	82	6.0	77	08F34C2140AAF
1/2	5/8	15.88	4.00	3.45	10	0.69	250	17.24	250	17.24	250	17.24	180	82	16.7	78	08F34C2140ADF
3/4	5/8	15.88	5.00	4.31	10	0.69	125	8.62	125	8.62	125	8.62	180	82	6.0	79	12F34C2140AAF
3/4	5/8	15.88	5.00	4.31	10	0.69	250	17.24	250	17.24	250	17.24	180	82	16.7	80	12F34C2140ADF

PILOTED DIAPHRAGM BRASS VALVES—NORMALLY OPEN (ENERGIZE TO CLOSE), NBR SEALS

AC VALVE SPECIFICATIONS

NPT Pipe Size	Orifice Diameter		Flow Factor		Operating Pressure Differential								Max. Temp.		AC Watt	Const. Ref.	Valve Part Number
	inch	mm	Cv	Kv	Min. (PSI/Bar)	Max. (MOPD)				°F	°C						
						Air, Inert Gas (PSI/BAR)		Water (PSI/Bar)				Light Oil 300SSU (PSI/BAR)					
3/8	5/8	15.88	3.00	2.59	10	0.69	225	15.52	225	15.52	225	15.52	180	82	11.0	81	06F34O2140ACF
1/2	5/8	15.88	4.00	3.45	10	0.69	225	15.52	225	15.52	225	15.52	180	82	11.0	81	08F34O2140ACF
3/4	5/8	15.88	5.00	4.31	10	0.69	225	15.52	225	15.52	225	15.52	180	82	11.0	82	12F34O2140ACF

PILOTED DIAPHRAGM BRASS VALVES—NORMALLY CLOSED (ENERGIZE TO OPEN), NBR SEALS

DC VALVE SPECIFICATIONS

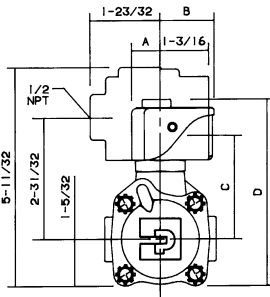
NPT Pipe Size	Orifice Diameter		Flow Factor		Operating Pressure Differential								Max. Temp.		AC Watt	Const. Ref.	Valve Part Number
	inch	mm	Cv	Kv	Min. (PSI/Bar)	Max. (MOPD)						°F	°C				
						Air, Inert Gas (PSI/Bar)		Water (PSI/Bar)		Light Oil 300SSU (PSI/Bar)							
3/8	5/8	15.88	3.00	2.59	10	0.69	125	8.62	125	8.62	125	8.62	120	49	9.5	77	06F34C2140A1F
3/8	5/8	15.88	3.00	2.59	10	0.69	250	17.24	250	17.24	250	17.24	180	82	11.5	78	06F34C2140A3F
1/2	5/8	15.88	4.00	3.45	10	0.69	125	8.62	125	8.62	125	8.62	120	49	9.5	77	08F34C2140A1F
1/2	5/8	15.88	4.00	3.45	10	0.69	250	17.24	250	17.24	250	17.24	180	82	11.5	78	08F34C2140A3F
3/4	5/8	15.88	5.00	4.31	10	0.69	125	8.62	125	8.62	125	8.62	120	49	9.5	79	12F34C2140A1F
3/4	5/8	15.88	5.00	4.31	10	0.69	250	17.24	250	17.24	250	17.24	180	82	11.5	80	12F34C2140A3F

PILOTED DIAPHRAGM BRASS VALVES—NORMALLY OPEN (ENERGIZE TO CLOSE), NBR SEALS

DC VALVE SPECIFICATIONS

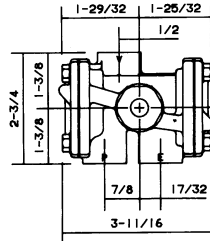
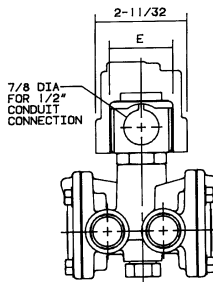
NPT Pipe Size	Orifice Diameter		Flow Factor		Operating Pressure Differential								Max. Temp.		AC Watt	Const. Ref.	Valve Part Number
	inch	mm	Cv	Kv	Min. (PSI/Bar)	Max. (MOPD)						°F	°C				
						Air, Inert Gas (PSI/Bar)		Water (PSI/Bar)		Light Oil 300SSU (PSI/Bar)							
3/8	5/8	15.88	3.00	2.59	10	0.69	225	15.52	225	15.52	225	15.52	180	82	11.5	81	06F34O2140A3F
1/2	5/8	15.88	4.00	3.45	10	0.69	225	15.52	225	15.52	225	15.52	180	82	11.5	81	08F34O2140A3F
3/4	5/8	15.88	5.00	4.31	10	0.69	225	15.52	225	15.52	225	15.52	180	82	11.5	82	12F34O2140A3F

DRAWINGS

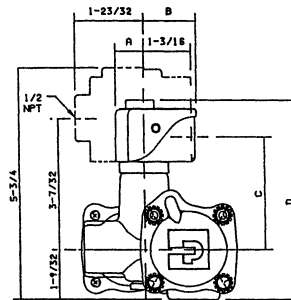


	Drawing 77	Drawing 78	Drawing 81
A	23/32	7/8	7/8
B	1 5/16	1 17/32	1 17/32
C	2 17/32	2 19/32	2 7/16
D	4 9/16	4 25/32	4 25/32
E	1 9/16	1 13/16	1 13/16

Explosion-Proof/Watertight
Shown in Outline

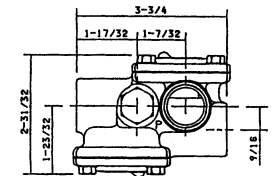
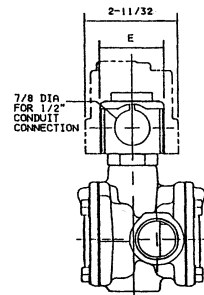


#77, 78, 81



	Drawing 79	Drawing 80	Drawing 82
A	23/32	7/8	7/8
B	1 5/16	1 17/32	1 17/32
C	2 25/32	2 7/8	2 3/4
D	4 15/16	5 5/32	5 5/32
E	1 9/16	1 13/16	1 13/16

Explosion-Proof/Watertight
Shown in Outline



#79, 80, 82

To choose a solenoid for your valve, refer to the AC or DC chart found on the flap attached to the back cover of this catalog.