

GOLD RING Series 35, 38 Quick Exhaust Three-Way Valves

SPECIFICATIONS

Mechanical Characteristics

Standard Materials of Construction

- Body-Series 35: Brass, 303 Stainless Steel; Series 38: Brass
- Seals-NBR or FKM as listed
- Plunger and Pole Piece-430FR Stainless Steel
- Plunger Tube-305 Stainless Steel
- Springs-302 Stainless Steel
- Shading Coil-Copper (Brass Bodies), Silver (Stainless Steel Bodies)
- Disc Holder-Cellon

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

Agency Approvals

- Standard valves with general purpose or explosion proof solenoid enclosures are UL Listed and CSA Certified. For details, consult factory.

Miscellaneous

Temperature Ratings (media as listed)

- AC Voltages: 180°F max.
- DC Voltages: 120°F max.
- Ambient: 32-77°F (standard)
- For temperature variations, consult the factory.

Applications

- Designed to provide large exhaust orifice for quick exhaust. Increased exhaust capacity significantly reduces cycle time for single acting spring return actuators.

QUICK EXHAUST BRASS VALVES-NORMALLY CLOSED (PRESSURE AT 2, ENERGIZE TO OPEN), NBR SEALS

AC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.15	5	0.34	150	10.34	150	10.34	95	6.55	180	82	11.0	84	04F35C1116ACF
1/4	9/32	7.14	11/32	8.73	.80	0.69	1.20	0.59	10	0.69	200	13.79	200	13.79	200	13.79	180	82	6.0	85	04F38C1122AAF
3/8	9/32	7.14	11/32	8.73	.80	0.69	1.20	0.59	10	0.69	200	13.79	200	13.79	200	13.79	180	82	6.0	85	06F38C1122AAF

QUICK EXHAUST BRASS VALVES-NORMALLY OPEN (PRESSURE AT 3, ENERGIZE TO CLOSE), NBR SEALS

AC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	160	11.03	160	11.03	95	6.55	180	82	11.0	84	04F35O1116ACF
1/4	9/32	7.14	11/32	8.73	.80	0.69	1.20	1.03	10	0.69	200	13.79	200	13.79	200	13.79	180	82	6.0	85	04F38O1122ACF
3/8	9/32	7.14	11/32	8.73	.80	0.69	1.20	1.03	10	0.69	200	13.79	200	13.79	200	13.79	180	82	6.0	85	06F38O1122ACF

QUICK EXHAUST BRASS VALVES-UNIVERSAL (PRESSURE AT 2 OR 3), NBR SEALS

AC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	80	5.52	80	5.52	50	3.45	180	82	11.0	84	04F35U1116ACF

QUICK EXHAUST STAINLESS STEEL VALVES-NORMALLY CLOSED (PRESSURE AT 2, ENERGIZE TO OPEN), NBR SEALS

AC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	150	10.34	150	10.34	95	6.55	180	82	11.0	84	04F35C3116ACF

QUICK EXHAUST STAINLESS STEEL VALVES – NORMALLY OPEN (PRESSURE AT 3, ENERGIZE TO CLOSE), NBR SEALS

AC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	160	11.03	160	11.03	95	6.55	180	82	11.0	84	04F35O3116ACF

QUICK EXHAUST STAINLESS STEEL VALVES – UNIVERSAL (PRESSURE AT 2 OR 3), NBR SEALS

AC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	80	5.52	80	5.52	50	3.45	180	82	11.0	84	04F35U3116ACF

QUICK EXHAUST BRASS VALVES – NORMALLY CLOSED (PRESSURE AT 2, ENERGIZE TO OPEN), NBR SEALS

DC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	115	7.93	115	7.93	60	4.14	104	40	11.5	84	04F35C1116A3F
1/4	9/32	7.14	11/32	8.73	.80	0.69	1.20	1.03	10	0.69	200	13.79	200	13.79	200	13.79	120	49	11.5	85	04F38C1122A3F
3/8	9/32	7.14	11/32	8.73	.80	0.69	1.20	1.03	10	0.69	200	13.79	200	13.79	200	13.79	120	49	11.5	85	06F38C1122A1F

QUICK EXHAUST BRASS VALVES – NORMALLY OPEN (PRESSURE AT 3, ENERGIZE TO CLOSE), NBR SEALS

DC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	100	6.90	100	6.90	50	3.45	104	40	11.5	84	04F35O1116A3F
1/4	9/32	7.14	11/32	8.73	.80	0.69	1.20	1.03	10	0.69	200	13.79	200	13.79	200	13.79	120	49	11.5	85	04F38O1122A3F
3/8	9/32	7.14	11/32	8.73	.80	0.69	1.20	1.03	10	0.69	200	13.79	200	13.79	200	13.79	120	49	11.5	85	06F38O1122A3F

QUICK EXHAUST BRASS VALVES – UNIVERSAL (PRESSURE AT 2 OR 3), NBR SEALS

DC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	60	4.14	60	4.14	30	2.07	104	40	11.5	84	04F35U1116A3F

QUICK EXHAUST STAINLESS STEEL VALVES – NORMALLY CLOSED (PRESSURE AT 2, ENERGIZE TO OPEN), NBR SEALS

DC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	115	7.93	115	7.93	60	4.14	104	40	11.5	84	04F35C3116A3F

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.

Series 35, 38 Quick Exhaust Three-Way Valves

QUICK EXHAUST STAINLESS STEEL VALVES— NORMALLY OPEN (PRESSURE AT 3, ENERGIZE TO CLOSE), NBR SEALS

DC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	100	6.90	100	6.90	50	3.45	104	40	11.5	84	04F3503116A3F

QUICK EXHAUST STAINLESS STEEL VALVES—UNIVERSAL (PRESSURE AT 2 OR 3), NBR SEALS

AC VALVE SPECIFICATIONS

NPT	Orifice Pressure		Orifice Exhaust		Pressure		Exhaust		Operating Pressure Differential				Max. Temp.		AC Watt	Const. Ref.	Valve Part Number				
	inch	mm	inch	mm	Cv	Kv	Cv	Kv	Max. (MOPD)				°F	°C							
									Min. (PSI/Bar)	Air, Inert Gas (PSI/Bar)	Water (PSI/Bar)	Light Oil 300SSU (PSI/Bar)									
1/4	3/32	2.38	1/4	6.35	.20	0.17	.73	0.63	5	0.34	80	5.52	80	5.52	50	3.45	180	82	11.0	84	04F35U1116ACF

DRAWINGS

	NORMALLY CLOSED	NORMALLY OPEN
A	1-21/32	1-23/32
B	3-33/64	3-37/64
C	23/32	7/8
D	1-5/16	1-17/32
E	1-9/16	1-13/16

#84

#85

Three-Way Solenoid Valves

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