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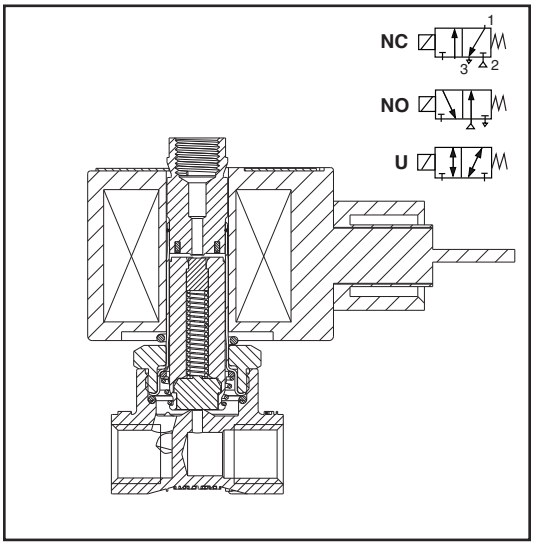
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Find the *Emerson / Asco EF8314G35* at our website: *Click HERE*

Features

- No minimum operating pressure required
- The original 3-way valve design
- Simplest valve for basic 3-way piloting operation, only a spring and two moving parts
- Moderate flow pilots, smaller control valves and actuators
- Can also be used for low-volume fluid diversion
- High speed general service





Construction

Valve Parts in Contact with Fluids		
Body	Brass	Cast 304 Stainless Steel
Seals and Discs	Nitrile (Upper Disk - FKM)	
Core Tube	305 Stainless Steel	
Core and Plugnut	430F Stainless Steel	
Core Springs	302 Stainless Steel	
Shading Coil	Copper	Silver
Core Guide	POM	

Electrical

Standard Coil and Class of Insulation	Watt Rating and Power Consumption				Spare Coil Part Number			
		AC			General Purpose		Explosionproof	
	DC Watts	Watts	VA Holding	VA Inrush	AC	DC	AC	DC
F	11.6	10.1	25	50	238610	238710	238614	238714

Standard Voltages: 24, 120, 240, 480 volts AC, 60 Hz (or 110, 220, 440 volts AC, 50 Hz). 6, 12, 24, 120, 240 volts DC. Must be specified when ordering. Other voltages are available when required.

Solenoid Enclosures

Standard: Watertight, Types 1, 2, 3, 3S, 4, and 4X.

Optional: Explosionproof and Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9. (To order, add prefix "EF" to catalog number.)

See Optional Features Section for other available options.

Options

Mounting bracket (suffix MB)
Quarter-turn manual operator with screw slot (suffix MS)
FKM (suffix V)
Oxygen (suffix N)
Silicon Free (suffix SF)

Nominal Ambient Temp. Ranges

The nominal limitation of 32˚F (0˚C) is advisable for any valve that might contain moisture (water vapor).

AC: -13˚F to 131˚F (-25˚C to 55˚C)*
DC: -13˚F to 131˚F (-25˚C to 55˚C)
*Max. ambient for explosionproof (EF/EV) is 125˚F (52˚C)

Optional: For AC, the max. ambient temperature is 140˚F (60˚C) with Class H coil (with or without prefix EF/EV)

Refer to Engineering Section for details.

Approvals

CSA certified. UL listed General Purpose Valves.

Meets applicable CE directives.

SIL 3 capable per IEC 61508 on normally closed const. Third party certification provided by EXIDA.
Refer to Engineering Section for details.

ATEX/IECEx certified with prefix "EV" as listed. *Refer to Optional Features Electrical Section for details.*

Specifications (English units)

Pipe Size (in)	Orifice Size (in)	Cv Flow Factor 2-1	Cv Flow Factor 1-3	Operating Pressure Differential (psi)						Max. Fluid Temp. °F ①		Brass Body		Stainless Steel Body		Watt Rating/ Class of Coil Insulation	
				Max. AC			Max. DC										
				Air-Inert Gas	Water ②	Light Oil @ 45 SSU	Air-Inert Gas	Water ②	Light Oil @ 45 SSU	AC	DC	Catalog Number	Const. Ref.	Catalog Number	Const. Ref.	AC	DC
Universal Operation (Pressure at any port)																	
1/8	3/64	0.05	0.06	200	200	200	200	200	200	200	200	8314H041	1	8314H042	1	10.1/F	11.6/F
1/8	3/32	0.15	0.20	105	85	60	105	85	60	200	200	8314H043	1	8314H044	1	10.1/F	11.6/F
1/8	1/8	0.25	0.20	70	70	40	55	45	45	200	200	8314H045	1	8314H040	1	10.1/F	11.6/F
1/4	3/64	0.05	0.06	200	200	200	200	200	200	200	200	8314H006	2	8314H123	2	10.1/F	11.6/F
1/4	3/32	0.15	0.20	105	85	60	105	85	60	200	200	8314H007	2	8314H120 ③	2	10.1/F	11.6/F
1/4	1/8	0.25	0.20	70	70	40	55	45	45	200	200	8314H008	2	8314H124	2	10.1/F	11.6/F
1/4	5/32	0.50	0.20	35	35	35	25	25	25	200	200	8314H127	2	8314H227	2	10.1/F	11.6/F
1/4	7/32	0.70	0.20	18	18	18	12	12	12	200	200	8314H128	2	8314H228	2	10.1/F	11.6/F
1/4	9/32	0.85	0.20	10	10	10	8	8	8	200	200	8314H129	2	8314H229	2	10.1/F	11.6/F
Normally Closed (Closed when de-energized) – $PFD_{AVG} = 4.77 \times 10^{-4}$																	
1/8	3/64	0.05	0.06	300	300	300	250	250	250	200	200	8314H031	1	8314H037	1	10.1/F	11.6/F
1/8	3/32	0.15	0.20	205	205	190	150	120	90	200	200	8314H032	1	8314H038	1	10.1/F	11.6/F
1/8	1/8	0.25	0.20	145	145	100	90	90	70	200	200	8314H033	1	8314H039	1	10.1/F	11.6/F
1/4	3/64	0.05	0.06	300	300	300	250	250	250	200	200	8314H034	2	8314H068	2	10.1/F	11.6/F
1/4	3/32	0.15	0.20	205	205	190	150	120	90	200	200	8314H035	2	8314H121 ③	2	10.1/F	11.6/F
1/4	1/8	0.25	0.20	145	145	100	90	90	70	200	200	8314H036	2	8314H126	2	10.1/F	11.6/F
1/4	5/32	0.50	0.20	75	75	75	50	50	50	200	200	8314H130	2	8314H230	2	10.1/F	11.6/F
1/4	7/32	0.70	0.20	40	40	40	25	25	25	200	200	8314H131	2	8314H231	2	10.1/F	11.6/F
1/4	9/32	0.85	0.20	25	25	25	15	15	15	200	200	8314H132	2	8314H232	2	10.1/F	11.6/F
Normally Open (Open when de-energized)																	
1/8	3/64	0.05	0.06	300	300	300	250	250	250	200	200	8314H049	1	8314H055	1	10.1/F	11.6/F
1/8	3/32	0.15	0.20	175	175	175	160	160	160	200	200	8314H050	1	8314H056	1	10.1/F	11.6/F
1/8	1/8	0.25	0.20	160	160	160	150	150	120	200	200	8314H051	1	8314H057	1	10.1/F	11.6/F
1/4	3/64	0.05	0.06	300	300	300	250	250	250	200	200	8314H052	2	8314H069	2	10.1/F	11.6/F
1/4	3/32	0.15	0.20	175	175	175	160	160	160	200	200	8314H053	2	8314H122	2	10.1/F	11.6/F
1/4	1/8	0.25	0.20	160	160	160	150	150	120	200	200	8314H054	2	8314H070	2	10.1/F	11.6/F
1/4	5/32	0.50	0.20	150	150	150	65	60	60	200	200	8314H133	2	8314H233	2	10.1/F	11.6/F
1/4	7/32	0.70	0.20	100	100	100	35	35	35	200	200	8314H134	2	8314H234	2	10.1/F	11.6/F
1/4	9/32	0.85	0.20	65	65	65	25	25	25	200	200	8314H135	2	8314H235	2	10.1/F	11.6/F

① Maximum fluid temperature for light oil @ 45 SSU is 180˚F. ② Water rating, CSA certified up to 232 psi. ③ ATEX/IECEx certified with prefix "EV".

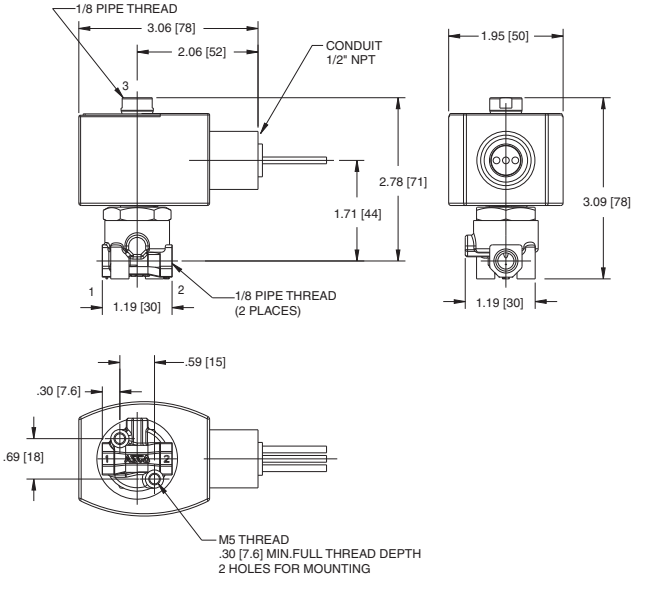
Specifications (Metric units)

Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m^3/h) 2-1	Kv Flow Factor (m^3/h) 1-3	Operating Pressure Differential (bar)						Max. Fluid Temp. °C ①		Brass Body		Stainless Steel Body		Watt Rating/ Class of Coil Insulation	
				Max. AC			Max. DC										
				Air-Inert Gas	Water ②	Light Oil @ 45 SSU	Air-Inert Gas	Water ②	Light Oil @ 45 SSU	AC	DC	Catalog Number	Const. Ref.	Catalog Number	Const. Ref.	AC	DC
Universal Operation (Pressure at any port)																	
1/8	1.2	0.04	0.05	14	14	14	14	14	14	93	93	8314H041	1	8314H042	1	10.1/F	11.6/F
1/8	2.4	0.13	0.17	7	6	4	7	6	4	93	93	8314H043	1	8314H044	1	10.1/F	11.6/F
1/8	3.2	0.22	0.17	5	5	3	4	3	3	93	93	8314H045	1	8314H040	1	10.1/F	11.6/F
1/4	1.2	0.04	0.05	14	14	14	14	14	14	93	93	8314H006	2	8314H123	2	10.1/F	11.6/F
1/4	2.4	0.13	0.17	7	6	4	7	6	4	93	93	8314H007	2	8314H120 ③	2	10.1/F	11.6/F
1/4	3.2	0.22	0.17	5	5	3	4	3	3	93	93	8314H008	2	8314H124	2	10.1/F	11.6/F
1/4	4.0	0.43	0.17	2.5	2.5	2.5	2	2	2	93	93	8314H127	2	8314H227	2	10.1/F	11.6/F
1/4	5.6	0.60	0.17	1.5	1.5	1.5	1	1	1	93	93	8314H128	2	8314H228	2	10.1/F	11.6/F
1/4	7.1	0.73	0.17	0.7	0.7	0.7	0.6	0.6	0.6	93	93	8314H129	2	8314H229	2	10.1/F	11.6/F
Normally Closed (Closed when de-energized) – $PFD_{AVG} = 4.77 \times 10^{-4}$																	
1/8	1.2	0.04	0.05	21	21	21	17	17	17	93	93	8314H031	1	8314H037	1	10.1/F	11.6/F
1/8	2.4	0.13	0.17	14	14	13	10	8	6	93	93	8314H032	1	8314H038	1	10.1/F	11.6/F
1/8	3.2	0.22	0.17	10	10	7	6	6	5	93	93	8314H033	1	8314H039	1	10.1/F	11.6/F
1/4	1.2	0.04	0.05	21	21	21	17	17	17	93	93	8314H034	2	8314H068	2	10.1/F	11.6/F
1/4	2.4	0.13	0.17	14	14	13	10	8	6	93	93	8314H035	2	8314H121 ③	2	10.1/F	11.6/F
1/4	3.2	0.22	0.17	10	10	7	6	6	5	93	93	8314H036	2	8314H126	2	10.1/F	11.6/F
1/4	4.0	0.43	0.17	5.2	5.2	5.2	3.5	3.5	3.5	93	93	8314H130	2	8314H230	2	10.1/F	11.6/F
1/4	5.6	0.60	0.17	3	3	3	2	2	2	93	93	8314H131	2	8314H231	2	10.1/F	11.6/F
1/4	7.1	0.73	0.17	2	2	2	1	1	1	93	93	8314H132	2	8314H232	2	10.1/F	11.6/F
Normally Open (Open when de-energized)																	
1/8	1.2	0.04	0.05	21	21	21	17	17	17	93	93	8314H049	1	8314H055	1	10.1/F	11.6/F
1/8	2.4	0.13	0.17	12	12	12	11	11	11	93	93	8314H050	1	8314H056	1	10.1/F	11.6/F
1/8	3.2	0.22	0.17	11	11	11	10	10	8	93	93	8314H051	1	8314H057	1	10.1/F	11.6/F
1/4	1.2	0.04	0.05	21	21	21	17	17	17	93	93	8314H052	2	8314H069	2	10.1/F	11.6/F
1/4	2.4	0.13	0.17	12	12	12	11	11	11	93	93	8314H053	2	8314H122	2	10.1/F	11.6/F
1/4	3.2	0.22	0.17	11	11	11	10	10	8	93	93	8314H054	2	8314H070	2	10.1/F	11.6/F
1/4	4.0	0.43	0.17	10	10	10	4.5	4.2	4.2	93	93	8314H133	2	8314H233	2	10.1/F	11.6/F
1/4	5.6	0.60	0.17	6.8	6.8	6.8	2.5	2.5	2.5	93	93	8314H134	2	8314H234	2	10.1/F	11.6/F
1/4	7.1	0.73	0.17	4.5	4.5	4.5	2	2	2	93	93	8314H135	2	8314H235	2	10.1/F	11.6/F

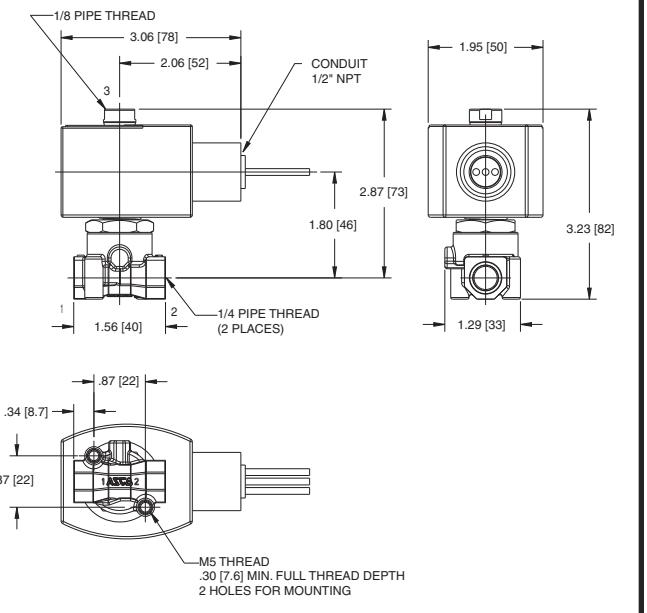
① Maximum fluid temperature for light oil @ 45 SSU is 82°C. ② Water rating, CSA certified up to 16 bar. ③ ATEX/IECEx certified with prefix "EV".

Dimensions: inches (mm)

Const. Ref. 1

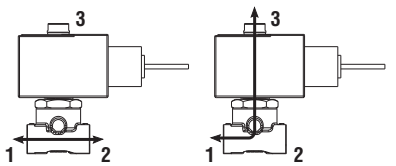


Const. Ref. 2

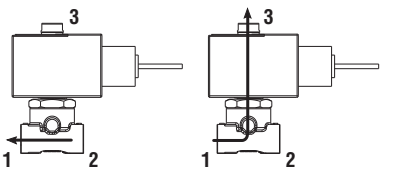


Flow Diagrams

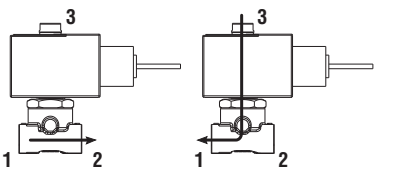
UNIVERSAL CONST.
Pressure at any Port



NORMALLY CLOSED CONST.
Pressure at 2



NORMALLY OPEN CONST.
Pressure at 3



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