

Features

- Designed for high flow and high pressure service.
- Direct acting, requires no minimum operating pressure.
- Choice of metal seating materials to handle aggressive fluids, or resilient seating for airtight shutoff.
- Ideal for power plants and similar applications.

Construction

Valve Parts in Contact with Fluids		
Body	Brass	304 Stainless Steel
Disc	303 Stainless Steel (Metal), PA or Brass (Resilient)	
Seats	NBR, Phosphor Bronze	303 Stainless Steel
Core Tube	305 Stainless Steel	
Core and Plugnut	430 F Stainless Steel	
Springs	302 Stainless Steel, 17-7PH or Inconel	
Shading Coil	Copper	Silver
Gaskets	NBR	PTFE

Electrical

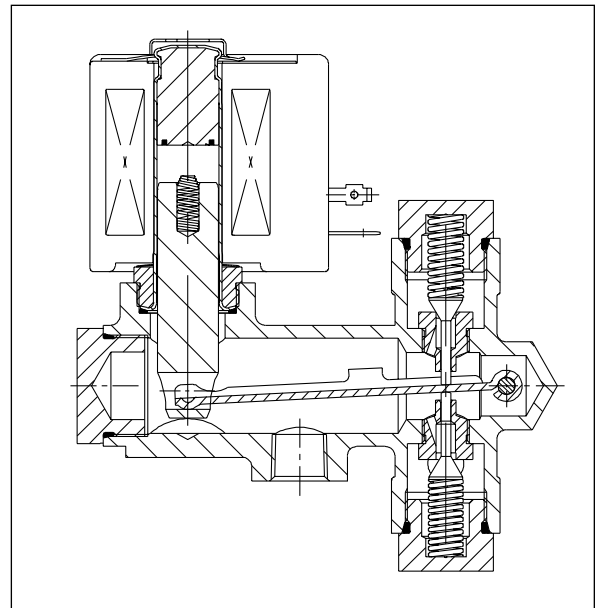
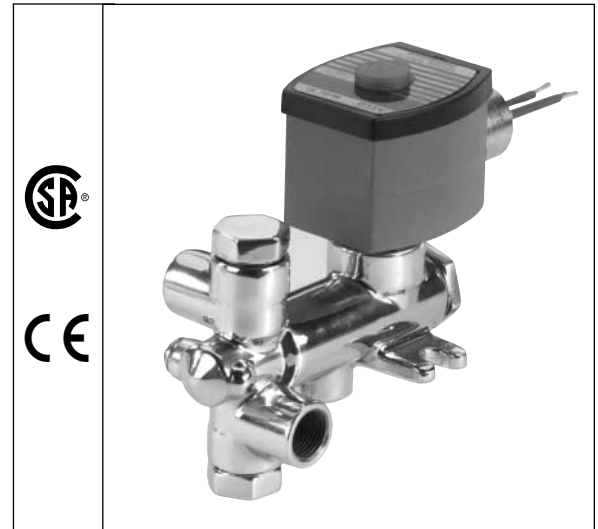
Standard Coil and Class of Insulation	Watt Rating and Power Consumption				Spare Coil Part Number			
	DC Watts	AC			General Purpose		Explosionproof	
		Watts	VA Holding	VA Inrush	AC	DC	AC	DC
F	-	20.1	43	240	272610	-	272614	-
H	36.2	28	60	330	222345	222184	222345	222184
H	-	16.1	35	180	272810	-	272814	-
H	-	28.2	50	385	224195	-	224195	-

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

Note: 125 and 250 volts DC are battery voltages applied in power plants. Special AC and DC constructions are available to pilot power plant control valves. Consult your local ASCO sales office for details.

Solenoid Enclosures

Standard: Red-Hat II - Watertight, Types 1, 2, 3, 3S, 4, and 4X; Red-Hat - Type 1.
Optional: Red-Hat II - Explosionproof and Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9; Red-Hat - Explosionproof and Watertight, Types 3, 4, 4X, 7, and 9. See footnote on next page.
(To order, add prefix "EF" to catalog number.)
See *Optional Features Section* for other available options.



Nominal Ambient Temperature Ranges:

Class F Coils AC: 32°F to 125°F (0°C to 52°C)

Class H Coils AC: 32°F to 140°F (0°C to 59°C)

Class H Coils DC: 32°F to 77°F (0°C to 25°C)
(104°F/40°C occasionally)

Refer to *Engineering Section* for details.

Approvals:

CSA certified. Meets applicable CE directives.

Refer to *Engineering Section* for details.

Specifications (English units)

Pipe Size (ins.)	Orifice Size (ins.)	Cv Flow Factor	Operating Pressure Differential (psi)				Max. Fluid Temp. °F		Brass Body		Stainless Steel Body		Watt Rating/ Class of Coil Insulation	
			Air-Inert Gas, Water, Lt. Oil						① Add Suffix "F" for NC, "G" for NO, "U" for Univ.					
			Max. AC		Max. DC		AC	DC	Catalog Number	Constr. Ref. No.	Catalog Number	Constr. Ref. No.	AC	DC
			NC/NO	Univ.	NC/NO	Univ.								
METAL SEATS AND DISCS														
1/8	1/8	.13	-	-	250	125	-	180	8300D55	1	-	-	-	36.2/H
1/8	1/8	.13	550	300	-	-	200	-	8300G55	1	-	-	20.1/F	-
1/8	3/16	.35	-	-	125	60	-	180	8300D3	1	-	-	-	36.2/H
1/8	3/16	.35	250	150	-	-	200	-	8300G3	1	-	-	20.1/F	-
1/4	3/16	.35	-	-	125	60	-	180	8300D58	1	-	-	-	36.2/H
1/4	3/16	.35	250	150	-	-	200	-	8300G58	1	-	-	20.1/F	-
1/4	1/4	.45	-	-	75	35	-	180	8300A81	1	-	-	-	36.2/H
1/4	1/4	.45	190	90	-	-	200	-	8300G81	1	-	-	20.1/F	-
1/4	1/4	.45	250	120	-	-	200	-	8300D61 ②	1	-	-	28/H	-
3/8	1/4	.45	-	-	50	25	-	180	-	-	8300B410	2	-	36.2/H
3/8	1/4	.45	150	75	-	-	200	-	-	-	8300G410	2	20.1/F	-
3/8	1/4	.45	-	-	75	35	-	180	8300A82	1	-	-	-	36.2/H
3/8	1/4	.45	190	90	-	-	200	-	8300G82	1	-	-	20.1/F	-
3/8	1/4	.45	250	120	-	-	200	-	8300D9 ②	1	-	-	28/H	-
3/8	1/4	.45	175	85	-	-	200	-	-	-	8300B411 ②	2	28/H	-
3/8	5/16	.75	-	-	40	20	-	180	8300D64	2	8300B412	2	-	36.2/H
3/8	5/16	.75	120	60	-	-	200	-	8300G64	2	8300G412	2	20.1/F	-
3/8	3/8	1.00	-	-	30	15	-	180	8300D72	2	8300B413	2	-	36.2/H
3/8	3/8	1.00	75	35	-	-	200	-	8300G72	2	8300G413	2	20.1/F	-
1/2	5/16	.75	-	-	40	20	-	180	8300D68	2	8300B403	3	-	36.2/H
1/2	5/16	.75	120	60	-	-	200	-	8300G68	2	8300G403	3	20.1/F	-
1/2	3/8	1.00	-	-	30	15	-	180	8300D76	2	8300B404	3	-	36.2/H
1/2	3/8	1.00	75	35	-	-	200	-	8300G76	2	8300G404	3	20.1/F	-
NBR SEATS AND BRASS DISCS														
1/4	3/16	.25	-	-	125	60	-	180	8300D58R	1	-	-	-	36.2/H
1/4	3/16	.25	250	150	-	-	180	-	8300G58R	1	-	-	20.1/F	-
1/4	1/4	.39	-	-	75	35	-	180	8300A81R	1	-	-	-	36.2/H
1/4	1/4	.39	150	75	-	-	180	-	8300G81R	1	-	-	20.1/F	-
3/8	1/4	.39	-	-	75	35	-	180	8300A82R	1	-	-	-	36.2/H
3/8	1/4	.39	150	75	-	-	180	-	8300G82R	1	-	-	20.1/F	-
3/8	5/16	.53	-	-	40	20	-	180	8300D64R	2	-	-	-	36.2/H
3/8	5/16	.53	120	60	-	-	180	-	8300G64R	2	-	-	20.1/F	-
1/2	5/16	.53	-	-	40	20	-	180	8300D68R	2	-	-	-	36.2/H
1/2	5/16	.53	120	60	-	-	180	-	8300G68R	2	-	-	20.1/F	-
PHOSPHOR BRONZE SEATS - STEAM SERVICE ONLY														
1/4	1/4	.45	100	50	-	-	344	-	8315G2	1	-	-	16.1/H	-
3/8	1/4	.45	100	50	-	-	344	-	8315G3	1	-	-	16.1/H	-
3/8	5/16	.75	100	50	-	-	344	-	831534	4	-	-	28.2/H	-
1/2	5/16	.75	100	50	-	-	344	-	831535	4	-	-	28.2/H	-

Notes: ① NC = Normally Closed: Exhaust pressure when de-energized. NO = Normally Open: Applies pressure when de-energized. Univ. = Universal: Pressure at any port.
② "EF" Prefix variations are suitable for enclosures Types 3, 4, 7 (C&D), and 9 (E) only and have a temperature range code T3A.
Refer to Engineering Section for details.

Specifications (Metric units)

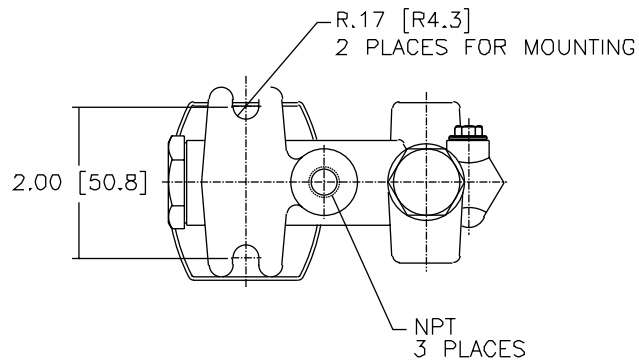
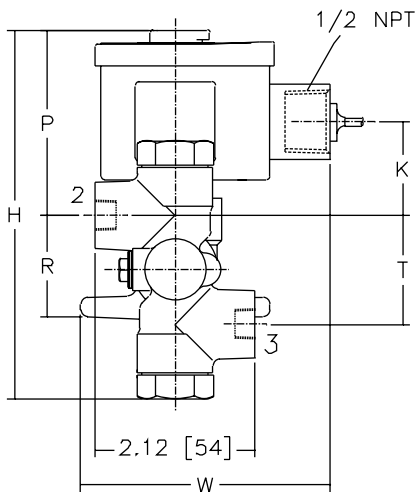
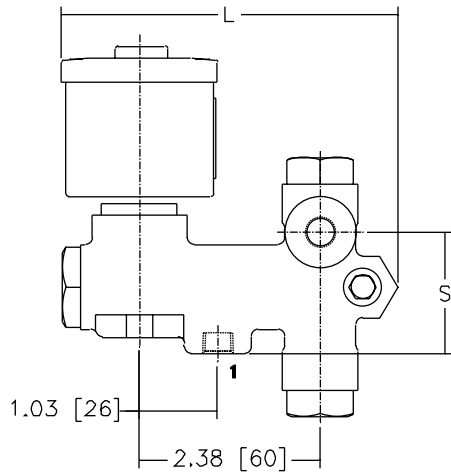
Pipe Size (ins.)	Orifice Size (mm)	Kv Flow Factor (m3/h)	Operating Pressure Differential (bar)				Max. Fluid Temp. °C		Brass Body		Stainless Steel Body		Watt Rating/ Class of Coil Insulation	
			Air-Inert Gas, Water, Lt. Oil						① Add Suffix "F" for NC, "G" for NO, "U" for Univ.					
			Max. AC		Max. DC				Catalog Number	Constr. Ref. No.	Catalog Number	Constr. Ref. No.		
			NC/NO	Univ.	NC/NO	Univ.	AC	DC						
METAL SEATS AND DISCS														
1/8	3	.11	-	-	17	9	-	81	8300D55	1	-	-	-	36.2/H
1/8	3	.11	38	21	-	-	92	-	8300G55	1	-	-	20.1/F	-
1/8	5	.30	-	-	9	4	-	81	8300D3	1	-	-	-	36.2/H
1/8	5	.30	17	10	-	-	92	-	8300G3	1	-	-	20.1/F	-
1/4	5	.30	-	-	9	4	-	81	8300D58	1	-	-	-	36.2/H
1/4	5	.30	17	10	-	-	92	-	8300G58	1	-	-	20.1/F	-
1/4	6	.39	-	-	5	2	-	81	8300A81	1	-	-	-	36.2/H
1/4	6	.39	13	6	-	-	92	-	8300G81	1	-	-	20.1/F	-
1/4	6	.39	17	8	-	-	92	-	8300D61 ②	1	-	-	28/H	-
3/8	6	.39	-	-	3	2	-	81	-	-	8300B410	2	-	36.2/H
3/8	6	.39	10	5	-	-	92	-	-	-	8300G410	2	20.1/F	-
3/8	6	.39	-	-	5	2	-	81	8300A82	1	-	-	-	36.2/H
3/8	6	.39	13	6	-	-	92	-	8300G82	1	-	-	20.1/F	-
3/8	6	.39	17	8	-	-	92	-	8300D9 ②	1	-	-	28/H	-
3/8	6	.39	12	6	-	-	92	-	-	-	8300B411 ②	2	28/H	-
3/8	8	.64	-	-	3	1	-	81	8300D64	2	8300B412	2	-	36.2/H
3/8	8	.64	8	4	-	-	92	-	8300G64	2	8300G412	2	20.1/F	-
3/8	10	.86	-	-	2	1	-	81	8300D72	2	8300B413	2	-	36.2/H
3/8	10	.86	5	2	-	-	92	-	8300G72	2	8300G413	2	20.1/F	-
1/2	8	.64	-	-	3	1	-	81	8300D68	2	8300B403	3	-	36.2/H
1/2	8	.64	8	4	-	-	92	-	8300G68	2	8300G403	3	20.1/F	-
1/2	10	.86	-	-	2	1	-	81	8300D76	2	8300B404	3	-	36.2/H
1/2	10	.86	5	2	-	-	92	-	8300G76	2	8300G404	3	20.1/F	-
NBR SEATS AND BRASS DISCS														
1/4	5	.21	-	-	9	4	-	81	8300D58R	1	-	-	-	36.2/H
1/4	5	.21	17	10	-	-	81	-	8300G58R	1	-	-	20.1/F	-
1/4	6	.33	-	-	5	2	-	81	8300A81R	1	-	-	-	36.2/H
1/4	6	.33	10	5	-	-	81	-	8300G81R	1	-	-	20.1/F	-
3/8	6	.33	-	-	5	2	-	81	8300A82R	1	-	-	-	36.2/H
3/8	6	.33	10	5	-	-	81	-	8300G82R	1	-	-	20.1/F	-
3/8	8	.45	-	-	3	1	-	81	8300D64R	2	-	-	-	36.2/H
3/8	8	.45	8	4	-	-	81	-	8300G64R	2	-	-	20.1/F	-
1/2	8	.45	-	-	3	1	-	81	8300D68R	2	-	-	-	36.2/H
1/2	8	.45	8	4	-	-	81	-	8300G68R	2	-	-	20.1/F	-
PHOSPHOR BRONZE SEATS - STEAM SERVICE ONLY														
1/4	.5	.39	7	3	-	-	173	-	8315G2	1	-	-	16.1/H	-
3/8	.5	.39	7	3	-	-	173	-	8315G3	1	-	-	16.1/H	-
3/8	.6	.64	7	3	-	-	173	-	831534	4	-	-	28.2/H	-
1/2	.6	.64	7	3	-	-	173	-	831535	4	-	-	28.2/H	-
Notes: ① NC = Normally Closed: Exhaust pressure when de-energized. NO = Normally Open: Applies pressure when de-energized. Univ. = Universal: Pressure at any port. ② "EF" Prefix variations are suitable for enclosures Types 3, 4, 7 (C&D), and 9 (E) only and have a temperature range code T3A. Refer to Engineering Section for details.														

Dimensions: inches (mm)

Constr. Ref. No.		H	K	L	P	R	S	W
1	ins.	4.89	1.44	4.44	2.46	1.34	1.60	3.30
	mm	124	37	113	62	34	40	84
2	ins.	5.91	1.88	4.44	2.37	1.66	2.00	3.30
	mm	150	48	113	60	42	51	84
3	ins.	5.90	1.88	4.62	2.37	1.66	2.00	3.55
	mm	150	48	117	60	42	51	90
4	ins.	4.89	1.44	4.44	2.46	1.34	1.60	3.30
	mm	124	37	113	62	34	40	84

IMPORTANT: Valves must be mounted vertical and upright.

Constr. Refs. 1, 2, 3, 4



Flow Diagrams

