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4

Functional Safety Solutions | for the Process Control Industry

3-way pilot valves

Manual reset & redundant coil pilot valves

Redundant control pilot valve systems



Industrial Automation

FUNCTIONAL SAFETY SOLUTIONS

ASCO solenoid pilot valves are an integral part of the final control element for any safety instrumented system (SIS) or critical application. ASCO offers 3 solenoid pilot valve solutions that are widely used in the process control industry; individual 3-way pilot valves, manual reset valves, and redundant pilot valve systems. Each of these solutions are proven in use as a pilot valve in critical applications and in safety instrumented systems. Certified pilot valves per IEC 61508 Parts 1 and 2 are rated SIL 3 capable for domestic and international markets (ATEX). ASCO understands the need to keep your process running, but also understands that the process must shut down when commanded.



3-Way Pilot Valves O-

ASCO 3-way solenoids, 8314, 8316, 8320, 8327, 8551 and 8553 are the most widely used solenoid pilot valves in the world. For your spring return actuator applications, these valves are proven in use and have undergone 3rd party evaluation by Exida per IEC 61508 Parts 1 & 2. All 6 series are certified SIL 3 capable. Individual pilot valves are most commonly used in 1-out-of-1 and 1-out-of-2 voting architectures but can be easily piped into a 2-out-of-2 configuration. ASCO pilot valves are used as the primary device for process valve actuation as well as the shutdown valve when used with digital valve controllers for on-off and control valve applications.



SIL 3 Capable, Certified by Exida

Manual Reset & Redundant Coil Pilot Valves ()

ASCO Manual Reset Pilot Valves are a process industry standard, and are certified Sil 3 capable for harsh plant environments where reliability is a must, ASCO has the products to keep your process going. Lever operated manual reset valves are designed with corrosion resistant materials and industrial strength components. When you need to manually engage the final control element of your process system, ASCO has the proven solutions for your applications. Redundant coil pilot valves are also available for your high availability applications.



SIL 3 Capable, Certified by Exida (Tamper Proof and High Shock Manual Reset Valves)

Redundant Control Pilot Valve Systems

The ASCO RCS is a redundant pilot valve system that acts as a single 3-way valve. The added features of this system above an individual valve include the ability to perform automatic online testing of the redundant solenoid valves, automatic partial stroke testing of the process valve, and online maintenance capabilities. This product is built for high reliability applications and functional safety. The redundant solenoids can operate in 1-out-of-1 Hot Standby mode or 2-out-of-2 Diagnostic mode. Both modes of operation are certified per IEC 61508 Parts 1 and 2 and are SIL 3 capable. To design an RCS product, please visit www.ascovalve.com/RCSConfigurator for the RCS online configurator.



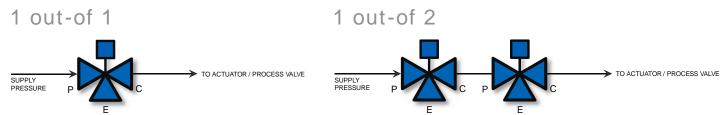




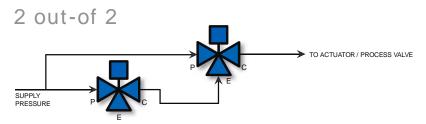
Operational Specifications

3-Way Pilot Valves

ASCO 3-way pilot valves certified to IEC 61508 are typically piped in the following two configurations:



The 1 out-of 1 and 1 out-of 2 configurations are the most common pilot valve configurations used.



The 2 out-of 2 configurations are commonly used for high availability applications. In the case that one solenoid valve were to spuriously trip, the second solenoid still maintains the position of the actuator/process valve at its operating state. Both solenoids must close in order to shift the actuator/process valve to its non-operating state.

Redundant Coil Pilot Valves

Redundant coil pilot valves are used for high availability applications. There are two coils (solenoid operators) that are redundantly keeping the main solenoid valve in the energized position, which in turn keeps the actuator/process valve in its operating position. Both coils must be de-energized in order to return the actuator/process valve to its non-operating position.

Tamper-Proof Manual Reset Valves

Electrically Tripped \(\subseteq \) With the pilot valve solenoid de-energized, the handle is raised manually and latches the operator in the \(\sup \subseteq \) (latched) position. Upon energizing the pilot valve solenoid, the latch is tripped returning the operator to the \(\subseteq \) down \(\sup \) (unlatched) position. If auxiliary air supply to the pilot valve is lost, the main valve will shift position.

No Voltage Release \square With the pilot valve solenoid energized, the handle is raised manually and latches the operator in the \square up \square (latched) position. Upon loss of voltage, the latch is tripped returning the operator to the \square down \square (unlatched) position. If the auxiliary air supply to the pilot valve is lost, the main valve will shift position.

Moving the handle while the valve is in its tripped state will not cause the actuator/process valve to shift. (Applies to both tamper-proof manual reset valves)

High Shock Manual Reset Valves

Electrically Tripped \(\text{With the pilot valve solenoid de-energized, the handle is raised manually and latches the operator in the \(\text{Lup} \) (latched) position. Upon energizing the pilot valve solenoid, the latch is tripped returning the operator to the \(\text{Ldown} \) (unlatched) position.

No Voltage Release \square With the pilot valve solenoid energized, the handle is raised manually and latches the operator in the \square up \square (latched) position. Upon loss of voltage, the latch is tripped returning the operator to the \square down \square (unlatched) position.

Once tripped, the lever may be cycled causing the valve discs to open and close.

(Applies to both high shock manual reset valves)

Important

These solenoid valves are intended for use on clean dry air or inert gas, filtered to 40 micrometres or better. The dew point of the media should be at least 10 (18 F) below the minimum temperature to which any portion of the clean air/inert gas system could be exposed to prevent freezing. If lubricated air is used, the lubricants must be compatible with Nitrile elastomers. Diester oils may cause operational problems. Instrument air in compliance with ANSI/ISA Standard 7.0.01-1996 exceeds the above requirements and is, therefore, an acceptable media for these valves.

3-Way Low Power Pilot Valves (0.55 W)*

Pipe	Orifice	Cv F	Flow ctor	Differe	ng Pressure ntial (psi) nert Gas	Aml	d and bient p. □F	Brass Body	/	Stainless Stee	el Body
Size	Size	Pressure to	Cylinder to			Min. Max.			Const.		Const.
(in)	(in)	Cylinder	Exhaust	Min.	Max.	Min.	Max.	Catalog Number	Ref.	Catalog Number	Ref.
UNIVERSAL	_OPERATION	(Pressure at any port) with 0.06 0.06		NBR Disc □	SIL 3 Capable	, Certified by	y Exida □□				
1/4	1/20	0.06	0.06	0	130	-40	149	8314H300	1	8314H301 □	1
NORMALLY	ORMALLY CLOSED (Closed when de-energized)		-energized) w	th NBR Disc	or FPM, as Lis	ted 🗆 SIL 3	Capable, Cer	rtified by Exida □			
1/4	5/16	1.5	1.5		130	-20	149	8316H301 □	2	EV8316H381V 🗆 🗆	2A
3/8	5/16	1.8	1.8		130	-20	149	8316H302 □	2	EV8316H382V 🗆 🗆	2A
3/8	5/8	4	4		130	-20	149	8316H303 □	3	-	ı
1/2	5/8	4	4		130	-20	149	8316H304 □	3	EV8316H384V 🗆 🗆	3A
3/4	11/16	5.5	5.5	10	130	-20	149	8316J374 🗆	4	-	-
1	1	13	13	10	130	-4	149	8316H334 □ □	5	-	-

- ☐ IMPORTANT: Internal Mode Minimum Operating Pressure Differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. ASOO flow controls and other similar components must be installed in the cylinder lines only. See graph on page 6 for main line pressure vs. pilot line pressure.
- □ Diaphragm and main disc FKM only (pilot is low-temperature NBR); Ambient temperature range is 32 Ft to 149 F
- ☐ Zero minimum when valve selection gasket is in external position and proper auxiliary air pressure is applied. Minimum 15 psi Operating Pressure Differential when selection gasket is in the internal position.
- ☐ Can be used for *dry* natural gas service with the 日 or EV prefix.
- ☐ Safety manual and FMEDA (Failure Modes Effects and Diagnostic Analysis) report available.
- Solenoid only approvals with EF or EV prefix, no approvals with general purpose coil (no prefix).
- SIL 3 Capable, Certified by Exida, only valid when used as Normally Closed.
- * IMPORTANT: Supervisory and leakage current above the drop out current of 0.89 mA for 24V DC will cause improper operation. Consult your local ASCO sales office for additional assistance.

3-Way Low Power Pilot Valves (1.4 W)*

Pipe	Orifice	Ov F	Flow ctor	Differen	g Pressure Itial (psi) ert Gas	Amb	d and bient p. □F	Brass Body	/	Stainless Steel	Body
Size (in)	Size (in)	Pressure to Cylinder to Exhaust TON (Pressure at any port) wi		Min.	Max.	Min.	Max.	Catalog Number	Const. Ref.	Catalog Number	Const. Ref.
UNIVERSAL	OPERATION	N (Pressure at	any port) with	NBR Disc □	SIL 3 Capable	e, Certified by E	xida □ □				
1/4	1/16	.08	.08	0	150	-40	140	8314G300	6	8314G301 🗆	7
NORMALLY	CLOSED (C	losed when de	energized) w	ith NBR Disc	or FPM, as L	isted □SIL 3 Ca	apable, Certified	d by Exida □			
1/4	5/16	1.5	1.5		150	-20	149	8316G301 🗆	8	EV8316G381V 🗆 🗆	8
3/8	5/16	1.8	1.8		150	-20	149	8316G302 🗆	8	EV8316G382V 🗆 🗆	8
3/8	5/8	4	4		150	-20	149	8316G303 🗆	9	-	-
1/2	5/8	4	4		150	-20	149	8316G304 🗆	9	EV8316G384V 🗆 🗆	9
3/4	11/16	5.5	5.5	10	150	-20	149	8316H374 □	4	-	-
1	1	13	13	10	150	-4	140	8316G334 🗆	5	-	-

- ☐ IMPCRTANT: Internal Mode Minimum Operating Pressure Differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. ASOO flow controls and other similar components must be installed in the cylinder lines only. See graph on page 6 for main line pressure vs. pilot line pressure.
- □ Diaphragm and main disc FKM only (pilot is low-temperature NBR); Ambient temperature range is 32 F to 140 F.
- Zero minimum when valve selection gasket is in external position and proper auxiliary air pressure is applied. Minimum 15 psi Operating Pressure Differential when selection gasket is in the internal position.
- $\ \square$ Can be used for dry natural gas service with the $\ \square$ or $\ \square$ prefix.
- ☐ Safety manual and FMEDA (Failure Modes Effects and Diagnostic Analysis) report available.
- SIL 3 Capable, Certified by Exida, only valid when used as Normally Closed.
- *IMPORTANT: Supervisory and leakage current above the drop out current of 7mA for 24V DC will cause improper operation. Consult your local ASCO sales office for additional assistance.

3-Way Pilot Valves (8314 Series)

		Cv	O _V			Operating Different				Min	Ma Flu	ax. uid	Ma Amb		Brass B	ody	Stainless Ste	el Body	1	Rating/ of Coil
Pipe	Orifice	Flow	Flow		Max. A	С		Max. D	С	Min. Fluid and	Temp			p. IF					l l	lation
Size	Size	Factor	Factor	Air-Inert		Lt. Oil @	Air-Inert		Lt. Oil @	Ambient					Catalog	Const.	Catalog	Const.		
(in)	(in)	2-1	1-3	Gas	Water	45 SSU	Gas	Water	45 SSU	Temp. □F	AC	DC	AC	DC	Number	Ref.	Number	Ref.	AC	DC
NORMA	ALLY CLC	OSED (a	osed whe	en de-ene	rgized)	□ SIL3 Cap	able, Cert	tified by	Exida 🗆											
1/8	3/64	0.05	0.06	300	300	300	250	250	250	-13	200	200	131	131	8314H031	10	8314H037	10	10.1/F	11.6/F
1/8	3/32	0.15	0.20	205	205	190	150	120	90	-13	200	200	131	131	8314H032	10	8314H038	10	10.1/F	11.6/F
1/8	1/8	0.25	0.20	145	145	100	90	90	70	-13	200	200	131	131	8314H033	10	8314H039	10	10.1/F	11.6/F
1/4	3/64	0.05	0.06	300	300	300	250	250	250	-13	200	200	131	131	8314H034	11	8314H068	11	10.1/F	11.6/F
1/4	3/32	0.15	0.20	205	205	190	150	120	90	-13	200	200	131	131	8314H035	11	8314H121	11	10.1/F	11.6/F
1/4	1/8	0.25	0.20	145	145	100	90	90	70	-13	200	200	131	131	8314H036	11	8314H126	11	10.1/F	11.6/F
1/4	5/32	0.50	0.20	75	75	75	50	50	50	-13	200	200	131	131	8314H130	11	8314H230	11	10.1/F	11.6/F
1/4	7/32	0.70	0.20	40	40	40	25	25	25	-13	200	200	131	131	8314H131	11	8314H231	11	10.1/F	11.6/F
1/4	9/32	0.85	0.20	25	25	25	15	15	15	-13	200	200	131	131	8314H132	11	8314H232	11	10.1/F	11.6/F

- ☐ Safety manual and FMEDA (Failure Modes Effects and Diagnostic Analysis) report available.
- □ Max. Huid Temp 180 Ffor light oil @45 SSU

3-Way Pilot Valves (8320 Series)

						Pressure tial (psi)				Ma Flu	ax. uid	Ma Amb	ax. pient	Brass Bo	dy	Stainless Stee	el Body	Watt F	
				Max. AC			Max. DC		Min.	Tem	р. I F	Tem	р. 👍					Insula	tion 🗆
Pipe Size (in)	Orifice Size (in)	Cv Flow Factor	Air-Inert Gas	Water	Lt. Oil @ 300 SSU	Air-Inert Gas	Water	Lt. Oil @ 300 SSU	Fluid and Ambient Temp. ©F	AC	DC	AC	DC	Catal og Number	Const. Ref.	Catalog Number	Const. Ref.	AC	DC
NORMA	NORMALLY CLOSED (Closed when de-energized) $\ \square$ SIL 3 Capable, Certified by							ied by Exi	da □										
1/8	3/64	0.06	200	200	200	200	200	200	32	180	120	125	104	8320G132	12	8320G142 🗆	12	6.1F	10.6/F
1/8	1/16	0.09	150	125	125	125	125	125	32	180	120	125	104	8230G013	12	8320G045 🗆	12	6.1F	10.6/F
1/8	1/16	0.09	210	225	225	160	160	160	32	200	150	125	104	8320G215	13	8320G224 🗆	13	17.1/F	11.6/F
1/8	3/32	0.12	100	100	100	100	100	100	32	180	120	125	104	8320G015	12	8320G047 🗆	12	6.1F	10.6/F
1/8	3/32	0.12	150	150	150	115	115	115	32	200	150	125	104	8320G216	13	8320G225 🗆	13	10.1/F	11.6/F
1/8	1/8	0.21	40	40	40	40	40	40	32	180	120	125	104	8320G017	12	8320G049 🗆	12	6.1F	10.6/F
1/8	1/8	0.21	85	85	85	60	60	60	32	200	150	125	104	8320G217	13	8320G226 □	13	10.1/F	11.6/F
1/4	1/16	0.09	210	225	225	160	160	160	32	200	150	125	104	8320G182	14	8320G231 🗆	15	17.1/F	11.6/F
1/4	3/32	0.12	150	150	150	115	115	115	32	200	150	125	104	8320G184	14	8320G202 🗆 🗆	15	10.1/F	11.6/F
1/4	1/8	0.25	85	85	85	60	60	60	32	200	150	125	104	8320G186	14	8320G203 🗆 🗆	15	10.1/F	11.6/F
1/4	11/64	0.35	45	45	45	25	25	25	32	200	150	125	104	8320G188	14	-	-	10.1/F	11.6/F

- On 50 hertz service, the watt rating for the 6.1/F solenoid is 8.1 watts; the watt rating for the 9.1/F solenoid is 11.1 watts.
- Can be used for dry natural gas service with the EF or EV prefix.
- Constructions standard rated -40. Frambient temperature. EFX prefix and TPL # not required
- Safety manual and FMEDA (Failure Modes Effects and Diagnostic Analysis) report available.

3-Way Pilot Valves (8327 Series)

Pipe	Orifice	Cv F	low		perating Pres Differential (p Max. DC	psi)	Min. Fluid and	Max. Fluid	Max Ambi ent	Brass Boo	lv	316 Stainless Ste	el Body	Watt F Class	of Coil
Size	Size	Ports	Ports	Air-Inert	r-Inert Lt. OI @ 45 A			Temp.	Temp.	2,400 200	Const.	010 0.0.111000 0.00	Const.	modi	atron
(in)	(in)	1-2	2-3	Gas	Gas Water SSU Te				□F	Catalog Number	Ref.	Catalog Number	Ref.	AC	DC
UNIVERS	UNIVERSAL OPERATION (Pressure at any port) ☐ SIL 3 Capable, Certified by														
1/4	1/4	0.49	0.56	150	150	150	-4	176	131	8327G041	16	-	-	12.0/F	11.6/F
1/4	1/4	0.49	0.56	150	150	150	-4	248	131	-	-	EV8327G042	16	12.0/F	11.6/F
1/4	1/4	0.49	0.56	150	-	-	-40	131	131	8327G051	16	-	-	12.0/F	11.6/F
1/4	1/4	0.49	0.56	150	-	-	-40	131	131	-	-	EV8327Q052	16	12.0/F	11.6/F
□ Safety	manual ar	nd FMEDA (Failure Mo	des Effects a	and Diagnostic	c Analysis) repo	ort available	e. SIL 3 Ca	apable, Cer	tified by Exida, only	valid when	used as Normally Od	osed.		

3-Way Pilot Valves (8551/8553 Series)

Pipe	Orifice		Differe	g Pressure ntial (psi) -Inert	A	Fluid and mbient Temp [F	Aluminum Bo	dy	0	ng/ Class of oil lation
Size	Size	Cv Flow							Const.		
(in)	(in)	Factor	Min.	Max.	Min.	Max. AC	Max. DC	Catalog Number	Ref.	AC	DC
NORMALLY (CLOSED OPE	EN FRAME DIN	OOIL □ SIL 3 Ca	pable, Certified by	Exida □						
1/4	1/4	0.86	30	150	5	140	140	SC8551A005MS	17	2.5/F	3.0/F
1/2	1/2	3.7	30 150		-15	140	140	SC8553A005MS	17	5.0/F	6.9/F
NORMALLY C	CLOSED WA	TERTIGHT ENGL	OSURE SIL 3	Capable, Certified	by Exida □						
1/4	1/4	0.86	30	150	5	140	77	WT8551A005MS	17	6.3/F	6.9/F
1/2	1/2	3.7	30	150	-15	140	77	WT8553A005MS	17	6.3/F	6.9/F
NORMALLY C	CLOSED EXP	LOSIONPROOF	ENCLOSURE 🗆	SIL 3 Capable, Cer	tified by Exida						
1/4	1/4	0.86	30	150	5	104	77	EF8551A005MS	17	6.3/F	6.9/F
1/2	1/2	3.7	30	150	-15	104	77	EF8553A005MS	17	6.3/F	6.9/F
□ Safety man	nual and FMED	A (Failure Mode	s Effects and Dia	gnostic Analysis) re	eport available.						

3-Way Pilot Valves (8551/8553 Series)

				erating Pres fferential (psi)								316L			Rating/ of Coil
Pipe	Orifice			Air-Inert		FluidT	emp. 🖫	Amb	oient Tem	p. IF	Aluminum Body	Brass Body	Stainless Steel Body		Insul	ation
Size	Size	Cv Flow				Max.	Max.		Max.	Max.				Const.		
(in)	(in)	Factor	Min.	Max. AC	Max. DC	AC	DC	Min.	AC	DC		er	Ref.	AC	DC	
NORMA	(in) (in) Factor Min. Max. AC Max. DC AC DC Min. AC DC Catalog Number NORMALLY CLOSED □SIL 3 Capable, Certified by Exida □															
1/4	1/4	0.86	30	145	120	140	120	5	125	104	8551G405	-	-	18	10.1/F	11.6/F
1/4	1/4	0.86	30	145	120	140	120	-40	125	104	-	EF8551G407	-	18	10.1/F	11.6/F
1/4	1/4	0.86	30	145	120	140	120	-40	125	104	-	-	EV8551G413	18	10.1/F	11.6/F
1/2	1/2	3.7	30	145	120	140	120	5	125	104	8553G405	-	-	18	10.1/F	11.6/F
1/2	1/2	3.7	30	145	120	140	120	-40	125	104	-	-	EV8553G413□	18	10.1/F	11.6/F

- □ Safety manual and FMEDA (Failure Modes Effects and Diagnostic Analysis) report available.
- ☐ Stainless steel construction supplied standard with EV solenoid.
- ☐ Brass construction supplied standard with 日 solenoid.

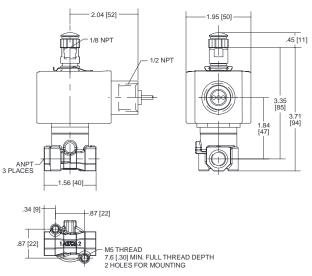
Dimensions: inches [mm]

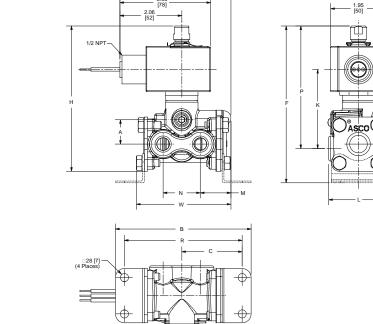
Const. Ref.		А	В	С	F	Н	K	L	M	N	Р	R	S	W
2	in	0.84	4.68	2.08	5.41	5.01	2.73	2.06	1.06	1.28	4.23	4.06	3.83	3.26
	mm	21	119	53	137	127	69	52	27	33	107	103	97	83
3	in	1.19	4.88	2.18	5.90	5.40	2.98	2.72	1.24	1.32	4.48	4.26	4.03	3.59
3	mm	30	124	56	150	167	76	69	31	34	114	108	102	91
2A	in	1.00	4.71	2.11	5.57	5.17	2.73	2.06	1.08	1.28	4.24	4.09	3.86	3.28
ZA	mm	25	120	54	141	131	69	52	27	33	108	104	98	83
3A	in	1.11	4.88	2.18	5.98	5.48	2.84	2.72	1.24	1.37	4.34	4.26	4.04	3.59
3A	mm	28	124	55	152	139	72	69	31	35	110	108	102	91

Main Line Pressure vs. Pilot Line Pressure 120 106 90 97 75 88 45 30 0 15 30 45 60 75 90 105 120 135 150 MAINLINE PRESSURE (ps)

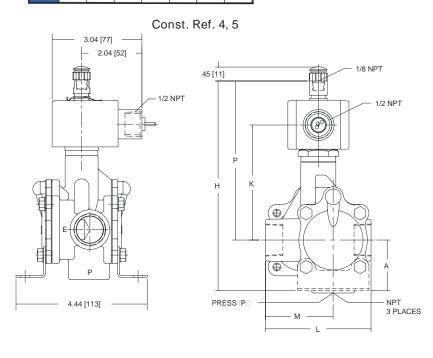
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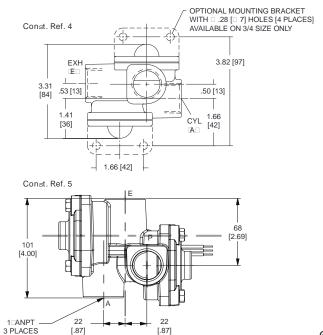
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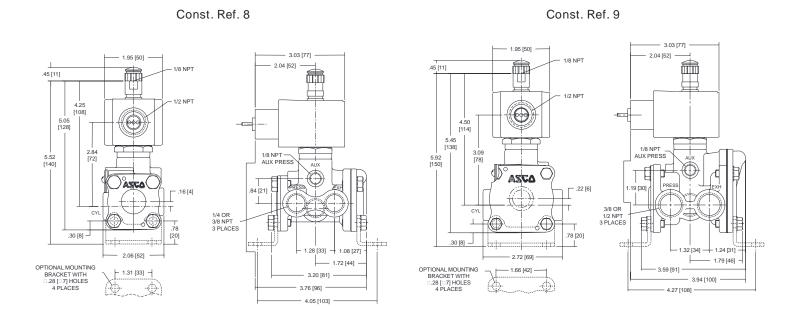


Const. Ref. 1.61 6.78 3.68 3.38 2.16 5.09 in mm 41 172 93 86 129 5.34 7.40 3.93 4.44 2.81 mm 188 100 113 71 136





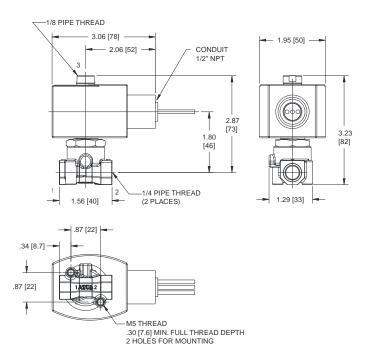
Const. Ref. 6, 7 1.95 [50] - 1/8 NPT .45 [11] 1/2 NPT 3.78 [96] 3.36 [85] 1.95 [50] . 1/4 NPT 2 PLACES □1.25 [□32] ST ST 1.62 [141] 2 MOUNTING HOLES .31 [8] DEEP FOR .164 [4.2] THREAD CUTTING SCREW .59 [15] □.266 [□6.8] .266 [□6.8] .86 [22] .68 [17] .86 [22] .68 [17] R.125 [R3.2] 4 PLACES R.125 [R3.2] -88 [22] -.88 [22] 4 PLACES MOUNTING HOLES IN BRASS BODY CONST. REF. 7 CONST. REF. 6 MTG BRACKET FOR ST ST. MTG BRACKET FOR BRASS



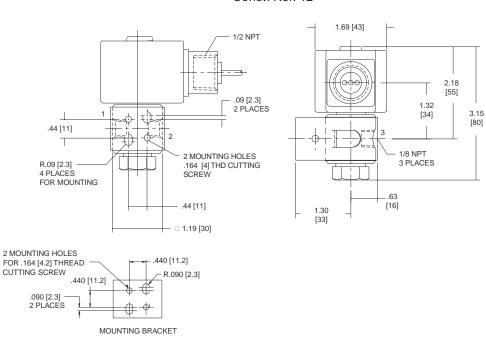
Const. Ref. 10

1/8 PIPE THREAD 3.06 [78] **-** 1.95 [50] **-**CONDUIT 1/2" NPT 2.06 [52] — 2.78 [71] 1.71 [78] –1/8 PIPE THREAD (2 PLACES) 1.19 [30] 1.19 [30] .59 [15] .30 [7.6] -.69 [18] 1 -M5 THREAD .30 [7.6] MIN.FULL THREAD DEPTH 2 HOLES FOR MOUNTING

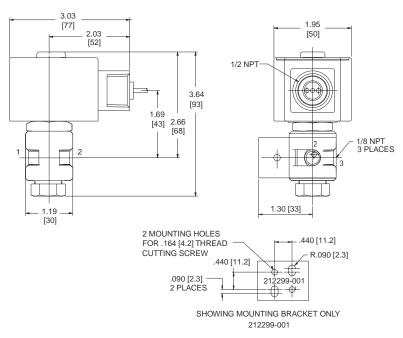
Const. Ref. 11



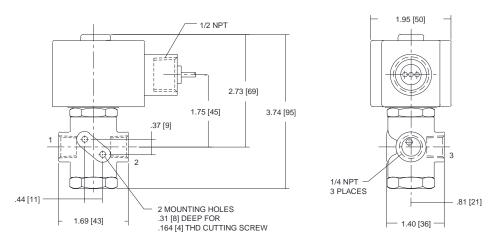
Const. Ref. 12



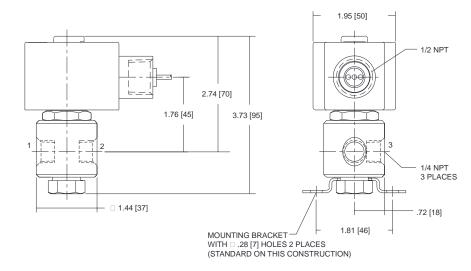
Const. Ref. 13



Const. Ref. 14



Const. Ref. 15



Flow Diagrams

Operation	De-Energized	Energized
Normally Closed Pressure at 3	1 2 3 -1	1 H 2
Normally Open Pressure at 1	1 2 3 H	1 H 2
Universal Pressure at Any Port	1 2 3 H	1 H 2

IMPORTANT: Valves may be mounted in any position.

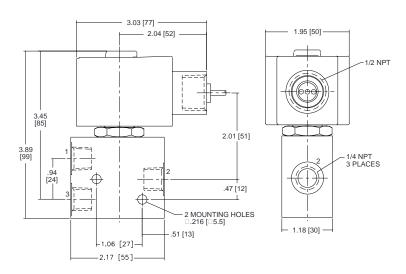
Series	8551	8553
NPT	1/4	1/2
L1	5.69 (145)	6.70 (170)
H1	1.10 (28)	1.58 (40)
W	1.77 (45)	2.85 (72)

NOTE: Valve shown with CM22 DIN terminal coil and connector. Connector sold separately.

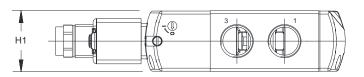
Series	8551	8553
NPT	1/4	1/2
L1 □	5.12 (132)	6.00 (153)
H2	4.38 (111)	4.77 (121)
H1	1.10 (28)	1.58 (40)
W	1.77 (45)	2.85 (72)

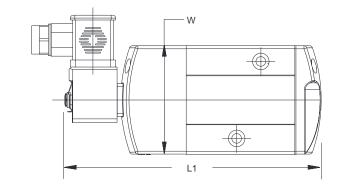
[☐] Manual override option MH adds .250" (6.4), MS option adds .468" (11.9) to each solenoid endcap.

Const. Ref. 16

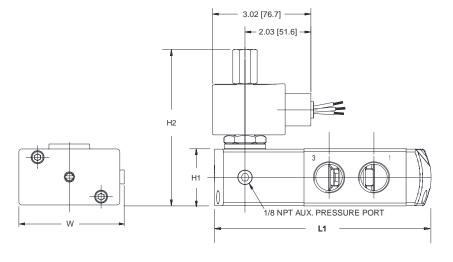


Const. Ref. 17





Const. Ref. 18



Manual Reset and Redundant Coil Pilot Valves

Pipe Size	Orifice Size	Cv Flow		erating Pres			uid p. ⊡F	Max. Ambient	Catalog	Const.			Watt Ration of Coil In per So	sulation
(in)	(in)	Factor		Pilot Max.	Main Max.	Min.	Max.	Temp. IF	Number	Ref.	Body Material	Pilot Construction	AC	DC
		oil Pilot Va	lves											
1/4	3/64	.04	-	-	150	-40	140	140	EV8323G352	19	Stainless Steel	Normally Closed	-	1.4/F
1/4	3/64	.04	-	-	150	-40	140	140	EV8323G353	19	Stainless Steel	Normally Open	-	1.4/F
1/4	3/64	.04	-	-	150	-4	200	125	EV8323G052	20	Stainless Steel	Normally Closed	10.1/F	-
1/4	3/64	.04	-	1	150	-4	200	125	EV8323G053	20	Stainless Steel	Normally Open	10.1/F	-
1/4	5/16	1.5		150	150	-4	180	125	EF8323G060	21	Brass	Normally Closed	10.1/F	-
1/4	5/16	1.5		150	150	-4	180	125	EV8323G080	21	Stainless Steel	Normally Closed	10.1/F	-
1/4	5/16	1.5		150	150	-4	180	125	EV8323G082	21	Stainless Steel	Normally Open	10.1/F	-
1/4	5/16	1.5		150	150	-4	140	140	EV8323G380	22	Stainless Steel	Normally Closed	-	1.4/F
1/4	5/16	1.5		150	150	-4	140	140	EV8323G382	22	Stainless Steel	Normally Open	-	1.4/F
1/2	5/8	4		150	150	-4	180	125	EV8323G081	23	Stainless Steel	Normally Closed	10.1/F	-
1/2	5/8	4		150	150	-4	180	125	EV8323G083	23	Stainless Steel	Normally Open	10.1/F	-
1/2	5/8	4		150	150	-4	140	140	EV8323G381	24	Stainless Steel	Normally Closed	-	1.4/F
1/2	5/8	4		150	150	-4	140	140	EV8323G383	24	Stainless Steel	Normally Open	-	1.4/F
3/2 Tam	per Proof	Manual R	teset Valves	☐ SIL 3 Ca	pable, Certifi	ed by E	xida □							
1/4	5/16	1.5	25	125	150	-4	180	125	EV8308G060	25	Stainless Steel	No Voltage Release (NVR)	10.1/F	-
1/4	5/16	1.5	25	125	150	-4	140	140	EV8308G360	25	Stainless Steel	No Voltage Release (NVR)	-	1.4/F
1/2	5/8	4	25	125	150	-4	180	125	EV8308G061	26	Stainless Steel	No Voltage Release (NVR)	10.1/F	-
1/2	5/8	4	25	125	150	-4	140	140	EV8308G361	26	Stainless Steel	No Voltage Release (NVR)	-	1.4/F
3/2 High	Shock M	lanual Res	et Valves 🗆	SIL 3 Capa	ble, Certified	by Exic	da 🗆							
3/8	1/4	0.45	25	125	125	-40	140	140	EV8308G385	27	Brass	No Voltage Release (NVR)	-	1.4/F
3/8	1/4	0.45	25	125	125	-40	140	140	EV8310G385	27	Brass	Electrically Tripped (TSO)	-	1.4/F
3/8	1/4	0.45	25	125	125	-4	200	125	EV8308G085	27	Brass	No Voltage Release (NVR)	10.1/F	-
3/8	1/4	0.45	25	125	125	-4	200	125	EV8310G085	27	Brass	Electrically Tripped (TSO)	10.1/F	-
3/8	1/4	0.45	25	125	125	-40	140	140	EV8308G386	28	Stainless Steel	No Voltage Release (NVR)	-	1.4/F
3/8	1/4	0.45	25	125	125	-40	140	140	EV8310G386	28	Stainless Steel	Electrically Tripped (TSO)	-	1.4/F
3/8	1/4	0.45	25	125	125	-4	200	125	EV8308G086	28	Stainless Steel	No Voltage Release (NVR)	10.1/F	-
3/8	1/4	0.45	25	125	125	-4	200	125	EV8310G086	28	Stainless Steel	Electrically Tripped (TSO)	10.1/F	-

[□] Zero minimum when valve selection gasket is in external position and proper auxiliary air pressure is applied.

Dimensions: inches [mm]

Const. Ref.		А
10	in	1.91
19	mm	48
20	in	1.76
	mm	45

Const. Ref. 19, 20 **TUBE CONNECTS** PORT PORT 2 WITH MARKED 2 SOLENOID AT 2.64 POSITION 3. [67] 4.78 [121] .81 [21] 2.04 [52] SOL B SOL A 1/4 ANPT CYL 1/2 NPT CONDUIT SOLENOID POSITION **CONN 2 PLACES** MARKED 3

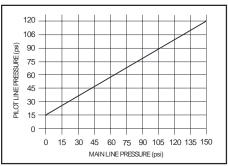
See graph on page 12 for main line pressure vs. pilot line pressure. Minimum 15 psi operating pressure differential when selection gasket is in the internal position.

[☐] Safety manual and FMEDA (Failure Modes Effects and Diagnostic Analysis) report available.

Dimensions: inches [mm]

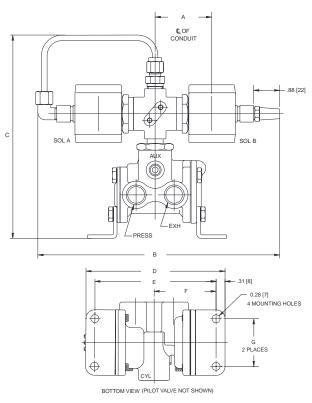
Const. Ref.		A	В	С	D	Е	F	G
21	in	1.75	8.86	6.86	4.67	4.05	1.96	1.25
۷۱	mm	44	225	174	119	103	50	32
22	in	1.91	8.23	6.86	4.67	4.05	1.96	1.25
	mm	48	209	174	119	103	50	32
23	in	1.76	8.86	7.30	4.84	4.22	2.16	1.66
	mm	45	225	185	123	107	55	42
24	in	1.91	8.23	7.30	4.84	4.22	2.16	1.66
	mm	48	209	185	123	107	55	42

Main Line Pressure vs. Pilot Line Pressure

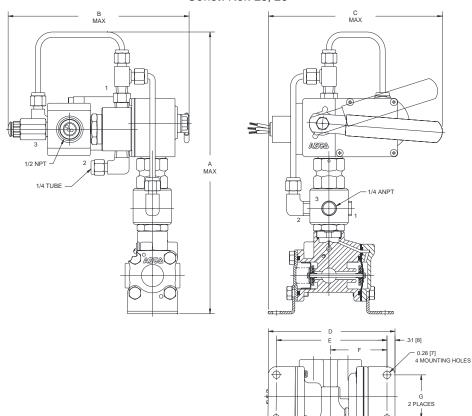


Const. Ref.		А	В	С	D	Е	F	G
25	in	11.25	6.95	6.56	4.67	4.05	1.96	1.25
	mm	286	177	167	119	103	50	32
26	in	11.50	6.38	6.62	4.82	4.20	2.08	1.66
	mm	292	162	168	123	107	53	42

Const. Ref. 21, 22, 23, 24



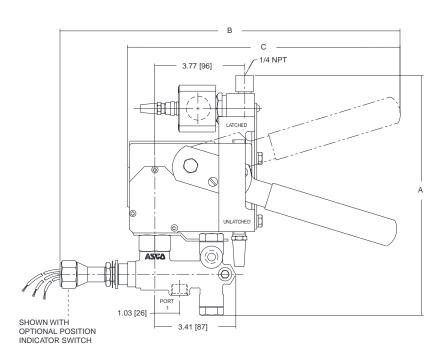


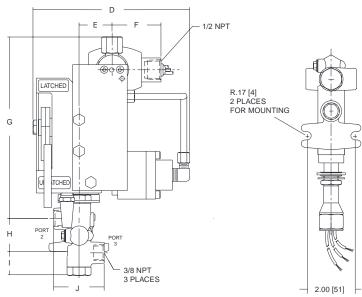


ROTTOM VIEW (PILOT VALVE NOT SHOWN)

Const. Ref.		А	В	С	D	Е	F	G	Н	1	J	Body Material
27	in	10.04	14.24	11.43	6.56	1.38	2.05	7.59	1.44	1.01	2.11	Brass
21	mm	255	362	290	167	35	52	193	36	26	54	DI 455
28	in	12.08	14.09	11.28	6.72	1.24	2.03	8.37	1.88	1.83	2.19	Stainless
28	mm	307	358	286	171	31	51	213	48	46	56	Steel

Const. Ref. 27, 28



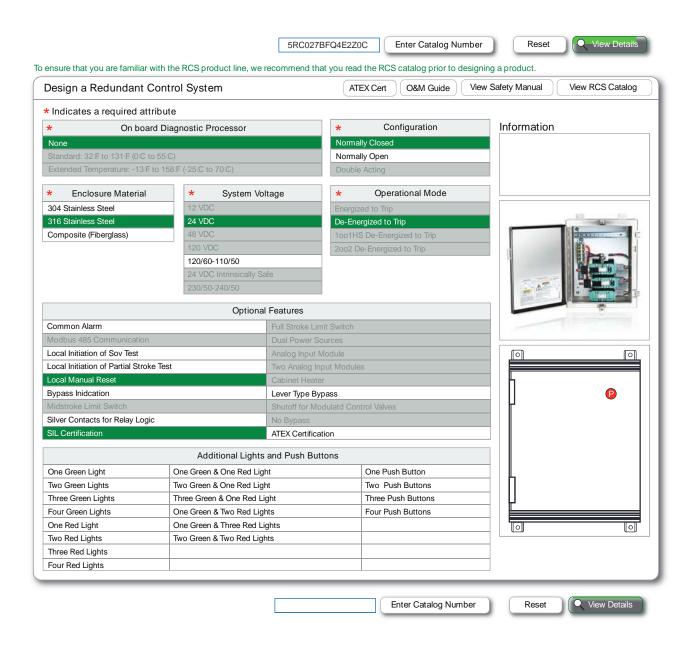


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In addition to creating a catalog number, the configurator can also decipher a catalog number. Type a valid 5RC or 5LC catalog number into the window next to the Enter Catalog Number button (CAPs only). The configurator automatically highlights the appropriate construction features.

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