ASCO™ Stainless Steel Spool Valves

Explosion-proof Low Power Solenoid Valves | Pilot Operated | 1/4" NPT

Features

- Ideal for oil and gas control panel applications
- Drop-in replacement design compatible with most existing applications which eliminates the need to modify existing designs
- Explosion-proof solenoid options
- Solenoid options with factory sealed leads reduce installation time
- ATEX/IECEx and UL/CSA approved for hazardous locations
- Corrosion Resistant 316L Stainless Steel valve material makes it ideal for offshore and harsh environments
- Rated for air, inert gas and sweet dry natural gas

Construction

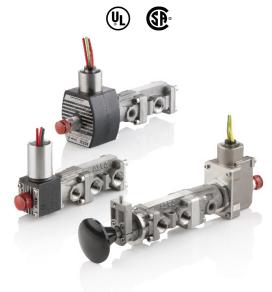
Valve Parts in Contact with Fluids					
Body	316L Stainless Steel				
Spring	Ni-Co Alloy				
Seals	FKM, LT NBR (Solenoid Only)				
Core and Plugnut	430F Stainless Steel				
Spool	316L Stainless Steel				

Electrical

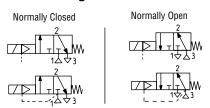
Coil Options	Insulation Class	Wattage	Spare Coil Part Number	
Intrinsically Safe	Н	0.48 W	298006	
Ultra Low Power	F	0.55 W	274714	
Standard Low Power	F	1.4 W	274714	
Compact Low Power	F	1.8 W	437962	
Standard AC	F	10.1 W	274614	
Standard DC	F	11.6 W	274714	
Stainless Steel Encapsulated	F	1.8 W	505434	

IMPORTANT: Supervisory & leakage current above the drop out current listed will cause improper operation. Consult your local ASCO sales office for additional assistance.

Description	Wattage	Voltage (DC)	Min. Pull In (mA)	Drop Out (mA)	Coil Resistance at 68°F (20°C) (Ohms)
	0.55 W	12V	34.0	3.63	255
Ultra Low Power		24V	17.0	1.80	1025
Oilla LOW FOWEI		48V	8.5	0.91	4080
		125V	3.2	0.34	27,400
Standard Low Power	1.4 W	12 V	83.5	13.9	102
Standard Low Fower	1.4 W	24 V	42.0	7.0	410
Compact Low Power	1.8 W	12 V	95.0	20.0	80
Compact Low Fower	1.0 VV	24 V	47.0	10.0	320
Stainless Steel	1.8 W	12 V	99.0	18.0	80
Encapsulated	1.0 W	24 V	47.0	10.0	320



Single Solenoid



Dual Solenoid



Normally Closed Latching Palm Button



Nominal Ambient Temp. Ranges

Ultra Low Power & Intrinsically Safe: -9°F to 149°F (-23°C to 65°C)

Standard Low Power: -9°F to 140°F (-23°C to 60°C) **Compact Low Power:** -9°F to 203°F (-23°C to 95°C) **Standard AC:** -9°F to 125°F (-23°C to 52°C) **Standard DC:** -9°F to 131°F (-23°C to 55°C)

Stainless Steel Encapsulated: -9°F to 194°F (-23°C to 90°C)

Refer to Engineering Section for details.

Solenoid Enclosures

Standard: Explosionproof and Watertight, Types 4X, 6, and 6P. *Refer to Engineering Section for fluid and temperature compatibility.*

Approvals

Solenoid Only:

UL and CSA Certified for Class I, Div. 1 Locations

ATEX, IECEx: Ex d mb ATEX, IECEx: Ex d

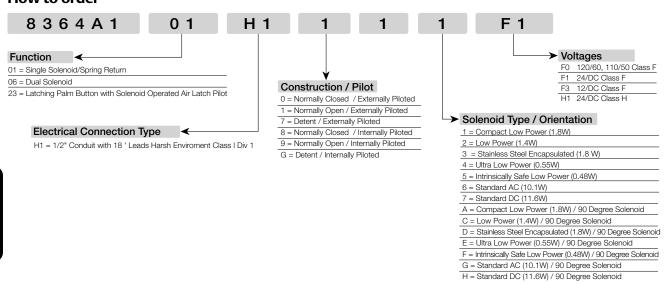
Refer to Engineering Section for details.



Important

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

How to order



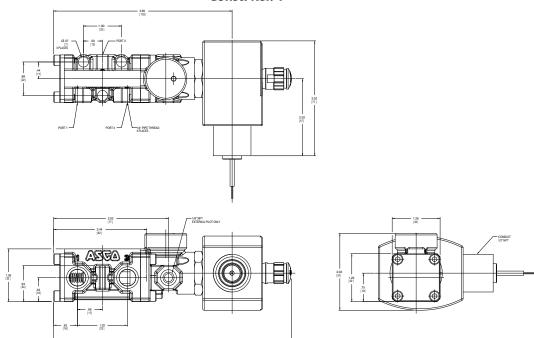
Specifications English units (Metric)

Pipe Size	Pilot Orifice Size	Flow	Operating Pressure External Pilot Differential psi (bar) Pressure psi (bar) Base Catalog			Solenoid	Const.				
(in)	(in)	Cv (Kv)	Min.	Max.	Min.	Max.	Number ①	Function	Orientation	Ref.	
Normally	Normally Open / Internally Piloted										
1/4	1/16	1.1 (0.95)	18 (1.2)	150 (10) ②	N/A	N/A	8364A101H191_F1	Single Solenoid/Spring Return	Straight	1	
1/4	1/16	1.1 (0.95)	18 (1.2)	150 (10) ②	N/A	N/A	8364A101H191_F1	Single Solenoid/Spring Return	90° Solenoid	2	
Normally Open / Externally Piloted											
1/4	1/16	1.1 (0.95)	0	200 (13.8)	36 (2.5)	150 (10) ③	8364A101H111_F1	Single Solenoid/Spring Return	Straight	1	
1/4	1/16	1.1 (0.95)	0	200 (13.8)	36 (2.5)	150 (10) ③	8364A101H111_F1	Single Solenoid/Spring Return	90° Solenoid	2	
Normally Closed / Internally Piloted											
1/4	1/16	1.6 (1.38)	18 (1.2)	150 (10) ②	N/A	N/A	8364A101H181_F1	Single Solenoid/Spring Return	Straight	1	
1/4	1/16	1.6 (1.38)	18 (1.2)	150 (10) ②	N/A	N/A	8364A101H181_F1	Single Solenoid/Spring Return	90° Solenoid	2	
1/4	1/16	1.6 (1.38)	40 (2.8)	150 (10) ②	N/A	N/A	8364A123H181_F1	Latching Palm Button with Solenoid Operated Air Latch Pilot	Straight	3	
1/4	1/16	1.6 (1.38)	40 (2.8)	150 (10) ②	N/A	N/A	8364A123H181_F1	Latching Palm Button with Solenoid Operated Air Latch Pilot	90° Solenoid	4	
Normally (Closed / Ext	ernally Pilote	d						•		
1/4	1/16	1.6 (1.38)	0	200 (13.8)	36 (2.5)	150 (10) ③	8364A101H101_F1	Single Solenoid/Spring Return	Straight	1	
1/4	1/16	1.6 (1.38)	0	200 (13.8)	36 (2.5)	150 (10) ③	8364A101H101_F1	Single Solenoid/Spring Return	90° Solenoid	2	
1/4	1/16	1.6 (1.38)	0	200 (13.8)	40 (2.8)	150 (10) ③	8364A123H101_F1	Latching Palm Button with Solenoid Operated Air Latch Pilot	Straight	3	
1/4	1/16	1.6 (1.38)	0	200 (13.8)	40 (2.8)	150 (10) ③	8364A123H101_F1	Latching Palm Button with Solenoid Operated Air Latch Pilot	90° Solenoid	4	
Detent Into	ernally Pilo	ted		<u> </u>							
1/4	1/16	1.6 (1.38)	15 (1.0)	150 (10) ②	N/A	N/A	8364A106H1G1_F1	Dual Solenoid	Straight	5	
1/4	1/16	1.6 (1.38)	15 (1.0)	150 (10) ②	N/A	N/A	8364A106H1G1_F1	Dual Solenoid	90° Solenoid	6	
Detent Ext	ernally Pilo	ted									
1/4	1/16	1.6 (1.38)	0	200 (13.8)	15 (1.0)	150 (10) ③	8364A106H171_F1	Dual Solenoid	Straight	5	
1/4	1/16	1.6 (1.38)	0	200 (13.8)	15 (1.0)	150 (10) ③	8364A106H171_F1	Dual Solenoid	90° Solenoid	6	
® Book Co	talaa Numb	ara ara liatad i	04 \/	F 10 \/ D	0 -1 1-	et digit from a "1	14 101		1		

- 1 Base Catalog Numbers are listed as 24 V versions. For 12 V DC, change last digit from a "1" to a "3"
- Maximum Operating Pressure for Intrinsically Safe and Ultra Low Power Versions is 130 psi (9 bar) and 200 psi (13.8 bar) for Standard AC
- Maximum Pilot Pressure for Intrinsically Safe and Ultra Low Power Versions is 130 psi (9 bar) and 200 psi (13.8 bar)for Standard AC

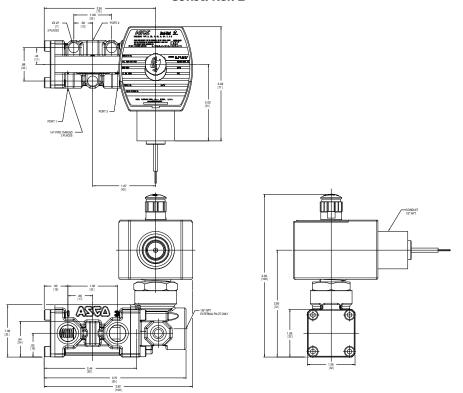


Const. Ref. 1



Note: For Normally Open constructions the operator and return end cap are switched with respect to ports 1 & 3.

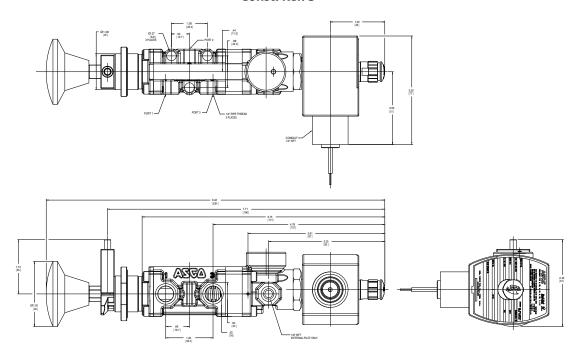
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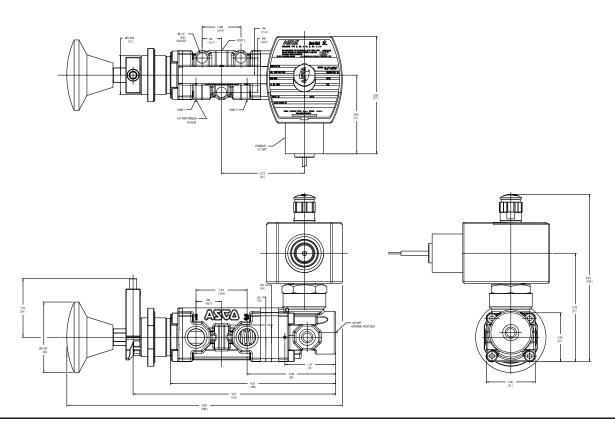
Note: For Normally Open constructions the operator and return end cap are switched with respect to ports 1 & 3.



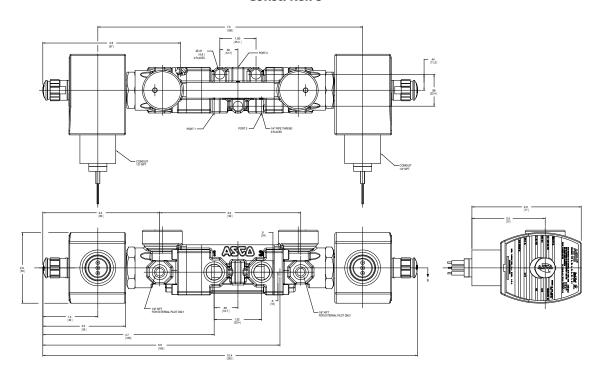
Const. Ref. 3



Const. Ref. 4



Const. Ref. 5



Const. Ref. 6

