

## Miniature Direct-Acting Solenoid Valves and Coils

**Valves**—Suitable for air or inert gas. 3-way, 2-position electric-to-air interface valves are solenoid-actuated with spring return and have sufficient flow for cylinders 1" dia. and smaller. Low-watt models draw 0.94W.

- Max. operating pressure: 150 psi, except 115 psi for Low-Watt coils
- Max. temp. range: 0° to 122°F

Note: Coils sold separately on this page.

Pipe Size	Voltage	Cv	CFM	Mfr. Model	Item No.
<b>Body Ported, Normally Nonpassing Valves</b>					
1/8 in	12V DC	0.062	2.2	CAT33P-012-D	2G485
	24V DC	0.062	2.2	CAT33P-024-L	4KB43
	120V AC	0.062	2.2	CAT33P-120-A	2G487
1/4 in	No Coil	0.062	2.2	CAT33P-000-N	2G483 *
	12V DC	0.2	7.0	CAT66P-012-D	4HN46
	24V DC	0.2	7.0	CAT66P-024-D	4HN47
1/2 in	120V AC	0.062	2.2	CAT66P-024-L	4KB45
	120V AC	0.2	7.0	CAT66P-120-A	4HN48
	No Coil	0.2	7.0	CAT66P-000-N	4KP78 *
3/8 in	12V DC	0.056	2.0	CAT44P-012-D	2G497
	120V AC	0.056	2.0	CAT44P-120-A	2G499
	12V DC	0.2	7.0	CAT88P-012-D	4HN52
1/2 in	24V DC	0.2	7.0	CAT88P-024-D	4HN53
	120V AC	0.2	7.0	CAT88P-120-A	4HN54
<b>Stackable, Normally Nonpassing Valves</b>					
1/8 in	12V DC	0.048	1.8	CAT33S-012-D	2G491
	24V DC	0.048	1.8	CAT33S-024-L	4KB47
	120V AC	0.048	1.8	CAT33S-120-A	2G493
1/4 in	12V DC	0.2	7.0	CAT77S-012-D	4HN49
	24V DC	0.2	7.0	CAT77S-024-D	4HN50
	24V DC	0.062	2.2	CAT77S-024-L	4KB48
1/2 in	120V AC	0.2	7.0	CAT77S-120-A	4HN51

\* Coils sold separately on this page.

Voltage	Mfr. Model	Item No.
<b>22mm Replacement Solenoid Coils for ARO 1/8" Valves</b>		
24V AC/12V DC	116218-38	4HN40
24V DC	116218-39	2F793
120V AC	116218-33	4HN39
240V AC	116218-35	2F789
<b>30mm Replacement Solenoid Coils for ARO 1/4" Valves</b>		
12V DC	119690-38	4KP76
24V DC	119690-39	4KP77
120V AC	119690-33	4KP73
240V AC	119690-35	4KP74

**Coils and Connectors**—Total coil rating is 311°F, which includes heat rise. AC or DC coils can be interchanged on same solenoid stem. 1 connector required for each coil.

- Max. temp. range: 0° to 122°F
- 100% duty cycle

**Hazardous Location Solenoid Coils**—Coils fit on the same 22mm armature assembly used by Alpha-, MaxAir-, CAT-, H-, and K-series ARO brand valves available on this page and pages 2432 to 2433. For use in areas where air contains combustible dust or chemical fumes.

- Max. temp. range: 0° to 311°F
- 100% duty cycle coil insulation type

Description	Voltage	Mfr. Model	Item No.
<b>22mm Connectors for ARO 1/8" Valves</b>			
Without Lead Wires	120V AC, 240V AC/12V DC, 24V DC	CSN	2G505
With 18" Lead Wires	120V AC, 240V AC/12V DC, 24V DC	CDW	2G501
With 36" Molded Cable	120V AC, 240V AC/12V DC, 24V DC	CHW	2G503
With Indicator Light, 36" Leads	120V AC	CHL-120	4KB60
With Indicator Light, 36" Leads	24V DC	CHL-024	4KB61

30mm Connectors for ARO 3/4" Valves		CSN-30	4HN57
Without Lead Wires	120V AC, 240V AC/12V DC, 24V DC	CSN-30	4HN57
With 18" Lead Wires	120V AC, 240V AC/12V DC, 24V DC	CDW-30	4HN55
With 36" Molded Cable	120V AC, 240V AC/12V DC, 24V DC	CHW-30	4HN56

Description	Mfr. Model	Item No.
<b>Stacking Kits for 1/4" Port Mini Solenoid Valves</b>		
<b>4HN49, 4HN50, 4KB48, 4HN51</b>		
2 Station	119698-2	1MLD3
3 Station	119698-3	1MLD4
4 Station	119698-4	1MLD5
5 Station	119698-5	1MLD6
6 Station	119698-6	1MLD7
<b>Stacking Kits for 1/8" Port Mini Solenoid Valves 2G491, 4KB47, 2G493</b>		
2 Station	116345-2	1MLC7
3 Station	116345-3	1MLC8
4 Station	116345-4	1MLC9
6 Station	116345-6	1MLD2

Voltage	Inrush Amps	Holding Amps	Mfr. Model	Item No.
<b>Hazardous Location Solenoid Coils for 1/8" Ported Valves</b>				
120V AC	0.08 A	0.05 A	114772-33	4KB33
24V DC	0.4 A	0.3 A	114772-39	4KB34



4HN48



4HN39



2G503

## Compact Solenoid Valves

- Max. operating pressure: 115 psi
- Max. temp. range: 0° to 122°F
- 18mm wide, 1/8" NPT ported

Feature a standard 1-touch push override and require 1 solenoid connector, sold separately, per coil.

				120VAC COIL		24VDC COIL		12VDC COIL		
Air Valve Type	Actuator/Return	Cv	CFM	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	
<b>1/8" Manifold Mounted Valves</b>										
4-Way, 2-Position	Solenoid/Spring	0.3	30	M819SS-120-A	4KB49	M819SS-024-D	4KB50	—	—	
4-Way, 2-Position	Solenoid/Solenoid	0.3	30	M819SD-120-A	4KB51	M819SD-024-D	4KB52	—	—	
<b>1/4 in Body Ported Solenoids</b>										
4-Way, 2-Position	Solenoid/Spring	0.7	30	M812SS-120-A	4TR81	M812SS-024-D	4TR80	M812SS-012-D	4TR79	
4-Way, 2-Position	Solenoid/Solenoid	0.7	30	M812SD-120-A	4TR78	M812SD-024-D	4TR77	M812SD-012-D	4TR76	
<b>1/2 in Body Ported Solenoids, Closed Center Position</b>										
4-Way, 3-Position	Solenoid/Solenoid	0.5	21	M813SD-120-A	4TR84	M813SD-024-D	4TR83	M813SD-012-D	4TR82	
<b>1/2 in Body Ported Solenoids, Open Center Position</b>										
4-Way, 3-Position	Solenoid/Solenoid	0.5	21	M817SD-120-A	4TR87	M817SD-024-D	4TR86	M817SD-012-D	4TR85	
No. of Stations*	Mfr. Model	Item No.	No. of Stations*	Mfr. Model	Item No.	Description		Mfr. Model	Item No.	
<b>Manifolds for Body Ported Valves</b>					<b>Solenoid Connectors</b>					
2	SM181N-02	4TR91	2	SMH81N-02	4KB53	Connector, 16mm, 39" Molded Leads		CHW6	4TR74	
4	SM181N-04	4TR92	4	SMH81N-04	4KB54	Connector with Indicator Light, 16mm, 39" Leads, 24VDC		CHL6-024	4KB58	
					8	SMH81N-08	Connector with Indicator Light, 16mm, 39" Leads, 120VAC		CHL6-120	4KB59
					10	SMH81N-10	Connector, 16mm DIN, Strain Relief		CSN6	4TR75
<b>* When using an odd number of stations, Blanking Plate 2F865 must be used, (sold separately on Grainger.com)</b>										