

### Features

- Miniature size (1.08" OAL)
- Direct acting
- Mounting versatility
- Lightweight (.4 oz)
- Manual override
- Fast response time
- LED standard
- 2 & 3-way normally closed, 3-way normally open



## 2 & 3-Way Solenoid Valves 10 mm

Pneumadyne's 10 mm direct acting solenoid valves are a cost effective, space saving solution for the use of single or multiple valves. An overall length of 1.08" and height of .52" make this valve the ideal choice for limited space applications.

Select from three connector options to simplify valve installation. Convenient Line & 90° Connectors (both with LED) provide quick electrical connection when used in conjunction with the plug-in cable (sold separately). The standard Flying Lead Connector features 300 mm wires for direct connection.

### Life Expectancy

50 million cycles @ 2,700 maximum cycles per minute

This versatile valve offering includes 12 & 24 Volt DC and a low watt 24 Volt DC. Fast response times and high flow rates make this miniature valve suitable for numerous applications.

### Pneumatic Performance Data 10 mm

Temperature Range			20°F to 120°F (-5°C to 50°C)*			
Orifice/Function	Operating Pressure	C <sub>v</sub>	50 psi	Flow Rate (scfm) Max. psi	Fill Time sec/ in <sup>3</sup> 0-90 psi	Exhaust Time sec/ in <sup>3</sup> 100-10 psi
0.7 mm NC	105 psi	.013	.54	1.05 @ 105 psi (7 bar)	.28	.32
0.5 mm NC	105 psi	.010	.27	.51 @ 105 psi (7 bar)	.54	.54
0.7 mm NO	105 psi	.010	.38	.79 @ 105 psi (7 bar)	.40	.42

Cv per ANSI / (NFPA) T3.21.3

\*100% Duty Cycled

### Electrical Performance Data 10 mm

Voltage Tolerance	Response Time Energize	Response Time De-energize	Copper Wire Insulation Class
-5 % to 10%	8 ms	10 ms	F 311°F (155°C)

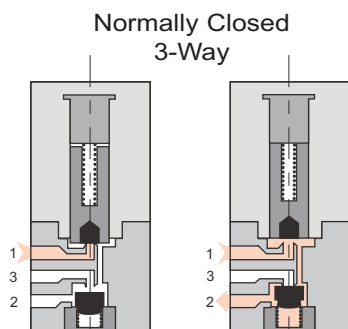
Connector wire gauge: 24 AWG

### Materials

Copper, Nylon-Glass Filled, Stainless Steel, Buna-N

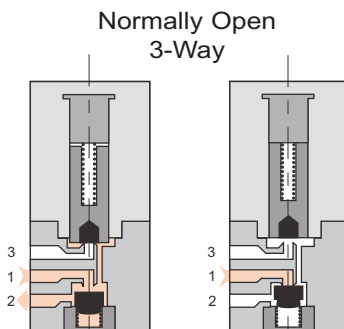
## 10 mm Solenoid Valve Cross Section

2-Way &amp; 3-Way



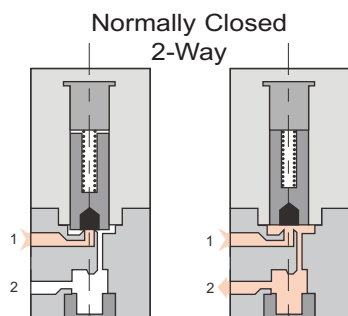
De-energized

Energized



De-energized

Energized



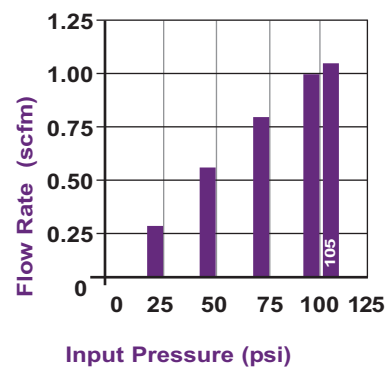
De-energized

Energized

## Port Designation

1	Input Port
2	Output Port
3	Exhaust Port

## 10 mm Solenoid Flow Chart



Ø 0.7 mm Orifice, 1.3 W



**Position Indicators-** Silver plate indicates Normally Closed valve, **Black** plate indicates Normally Open valve

## Product Number Diagram

10 mm

S 10 M M - 3 0 - 1 2 - 2

## Actuator

Solenoid 10 mm

## Function

2= 2-Way

3= 3-Way

## Position One

0= Normally Closed

1= Normally Open

## Voltage

12= 12V DC

24= 24V DC

24LW= 24V DC

(0.6 Watt)

## Connectors

2= Flying Leads

300 mm

3= Line Connector

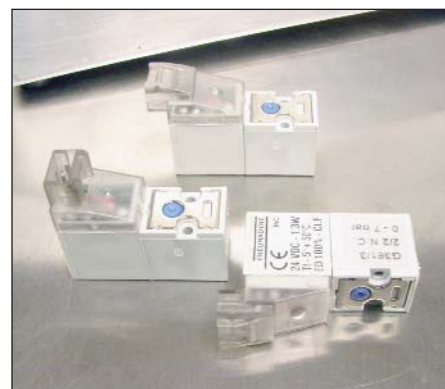
w/LED

4= 90° Connector

w/LED

## Example:

10 mm, 3-Way, Normally Closed, 12V DC, Flying Leads



90° Connectors and Line Connectors offer plumbing versatility and feature a "surge voltage suppressor"

Plug-in Cable lengths of 300 mm, 500 mm, and 1000 mm are available for fast connection to Line and 90° Connectors



Cover Plates effectively conceal unused manifold stations and block valve supply port (sold separately)



10 mm four station manifold with Line and 90° Connectors

## Product Information 10 mm

### 2-Way Normally Closed

Part Number	Connection
<b>12 DC/ 1.6 Watt/ Orifice .7mm</b>	
S10MM-20-12-2	Flying Leads
S10MM-20-12-3	Line Connector
S10MM-20-12-4	90° Connector
<b>24 DC/ 1.6 Watt/ Orifice .7mm</b>	
S10MM-20-24-2	Flying Leads
S10MM-20-24-3	Line Connector
S10MM-20-24-4	90° Connector

### 24 LW/ .6 Watt/ Orifice .5mm

S10MM-20-24LW-2	Flying Leads
S10MM-20-24LW-3	Line Connector
S10MM-20-24LW-4	90° Connector

### 3-Way Normally Closed

Part Number	Connection
<b>12 DC/ 1.6 Watt/ Orifice .7mm</b>	
S10MM-30-12-2	Flying Leads
S10MM-30-12-3	Line Connector
S10MM-30-12-4	90° Connector
<b>24 DC/ 1.6 Watt/ Orifice .7mm</b>	
S10MM-30-24-2	Flying Leads
S10MM-30-24-3	Line Connector
S10MM-30-24-4	90° Connector

### 24 LW/ .6 Watt/ Orifice .5mm

S10MM-30-24LW-2	Flying Leads
S10MM-30-24LW-3	Line Connector
S10MM-30-24LW-4	90° Connector

### 3-Way Normally Open

Part Number	Connection
<b>12 DC/ 1.6 Watt/ Orifice .7mm</b>	
S10MM-31-12-2	Flying Leads
S10MM-31-12-3	Line Connector
S10MM-31-12-4	90° Connector
<b>24 DC/ 1.6 Watt/ Orifice .7mm</b>	
S10MM-31-24-2	Flying Leads
S10MM-31-24-3	Line Connector
S10MM-31-24-4	90° Connector

### Accessories

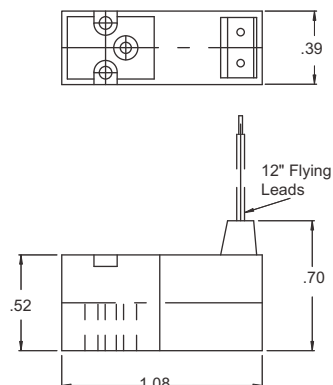
Part Number	Description
SMMC-300	Plug-in cable 300 mm
SMMC-500	Plug-in cable 500 mm
SMMC-1000	Plug-in cable 1000 mm
MSV10-CP	10 mm cover plate

**Variety of voltages, orifices and connectors are available - contact factory with requirements**

## 10 mm Solenoid Valve

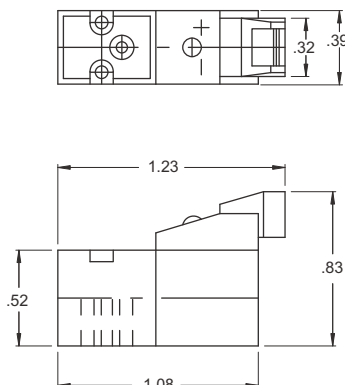
## Flying Leads

## “-2” Connector



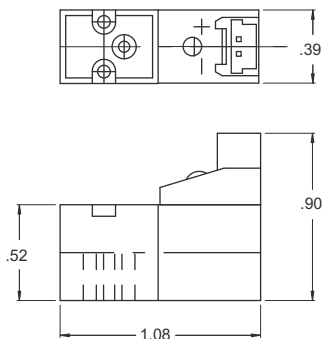
## Line Connector

## “-3” Connector



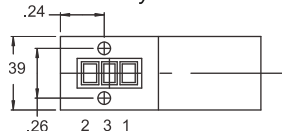
## 90° Connector

## “-4” Connector

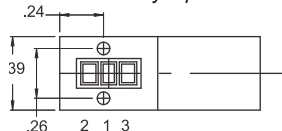


## 10 mm Port Designation

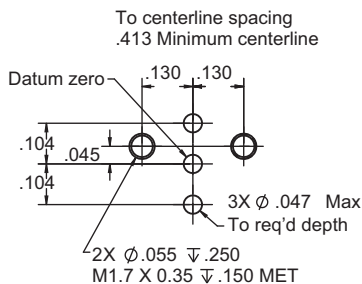
## Normally Closed



## Normally Open



## 10 mm Footprint



● All measurements in inches, unless otherwise specified. When design makes a dimension critical- contact factory for confirmation. All dimensions shown subject to change without notice.

## Ordering Information

- To order standard product refer to Product Information listing.
- Cover Plates available for use with manifolds.
- Plug-in Cable for use with Line and 90° Connectors available.
- Mounting screws provided.

**Polarity Counts!**  
Some valves require  
“+ to +” and “- to -”  
connection

For use with Pneumadyne's 10 mm manifolds and bases. [Click here](#) for ordering information.

### Features

- Miniature size (1.65" OAL)
- Direct acting
- Mounting versatility
- Lightweight (1.3 oz)
- Manual override
- Fast response time
- LED standard
- 2 & 3-way normally closed, 2 & 3-way normally open



## 2 & 3-Way Solenoid Valves 15 mm

Pneumadyne's 15 mm direct acting solenoid valves are a cost effective, space saving solution for the use of single or multiple valves. A wide variety of connector, electrical and mounting options are available to accommodate numerous applications.

Convenient Line & 90° Connectors (both with LED) provide quick electrical connection when used in conjunction with the plug-in cable (sold separately). The standard Flying Lead features 300 mm wires for direct connection. The 15 mm valves incorporate a fourth option, the Spade Connector, providing installation versatility (DIN Connector available).

### Life Expectancy

50 million cycles @ 2,700 maximum cycles per minute (with standard working conditions)

This versatile valve offering includes 12 Volt DC, 24 Volt DC and 110 Volt AC coils. Three orifice diameters, 0.8 mm, 1.1 mm & 1.6 mm, are also available to fit flow rates to application requirements. Fast response times and high flow rates make this miniature valve ideal for a wide variety of applications.

### Pneumatic Performance Data 15 mm

Temperature Range			20°F to 120°F (-5°C to 50°C)*			
Orifice/ Function	Operating Pressure	Cv	Flow Rate (scfm)		Fill Time sec/ in3	Exhaust Time sec/ in3
		50 psi	Max. psi0-90 psi		100-10 psi	
E, 0.8/1.1 mm NC, LW	150 psi	.017	.67	1.80 @ 150 psi (10 bar)	.21	.19
D, 1.1/1.1 mm NC	150 psi	.028	1.10	3.10 @ 150 psi (10 bar)	.12	.17
D, 1.1/1.1 mm NO	105 psi	.029	.97	1.82 @ 105 psi (7 bar)	.14	.26
B, 1.6/1.6 mm NC	105 psi	.047	1.90	3.60 @ 105 psi (7 bar)	.07	.12
B, 1.6/1.6 mm NO	75 psi	.034	1.40	2.10 @ 75 psi (5 bar)	.10	.16
C, 1.6/1.1 mm NO	105 psi	.026	1.00	1.90 @ 105 psi (7 bar)	.21	.19

Cv per ANSI / (NFPA) T3.21.3, \*100% Duty Cycled

### Electrical Performance Data 15 mm

Voltage Tolerance	Response Time Energize	Response Time De-energize	Copper Wire Insulation Class
-5 % to 10%	10 ms	12 ms	F 311°F (155°C)

Connector wire gauge: 24 AWG

### Materials

Copper, Nylon-Glass Filled, Stainless Steel, Buna-N

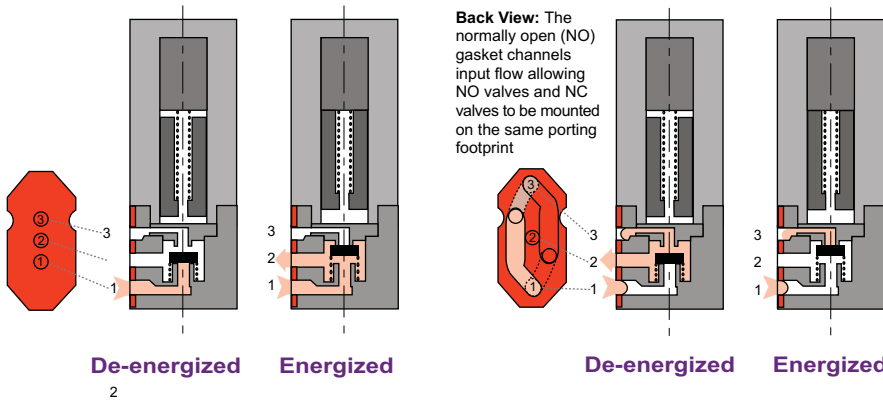


## 15 mm Solenoid Valve Cross Section

3-Way

3-Way Normally Closed

3-Way Normally Open

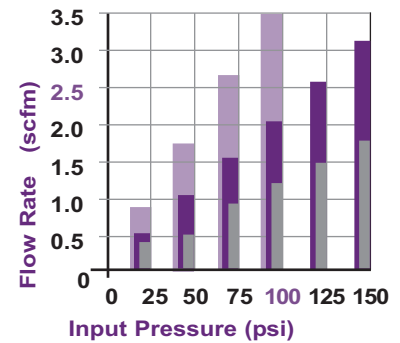


## Port Designation

1	Input Port
2	Output Port
3	Exhaust Port

15 mm Solenoid Flow Chart

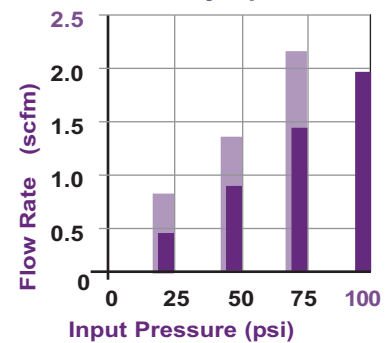
Normally Closed



— Ø 0.8 mm Orifice, 1.0 W  
 — Ø 1.1 mm Orifice, 2.3 W  
 — Ø 1.6 mm Orifice, 2.3 W

15 mm Solenoid Flow Chart

Normally Open



— Ø 1.1 mm Orifice, 2.3 W  
 — Ø 1.6 mm Orifice, 2.3 W

## Product Number Diagram

15 mm

S 1 5 M M - 3 0 - 1 2 - 0 B

**Actuator**  
 Solenoid 15 mm

## Function

2= 2-Way  
 3= 3-Way

## Position One

0= Normally Closed  
 1= Normally Open

## Connectors

0= Spade  
 2= Flying Leads  
 300 mm  
 3= Line Connector  
 w/LED  
 4= 90° Connector  
 w/LED

## Voltage

12= 12V DC  
 12W = 12V DC 1 Watt  
 24= 24V DC  
 24W= 24V DC 1 Watt  
 110 = 110 AC

## Orifice

B= Ø 1.6/1.6 mm  
 C= Ø 1.6/1.1 mm  
 (NO only)  
 D= Ø 1.1/1.1 mm  
 E= Ø 0.8/1.1 mm

## Example:

15 mm, 3-Way, Normally Closed, 12V DC, Spade Connector,  
 1.6 mm Ø Orifice

**Polarity Counts!**  
**Some components**  
**require “+ to +” and**  
**“- to -” connection**



15 mm Cover Plate (sold separately) includes mounting screws



DIN Connectors (sold separately-shown installed) available for 15 mm Spade Connector



Normally closed and normally open 15 mm valves can be mounted on the same manifold

### ***Coil can be rotated 180°***

Cylinder Control Valves are ideal for applications requiring controlled movement of single-acting spring return cylinders. Designed for use with Pneumadyne's 15mm valves.

## **Product Information 15 mm**

### 2-Way Normally Closed

<i>Part Number</i>	<i>Connection</i>
<b>12V DC/ 2.5 Watt/ Orifice 1.6/1.6 mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
S15MM-20-12-0B	Spade
S15MM-20-12-2B	Flying Leads
S15MM-20-12-3B	Line Connector
S15MM-20-12-4B	90° Connector
<b>12V DC/ 2.5 Watt/ Orifice 1.1/1.1 mm</b>	
<b>150 psi- Max. Operating Pressure</b>	
S15MM-20-12-0D	Spade
S15MM-20-12-2D	Flying Leads
S15MM-20-12-3D	Line Connector
S15MM-20-12-4D	90° Connector
<b>12V DC/ 1.0 Watt/ Orifice 0.8/1.1 mm</b>	
<b>150 psi- Max. Operating Pressure</b>	
S15MM-20-12W-0E	Spade
S15MM-20-12W-2E	Flying Leads
S15MM-20-12W-3E	Line Connector
S15MM-20-12W-4E	90° Connector

<b>24V DC/ 2.5 Watt/ Orifice 1.6/1.6 mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
S15MM-20-24-0B	Spade
S15MM-20-24-2B	Flying Leads
S15MM-20-24-3B	Line Connector
S15MM-20-24-4B	90° Connector

<b>24V DC/ 2.5 Watt/ Orifice 1.1/1.1 mm</b>	
<b>150 psi- Max. Operating Pressure</b>	
S15MM-20-24-0D	Spade
S15MM-20-24-2D	Flying Leads
S15MM-20-24-3D	Line Connector
S15MM-20-24-4D	90° Connector

<b>24V DC/ 1.0 Watt/ Orifice 0.8/1.1 mm</b>	
<b>150 psi- Max. Operating Pressure</b>	
S15MM-20-24W-0E	Spade
S15MM-20-24W-2E	Flying Leads
S15MM-20-24W-3E	Line Connector
S15MM-20-24W-4E	90° Connector

### 2-Way Normally Open

<i>Part Number</i>	<i>Connection</i>
<b>12V DC/ 2.5 Watt/ Orifice 1.6/1.6 mm</b>	
<b>75 psi- Max. Operating Pressure</b>	
S15MM-21-12-0B	Spade
S15MM-21-12-2B	Flying Leads
S15MM-21-12-3B	Line Connector
S15MM-21-12-4B	90° Connector
<b>12V DC/ 2.5 Watt/ Orifice 1.6/1.1 mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
S15MM-21-12-0C	Spade
S15MM-21-12-2C	Flying Leads
S15MM-21-12-3C	Line Connector
S15MM-21-12-4C	90° Connector

<b>24V DC/ 2.5 Watt/ Orifice 1.6/1.6 mm</b>	
<b>75 psi- Max. Operating Pressure</b>	
S15MM-21-24-0B	Spade
S15MM-21-24-2B	Flying Leads
S15MM-21-24-3B	Line Connector
S15MM-21-24-4B	90° Connector
<b>24V DC/ 2.5 Watt/ Orifice 1.6/1.1mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
S15MM-21-24-0C	Spade
S15MM-21-24-2C	Flying Leads
S15MM-21-24-3C	Line Connector
S15MM-21-24-4C	90° Connector

### Accessories

<i>Part Number</i>	<i>Description</i>
SMMC-300	Plug-in cable 300 mm
SMMC-500	Plug-in cable 500 mm
SMMC-1000	Plug-in cable 1000 mm
MSV15-CP	15mm cover plate
SMM-DIN	DIN (15 mm ONLY)
SMM-MDIN	Molded DIN cable 3 M (15 mm ONLY)

## Product Information 15 mm

### 3-Way Normally Closed

Part Number	Connection
<b>12V DC/ 2.5 Watt/ Orifice 1.6/1.6 mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
<b>S15MM-30-12-0B</b>	Spade
<b>S15MM-30-12-2B</b>	Flying Leads
<b>S15MM-30-12-3B</b>	Line Connector
<b>S15MM-30-12-4B</b>	90° Connector
<b>12V DC/ 2.5 Watt/ Orifice 1.1/1.1 mm</b>	
<b>150 psi- Max. Operating Pressure</b>	
<b>S15MM-30-12-0D</b>	Spade
<b>S15MM-30-12-2D</b>	Flying Leads
<b>S15MM-30-12-3D</b>	Line Connector
<b>S15MM-30-12-4D</b>	90° Connector
<b>12V DC/ 1.0 Watt/ Orifice 0.8/1.1 mm</b>	
<b>150 psi- Max. Operating Pressure</b>	
<b>S15MM-30-12W-0E</b>	Spade
<b>S15MM-30-12W-2E</b>	Flying Leads
<b>S15MM-30-12W-3E</b>	Line Connector
<b>S15MM-30-12W-4E</b>	90° Connector

<b>24V DC/ 2.5 Watt/ Orifice 1.6/1.6 mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
<b>S15MM-30-24-0B</b>	Spade
<b>S15MM-30-24-2B</b>	Flying Leads
<b>S15MM-30-24-3B</b>	Line Connector
<b>S15MM-30-24-4B</b>	90° Connector
<b>24V DC/ 2.5 Watt/ Orifice 1.1/1.1 mm</b>	
<b>150 psi- Max. Operating Pressure</b>	
<b>S15MM-30-24-0D</b>	Spade
<b>S15MM-30-24-2D</b>	Flying Leads
<b>S15MM-30-24-3D</b>	Line Connector
<b>S15MM-30-24-4D</b>	90° Connector
<b>24V DC/ 1.0 Watt/ Orifice 0.8/1.1 mm</b>	
<b>150 psi- Max. Operating Pressure</b>	
<b>S15MM-30-24W-0E</b>	Spade
<b>S15MM-30-24W-2E</b>	Flying Leads
<b>S15MM-30-24W-3E</b>	Line Connector
<b>S15MM-30-24W-4E</b>	90° Connector

### 3-Way Normally Closed (Cont'd)

Part Number	Connection
<b>110V AC/ 2.8 VA/ Orifice 1.6/1.6 mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
<b>S15MM-30-110-0B</b>	Spade
<b>S15MM-30-110-2B</b>	Flying Leads
<b>S15MM-30-110-3B</b>	Line Connector
<b>S15MM-30-110-4B</b>	90° Connector
<b>110V AC/ 2.8 VA/ Orifice 1.1/1.1mm</b>	
<b>S15MM-30-110-0D</b>	Spade
<b>S15MM-30-110-2D</b>	Flying Leads
<b>S15MM-30-110-3D</b>	Line Connector
<b>S15MM-30-110-4D</b>	90° Connector

### 3-Way Normally Open

Part Number	Connection
<b>12V DC/ 2.5 Watt/ Orifice 1.6/1.6 mm</b>	
<b>75 psi- Max. Operating Pressure</b>	
<b>S15MM-31-12-0B</b>	Spade
<b>S15MM-31-12-2B</b>	Flying Leads
<b>S15MM-31-12-3B</b>	Line Connector
<b>S15MM-31-12-4B</b>	90° Connector
<b>12V DC/ 2.5 Watt/ Orifice 1.6/1.1 mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
<b>S15MM-31-12-0C</b>	Spade
<b>S15MM-31-12-2C</b>	Flying Leads
<b>S15MM-31-12-3C</b>	Line Connector
<b>S15MM-31-12-4C</b>	90° Connector
<b>12V DC/ 2.5 Watt/ Orifice 1.1/1.1 mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
<b>S15MM-31-12-0D</b>	Spade
<b>S15MM-31-12-2D</b>	Flying Leads
<b>S15MM-31-12-3D</b>	Line Connector
<b>S15MM-31-12-4D</b>	90° Connector



Pneumadyne's Solenoid Valves are recommended for use with our solenoid manifolds & single bases. For mounting convenience, single to 12-station manifolds are available with 10-32 (F) or M5 (F) threads. [See page 126 for product](#) for ordering information.

### 3-Way Normally Open (Cont'd)

Part Number	Connection
<b>24V DC/ 2.5 Watt/ Orifice 1.6/1.6 mm</b>	
<b>75 psi- Max. Operating Pressure</b>	
<b>S15MM-31-24-0B</b>	Spade
<b>S15MM-31-24-2B</b>	Flying Leads
<b>S15MM-31-24-3B</b>	Line Connector
<b>S15MM-31-24-4B</b>	90° Connector
<b>24V DC/ 2.5 Watt/ Orifice 1.6/1.1mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
<b>S15MM-31-24-0C</b>	Spade
<b>S15MM-31-24-2C</b>	Flying Leads
<b>S15MM-31-24-3C</b>	Line Connector
<b>S15MM-31-24-4C</b>	90° Connector
<b>24V DC/ 2.5 Watt/ Orifice 1.1/1.1mm</b>	
<b>105 psi- Max. Operating Pressure</b>	
<b>S15MM-31-24-0D</b>	Spade
<b>S15MM-31-24-2D</b>	Flying Leads
<b>S15MM-31-24-3D</b>	Line Connector
<b>S15MM-31-24-4D</b>	90° Connector



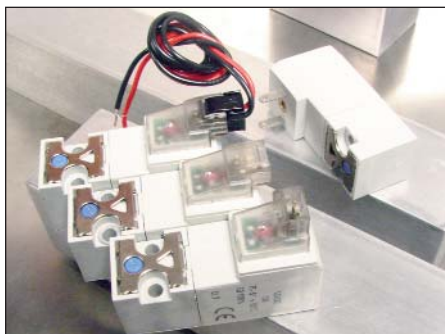


Position indicators- **Silver** plate indicates normally closed valve

**Black** plate indicates normally open valve



Manual override is standard on all 15 mm Solenoid Valves

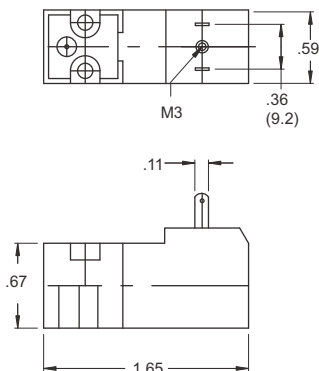


A variety of connector options provides installation versatility

## 15 mm Solenoid Valve

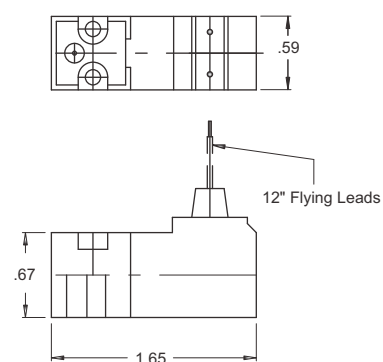
### Spade

#### "-0" Connector



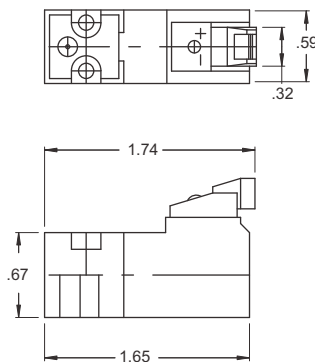
### Flying Leads

#### "-2" Connector



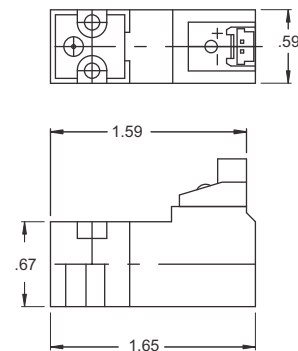
### Line Connector

#### "-3" Connector

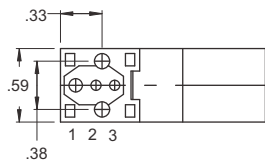


### 90° Connector

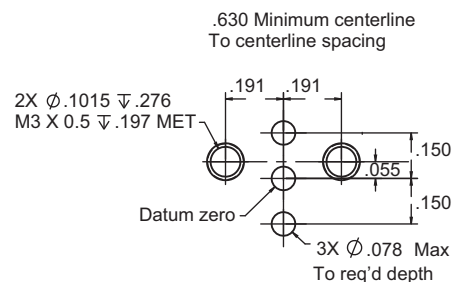
#### "-4" Connector



### 15 mm Port Designation



### 15 mm Footprint



## Ordering Information

- To order standard product refer to Product Information listing.
- Cover Plates available for use with manifolds.
- Plug-in Cable for use with Line and 90° Connectors available.
- Mounting screws provided.

● All measurements in inches, unless otherwise specified. When design makes a dimension critical- contact factory for confirmation. All dimensions shown subject to change without notice.



### Solenoid Operated Custom Products

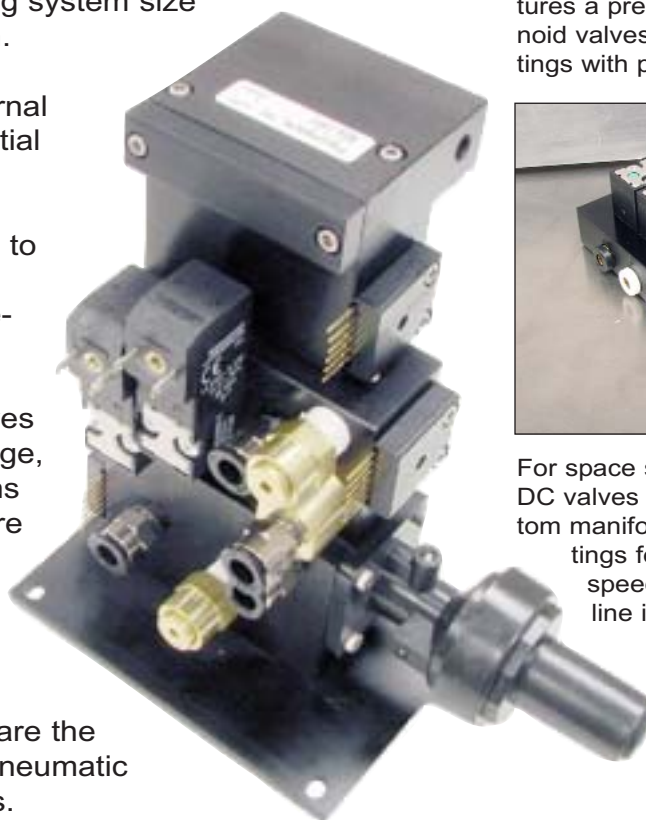
- Reduce system size through component consolidation
- Ease product installation saving time & money
- Eliminate potential leak-points
- Improve efficiency & appearance through good design
- Increase reliability with quality components

## Incorporating Solenoid Valves in Custom Products

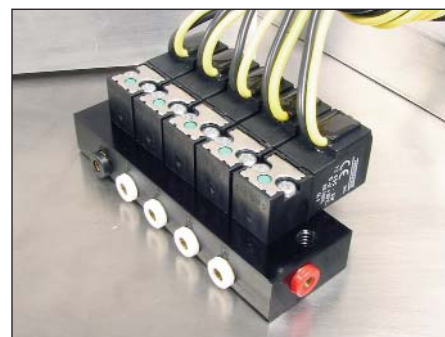
For over 30 years, manufacturers have relied on Pneumadyne for innovative solutions to their fluid handling applications. Whether using standard or custom products, we take the time to understand your needs and recommend components and systems that best fit your requirements.

Incorporating solenoid valves in custom products allows Pneumadyne engineers to consolidate components into a common body thereby reducing system size and easing product installation. Component consolidation also decreases the number of external connections, eliminating potential leak-points in your application.

From basic lifting mechanisms to critical medical devices, the breadth of Pneumadyne's solenoid offering lends itself to a wide variety of applications. Four styles of high quality valves provide an assortment of voltage, connection and wattage options to ensure that specifications are met when used in custom products. With flow rates ranging from .99 to 7.5 scfm at 100 psi and response rates as low as 8 milliseconds, Pneumadyne solenoid valves are the ideal interface between your pneumatic systems and electrical controls.



This distinctive valve assembly features a pressure regulator, two solenoid valves, a needle valve and fittings with precision orifices



For space saving purposes, five 12V DC valves are condensed on a custom manifold. Push-to-connect fittings feature colored collets to speed installation and simplify line identification.

### Features

- Multiple mounting options
- Independent coil orientation
- Manual override
- 2 & 3-Way normally closed
- DIN Connector available



## 2 & 3-Way Solenoid Valves System 6

System 6 solenoids offer fast response times. A wide variety of voltages is available to fit application specifications. The low wattage (0.8 watt) version is ideal for use in low power control circuits.

Single to 5-station manifolds are available for mounting convenience. System 6 solenoids can be fixed in either direction on the manifold and coil orientation is independent of valve orientation.

### Life Expectancy

20 million cycles

### Pneumatic Performance Data System 6

Temperature Range			5°F to 122°F (-15°C to 50°C)			
Orifice/ Wattage	Operating Pressure	C <sub>v</sub>	Flow Rate (scfm)		Fill Time sec/ in <sup>3</sup> 0-90 psi	Exhaust Time sec/ in <sup>3</sup> 100-10 psi
			50 psi	125 psi		
Ø 0.6 mm / 0.8 watt	0-125 psi	.02	.47	1.05	.29	.47
Ø 1.0 mm / 2.9 watt, 3.1 VA	0-125 psi	.04	1.27	2.78	.11	.18

Cv per ANSI / (NFPA) T3.21.3

### Electrical Performance Data System 6

Voltage Tolerance	Response Time Energize	Response Time De-energize	Copper Wire Insulation Class
-10% to 10%	15 ms	7 ms	F 311°F (155°C)

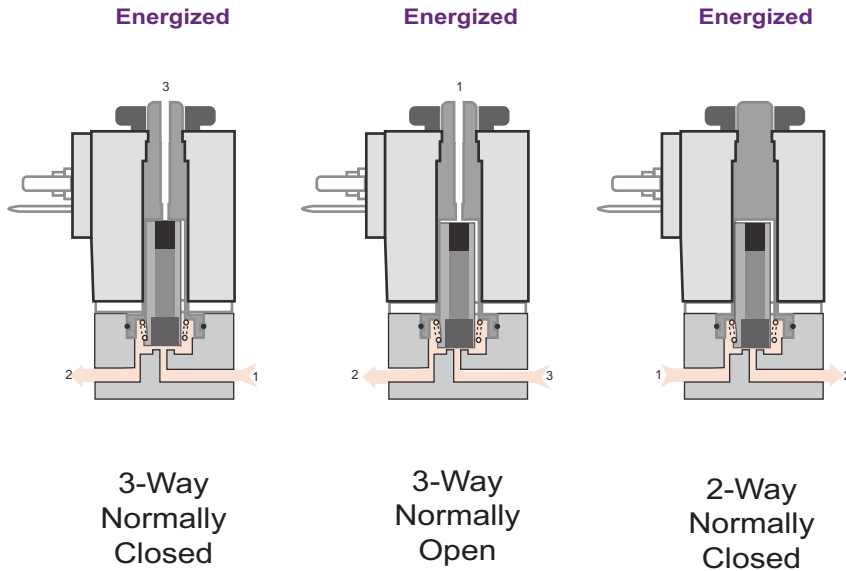
Flying leads wire gauge: 24 AWG

### Materials

Brass, Enameled Copper, Viton®, Polyimide, Cr-Ni-Steel

## System 6 Solenoid Valve Cross Section

2-Way & 3-Way



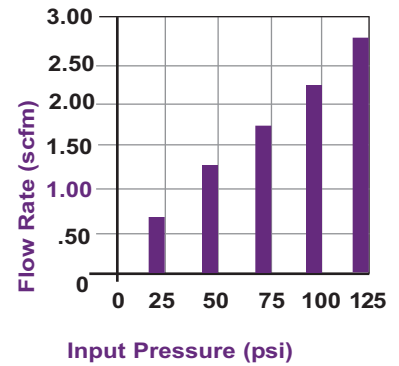
### Port designation

1	2	3
Input Port	Output Port	Exhaust Port

*The low wattage (0.8 watt) version solenoid valve is ideal for use in low power control circuits*

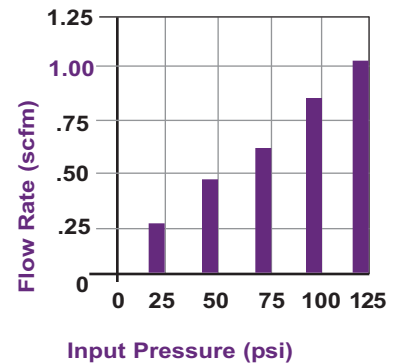
System 6 Flow Chart

1.0 Orifice



System 6 Flow Chart

0.6 Orifice



18" 20 AWG Flying Leads





DIN Connector (shown installed)  
Provides dust and watertight termination while relieving strain between cable and solenoid



System 6 coil can be fixed at 12 o'clock, 3, 6, and 9 o'clock on the valve body

**Coil orientation is independent of valve orientation**

## Product Information System 6

### 2-Way Normally Closed

<i>Part Number</i>	<i>Description</i>
<b>Orifice 1.0 mm</b>	
<b>S6-20-110-0</b>	110/120 AC, 3.1 VA, Spade
<b>S6-20-110-2</b>	110/120 AC, 3.1 VA, Flying Leads
<b>S6-20-12-0</b>	12 DC, 2.9 Watt, Spade
<b>S6-20-12-2</b>	12 DC, 2.9 Watt, Flying Leads
<b>S6-20-220-0</b>	220/240 AC, 3.1 VA, Spade
<b>S6-20-220-2</b>	220/240 AC, 3.1 VA, Flying Leads
<b>S6-20-24AC-0</b>	24 AC, 3.1 VA, Spade
<b>S6-20-24AC-2</b>	24 AC, 3.1 VA, Flying Leads
<b>S6-20-24-0</b>	24 DC, 2.9 Watt, Spade
<b>S6-20-24-2</b>	24 DC, 2.9 Watt, Flying Leads

<i>Part Number</i>	<i>Description</i>
<b>Orifice 0.6 mm</b>	
<b>S6-20-12LW-0</b>	12 DC, 0.8 Watt, Spade
<b>S6-20-12LW-2</b>	12 DC, 0.8 Watt, Flying Leads
<b>S6-20-24LW-0</b>	24 DC, 0.8 Watt, Spade
<b>S6-20-24LW-2</b>	24 DC, 0.8 Watt, Flying Leads

### 3-Way Normally Closed

<i>Part Number</i>	<i>Description</i>
<b>Orifice 1.0 mm</b>	
<b>S6-30-110-0</b>	110/120 AC, 3.1 VA, Spade
<b>S6-30-110-2</b>	110/120 AC, 3.1 VA, Flying Leads
<b>S6-30-12-0</b>	12 DC, 2.9 Watt, Spade
<b>S6-30-12-2</b>	12 DC, 2.9 Watt, Flying Leads
<b>S6-30-220-0</b>	220/240 AC, 3.1 VA, Spade
<b>S6-30-220-2</b>	220/240 AC, 3.1 VA, Flying Leads
<b>S6-30-24AC-0</b>	24 AC, 3.1 VA, Spade
<b>S6-30-24AC-2</b>	24 AC, 3.1 VA, Flying Leads
<b>S6-30-24-0</b>	24 DC, 2.9 Watt, Spade
<b>S6-30-24-2</b>	24 DC, 2.9 Watt, Flying Leads

<i>Part Number</i>	<i>Description</i>
<b>Orifice 0.6 mm</b>	
<b>S6-30-12LW-0</b>	12 DC, 0.8 Watt, Spade
<b>S6-30-12LW-2</b>	12 DC, 0.8 Watt, Flying Leads
<b>S6-30-24LW-0</b>	24 DC, 0.8 Watt, Spade
<b>S6-30-24LW-2</b>	24 DC, 0.8 Watt, Flying Leads

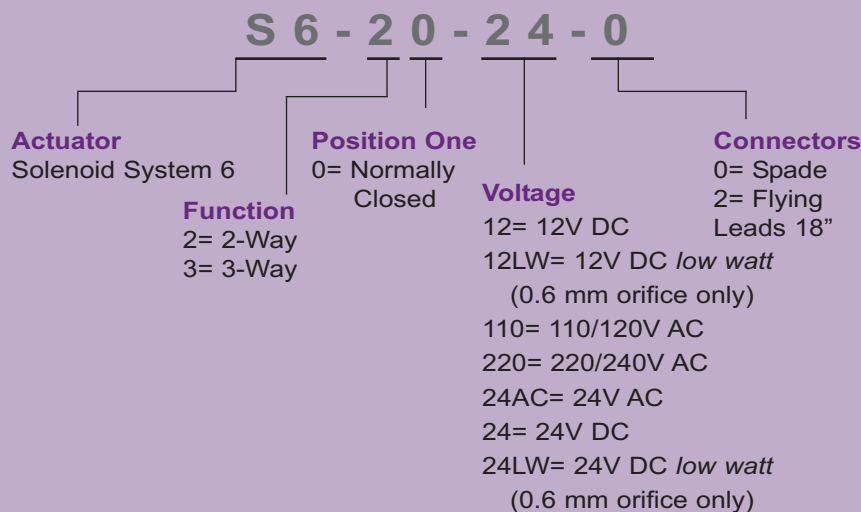
### Accessories

<b>S6-DIN</b>	DIN Connector
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For use with Pneumadyne's System 6 manifolds and bases.  
[See page 129 for product](#) and ordering information



## Product Number Diagram System 6



### Example:

Solenoid System 6, 2-Way, Normally Closed, 24V DC, Spade connectors

## Ordering Information

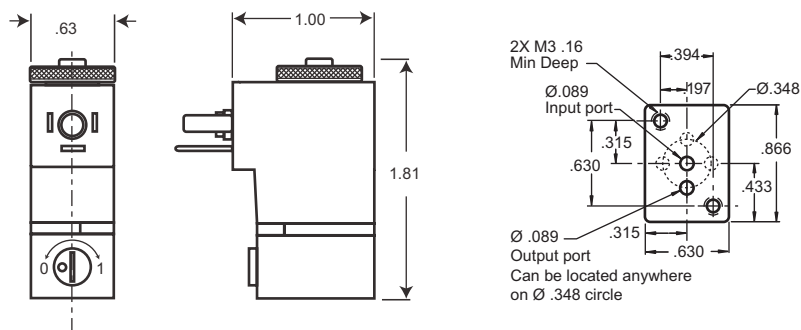
- Solenoid valve and manifold sold separately.
- To order standard product refer to Product Information listing.
- Mounting screws (2) are provided.
- Contact factory for DIN Connector with LED and/or suppression.



A wide variety of voltages is available to fit application specifications

## System 6

### Footprint



- All measurements in inches, unless otherwise specified. When design makes a dimensions critical- contact factory for confirmation. All dimensions shown subject to change without notice.

### Features

- Multiple mounting options
- Independent coil orientation
- Manual override
- 2 & 3-Way normally closed, 3-Way normally open
- DIN connector available
- 6.0 Watt coils



## 2 & 3-Way Solenoid Valves System 8

Pneumadyne's System 8 Solenoid Valves feature a larger orifice for applications requiring higher flow rates. A variety of voltage and mounting options are available to fit system specifications.

Our single base and 2 to 10-station manifolds are convenient solutions for plumbing single or multiple valves. System 8 solenoid valves can be fixed in either direction on the manifold and coil orientation is independent of valve orientation.



System 8 Solenoid Valves feature a larger orifice for applications requiring higher flow rates

### Pneumatic Performance Data System 8

Temperature Range			5°F to 122°F (-15°C to 50°C)			
Orifice/ Function	Operating Pressure	C <sub>v</sub>	Flow Rate (scfm)		Fill Time sec/ in <sup>3</sup> 0-90 psi	Exhaust Time sec/ in <sup>3</sup> 100-10 psi
			50 psi	125 psi		
1.5 mm/ 3WNC / 3WNO	0-150 psi	.074	2.83	6.2	.05	.08
2.5 mm/ 2WNC	0-150 psi	.106	4.10	9.0	.03	N/A

Cv per ANSI / (NFPA) T3.21.3

### Electrical Performance Data System 8

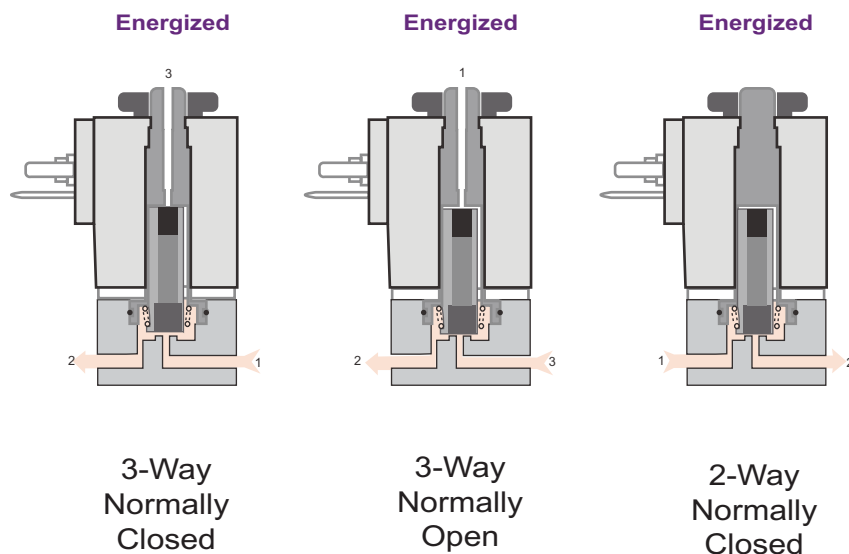
Voltage Tolerance	Response Time Energize	Response Time De-energize	Copper Wire Insulation Class
-10% to 10%	8 ms	9 ms	F 311°F (155°C)

### Materials

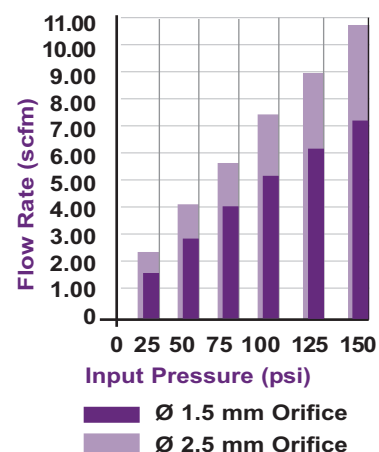
Brass, Enameled Copper, Viton®, Polyimide, Cr-Ni-Steel

## System 8 Solenoid Valve Cross Section

2-Way &amp; 3-Way



System 8 Flow Chart



## Port designation

1	2	3
Input Port	Output Port	Exhaust Port



S8-DIN- Degree of protection according to IEC 529 in attached state: IP 65

Cable outlet can be turned 180°  
Surge suppression available with LED light

Product Number Diagram  
System 8

S 8 - 3 0 - 1 2 - 0

## Actuator

Solenoid System 8

## Function

2= 2-Way  
3= 3-Way

## Position One

0= Normally Closed  
1= Normally Open

## Voltage

12= 12V DC  
110= 110/120V AC  
220= 220/240V AC  
24= 24V DC

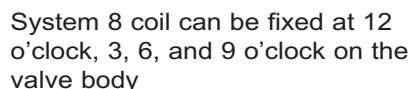
## Connectors

0= Spade

## Example:

Solenoid System 8, 3-Way, Normally Closed, 12V DC, Spade connectors

**2 to 10-station manifolds are convenient solutions for plumbing single or multiple valves**



<b>Part Number</b>	<b>Description</b>
<b>Orifice 1.5 mm</b>	
<b>S8-30-12-0</b>	12 DC, 6.0 Watt
<b>S8-30-24-0</b>	24 DC, 6.0 Watt
<b>S8-30-110-0</b>	110/120 AC, 9.3 VA
<b>S8-30-220-0</b>	220/240 AC, 9.3 VA

<b>Part Number</b>	<b>Description</b>
<b>Orifice 1.5 mm</b>	
<b>S8-31-12-0</b>	12 DC, 6.0 Watt
<b>S8-31-24-0</b>	24 DC, 6.0 Watt
<b>S8-31-110-0</b>	110/120 AC, 9.3 VA
<b>S8-31-220-0</b>	220/240 AC, 9.3 VA

**S8-DIN**      DIN Connector

## System 8

[illegible]

● All measurements in inches, unless otherwise specified. When design makes a dimensions critical- contact factory for confirmation. All dimensions shown subject to change without notice.

- Solenoid valve and manifold sold separately.
- To order standard product refer to Product Information listing.
- Mounting screws (2) are provided.
- Contact factory for DIN Connector with LED and/or suppression.
- EPDM seals are optional. Contact factory for ordering information.