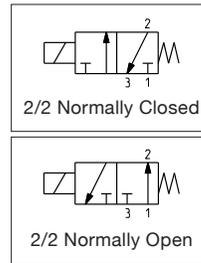


- The 188 Series solenoid valves are designed for use with air and inert gases, and can also be used to pilot other valves or cylinders
- Compact architecture and low power consumption of only 1.3 W make them ideal for portable medical devices
- Also available in a 1 W version for increased versatility
- LED visual indicator and electrical protection circuitry are standard features
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Respiratory Therapy
  - Dental
  - Anesthesia Delivery
  - Industrial Gas Analyzers

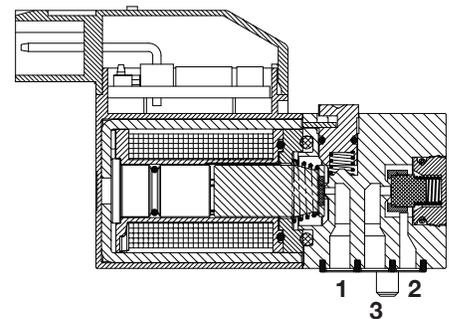


Fluids	Temperature Range	Seal Materials
Air or Inert Gas, non-lubricated <sup>1</sup>	5 °C to 50 °C (41 °F to 122 °F)	NBR (Nitrile)
		FKM

<sup>1</sup> filtered at 25 µm

NOTE: Additional constructions and options are available including alternate elastomers and orifice sizes. Minimum quantities apply.

General Valve Information	
Body	PA (polyamide) MXD6
Seals	NBR (nitrile), FKM (fluoroelastomer) on request
Others	Stainless steel, nickel-plated steel, synthetic material, aluminum
Response Time	< 10ms
Options	Oxygen clean available 300 Series Stainless Steel Body



2/2 NC or 2/2 NO Function  
Pad Mount Body

Electrical Characteristics	
Standard Voltages*	5 VDC, 12 VDC, 24 VDC (-15%/+10%)
Power Consumption	1 - 1.3 W

\* Other voltages on request

NOTE: The solenoid valves are designed for continuous operation within the maximum ambient temperature limits.

Insulation Class	Coil Insulation	Protection	Ambient Temperature Range	Electrical Connection
	°C (°F)		VA	
F	155 (311)	IP40	5 to 50 (41 to 122)	Connector with two 0.5mm <sup>2</sup> lead wires + built-in LED and electrical protection or lead wires, 0.5m (19.7in) long

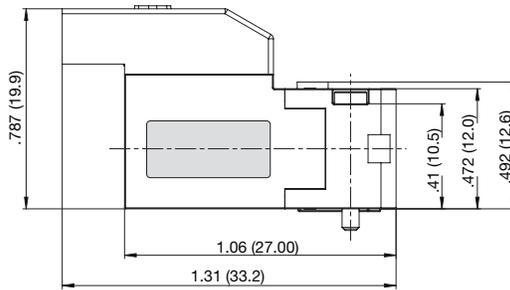
Specifications								
Orifice Size		Flow Coefficient		Pressure Differential bar (psi)		Consumption	Type of Electrical Connection*	Catalog Number
mm (inches)		Kv (m <sup>3</sup> /h)	Cv	min.	max. gases, liquids			
1 → 2	2 → 3							
<b>3/2 NC - Normally Closed</b>								
0.5 (0.020)	0.7 (0.028)	0.12	0.14	0	8 (116)	1.3	01	18801003
							02	18801076
							03	18801074
							04	18801078
							05	18801072
0.8 (0.031)	0.8 (0.031)	0.15	0.17	0	4 (58)	1.3	01	18801081
							02	18801082
							03	18801083
							04	18801084
							05	18801085
1.0 (0.040)	1.0 (0.040)	0.18	0.21	0	2.5 (36)	1.3	01	18801086
							02	18801087
							03	18801088
							04	18801089
							05	18801090
<b>3/2 NO - Normally Open</b>								
0.5 (0.020)	0.5 (0.020)	0.12	0.14	0	6 (87)	1.3	01	18801063
							02	18801077
							03	18801075
							04	18801079
							05	18801073
0.8 (0.031)	0.8 (0.031)	0.15	0.17	0	3 (43.5)	1.3	01	18801091
							02	18801092
							03	18801093
							04	18801094
							05	18801095
1.0 (0.040)	1.5 (0.06)	0.18	0.21	0	1.5 (21.8)	1.3	01	18801096
							02	18801097
							03	18801098
							04	18801099
							05	18801100

\* Type 01, 02, 03, 04 with LED and electrical protection  
 01 = horizontal, width 5.08mm (0.2in)  
 02 = vertical, width 5.08mm (0.2in)

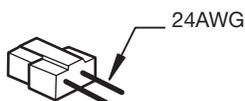
03 = horizontal, width 2.54mm (0.1in)  
 04 = vertical, width 2.54mm (0.1in)  
 05 = cable ends 0.5m long (19.7in), 0.25mm<sup>2</sup>

**Dimensions: mm (inches)**

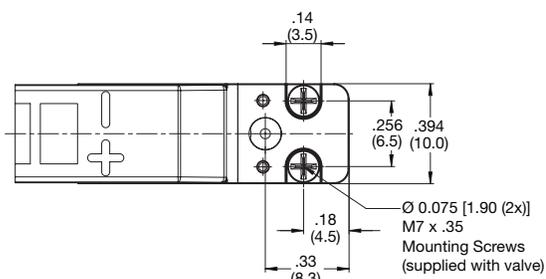
**Dimensional Drawings**



NOTE: The connectors to be ordered separately.  
 Includes one connector with two wires.



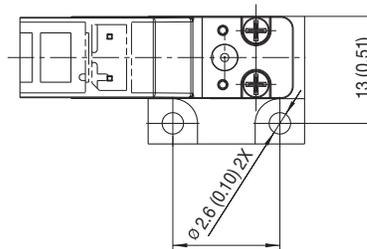
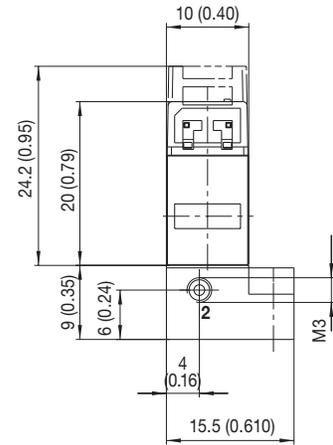
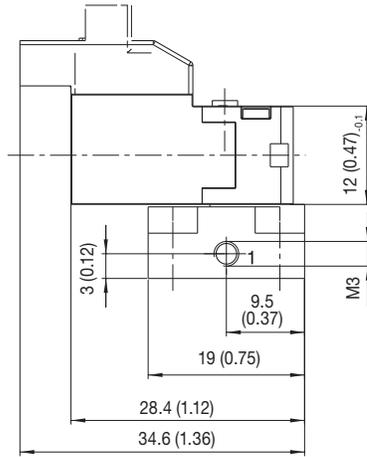
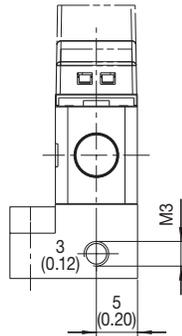
Length	Catalog Number
20" (0.5m)	88118801
59" (1.5m)	88118802
118" (3m)	88118803



## Dimensions: mm (inches)

### Dimensional Drawings

#### Valve Mounted on Single Subbase



Number of Valves	Subbase Catalog Number	Weight
		kg
1	35300101	2.53

#### Manifold Interface

