



TD Series Switching solenoid dump valve

FEATURES

- 2-way Normally Open exhaust valve in a small package size
- Works well in miniature applications such as in Non-Invasive Blood Pressure (NIBP) devices
- Provides small size and low cost
- Offers low holding voltage
- PRO services

MEDIA COMPATIBILITY

Non-corrosive gases

WETTED MATERIALS

Elastomer:

Silicon; nickel-plated steel

Frame:

SPCC (treatment: MFZn2-c)

All other:

Polybutylene Terephthalate (PBT);
304 series stainless steel

ELECTRICAL

Power 0.5 W or less

Voltage 3, 6 or 12 V_{DC}



PHYSICAL PROPERTIES

Operating environment 0 to 45 °C

Storage temperature -25 to 70 °C

Porting 1 port, 0.118 in (3 mm) O.D.,
suitable for 0.078 in I.D., Urethane tubing

Weight 7.7 g (0.27 oz)

Internal volume 0.026 cm³

Filtration None required

Lubrication None required



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PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Vacuum	Orifice sizes / equivalent C_v ¹	Leak rate ²	Response
TD...030...	0...6 psig holding	0...27 "Hg (0...13 psi)	0.030" (0.762 mm) / 0.017 C_v	0.016 sccm (bubble tight)	<100 msec cycling
TD...050...			0.050" (1.270 mm) / 0.035 C_v		

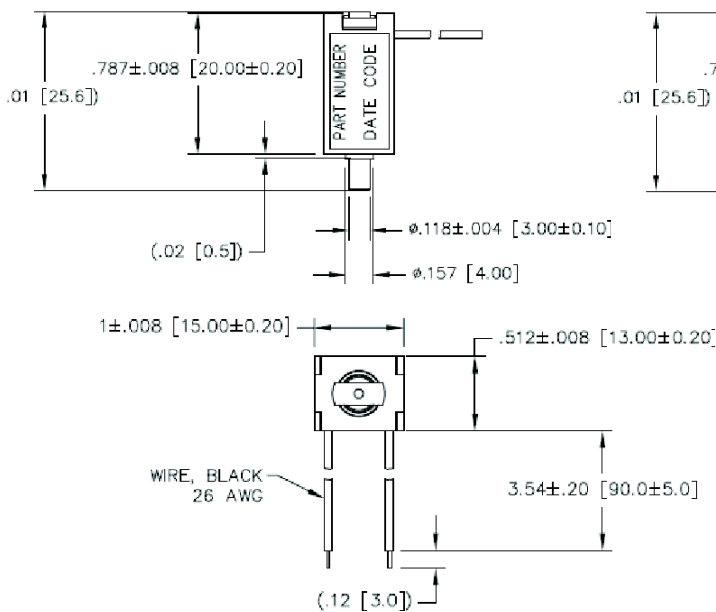
Notes:

¹ The C_v value is the volume flow in US gallons/min under specific flow conditions and describes the relative flow capacity of a valve. The equivalent european measure is the k_v value expressed in m^3/h ($k_v = 0.86 C_v$).

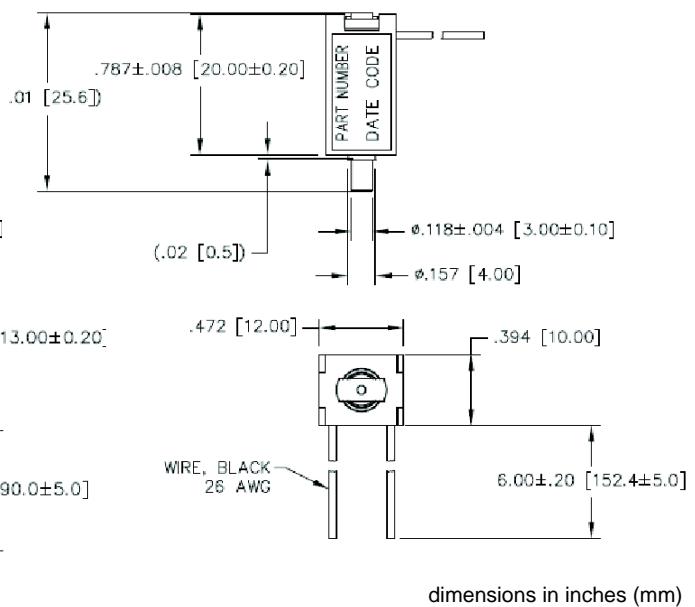
² sccm denotes Standard Cubic Centimeters per Minute. It is a unit for the flow rate at standard conditions of temperature and pressure.

OUTLINE DRAWING

TD...050...



TD...030...



ORDERING INFORMATION

Options	Series	Ways		Pressure		Function		Orifice		Elastomer		Voltage	
	TD	2	2 way	P006	6 psi	P	NO	030	0.030"	S	Silicone	03	3 V _{DC}
								050	0.050"			06	6 V _{DC}
												12	12 V _{DC}
Example:	TD	2		P006		P		030		S		06	

PRO services:

- Extended warranty period of 2 years
- Advanced logistics models for supply inventory and short delivery times
- Technical support through application engineers on the phone or at your site
- Fastest possible technical response for design and QA engineers
- ... plus other services on request

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