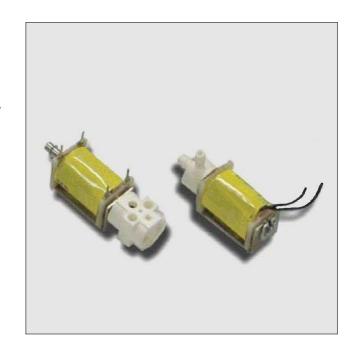




FEATURES

- 2-way or 3-way, 2 position valve (NO, NC & Distributor)
- Meets performance characteristics for a minimum of 25 million cycles
- Cost-effective, unique PBT body
- Manifold mount design or molded barbed fittings to fit a range of needs
- · PRO services



PHYSICAL PROPERTIES

MEDIA COMPATIBILITY

302 series stainless steel; Loctite® 290

Body:

Non-corrosive gases Operating environment 0 to 70 °C

Storage temperature -40 to 70 °C WETTED MATERIALS

Length 43.9 mm (1.73 in)

PBT (Polybutylene Terephthalate) Width 15.9 mm (0.625 in)

Stem base: Height 17 mm (0.67 in)

All others: Porting Barb fittings for 1/8 in I.D. tubing

FKM; 430 FR series stainless steel (passivated); or manifold mount

Weight 34 g (1.2 oz)

ELECTRICAL Internal volume 0.016 cm³ (nominal)

Power 0.5, 1.0 or 2.0 W Filtration (recommended) 40 µm

Voltage 5, 12, 24 $V_{DC} \pm 10\%$ Lubrication None required

Loctite® is a registered trademark of Henkel Consumer Adhesives, Inc.



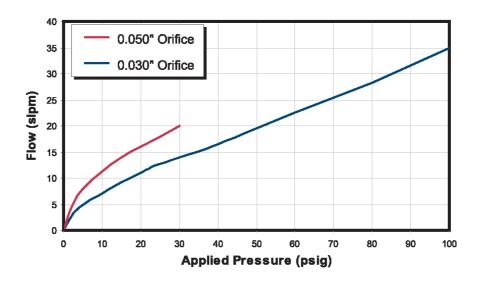
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PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Vacuum	Orifice sizes/ Equivalent C _v ¹	Power	Leak rate ²	Response		
TQP100	0100 psig			2 W				
TQP050	050 psig		0.030" (0.762 mm)/ 0.017 C _v	1 W				
TQP025	025 psig	027 "Hg	0.0 T 0 _V	0.5 W	<0.2 acom	<30 msec		
TQP030	030 psig	(013 psi)		2 W	≤0.2 sccm	cycling		
TQP015	015 psig		0.050" (1.270 mm)/ 0.035 C _v	1 W				
TQP006	06 psig		0.000 O _V	0.5 W				

FLOW CURVES (typical air flow)³



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. 1000 sccm = 1 slpm.
- 3. slpm denotes Standard Liters per Minute. It is a unit for the flow rate at standard conditions of temperature and pressure.

 1 slpm = 1000 sccm.

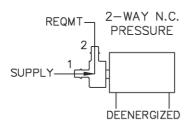
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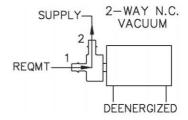


VALVE TYPE

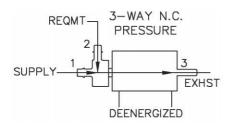
2 way NC



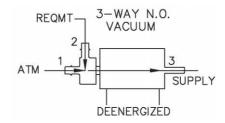


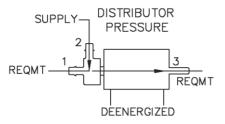


3 way NC or distributor

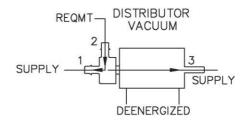




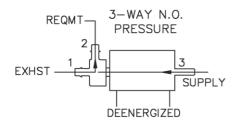




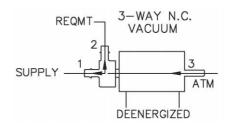




3 way NO





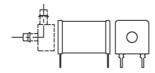


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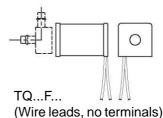




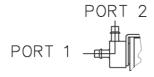
ELECTRICAL CONNECTION



TQ...P... (PC mount, 4 PC pins)



PNEUMATIC CONNECTION - BODY



TQ...8... (1/8" I.D. tubing)



TQ...0... (Manifold mount)

PNEUMATIC CONNECTION - STEM



TQ...0 (Top seat, plugged)



TQ...8 (0.125" top seat, 1/8" I.D. tubing)

ORDERING INFORMATION

	Series	Ways		Pressure		Function		Elastomer		Voltage		Electrical		Pneumatic connection				
	Series	,	ivays	FIE	SSUIE	Fui	i unction		Liastoniei		voltage		Electrical		Body		Stem	
Options	TQ	2	2 way	P006	6 psi	C*	NC	٧	Viton (FKM)	05	5 V _{DC}	F	Wire leads	0	no barbs	0	none	
		3	3 way	P015	15 psi	Р	NO			12	12 V _{DC}	Р	PC board	8	1/8" barbs	8	1/8" barbs	
				P025	25 psi					24	24 V _{DC}		mount					
				P030	30 psi													
				P050	50 psi													
				P100	100 psi													
* 3 way NC version can also be used as distributor																		
Example:	TQ	3		P030		С		٧		12		Р		8		8		

Note: Not all combinations might be available. Please contact First Sensor.

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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