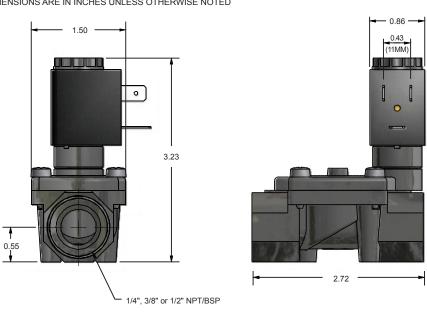
Series 3580



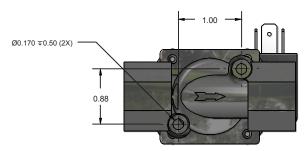
The Spartan Scientific 3580 is an engineered composite 2 way, 2 position solenoid/air operated valve designed for the control of liquid media and inert gas. The valve exhibits a large 1/2" orifice and three port sizes standard, 1/4", 3/8" and 1/2" NPT. The normally open version of the 3580 has a unique operator that allows for function without the use of a bypass tube as with the 3510 and has a push nonlocking and a turn-lock manual override. There is no override available on the normally closed version of this valve. The valve's compact design utilizes the latest in material sciences with the use of composite materials in the valve body. The solenoid pilot is power saving low wattage, made of stainless steel working components and is miniaturized to fit in tight places. Standard elastomers available are Viton, Nitrile, and EPDM. The fully encapsulated coils are available in all standard voltages and with spaded, flying leads or with a connector attached. Typical applications are for installations where there is a need to control inert fluids and gases, condensate drainage, hot water plumbing and sprinkler systems.

Dimensional Data

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED







Technical Data

Function: 2-way, 2-position normally open, or normally closed,

internal pilot diaphragm, solenoid operated

Port Sizes: 1/4", 3/8", 1/2" NPT or 1/2" BSPT on request

Orifice Sizes: 1/2" (12.5mm)

Pressure Range: 7 - 150 psi (requires minimum sealing pressure)

Flow Factors: 1/4" NPT 1.55 Cv 3/8" NPT 1.95 Cv

1/2" NPT 2.45 Cv

(Fluid max. +90°C) Ambient -10° to +50°C Temperature Range:

Response Time: 20 to 80 MS Complete cycle

Operator: 400 and 300 Series Stainless Steel or Brass Valve Body - Dupont Zytel® 77G33 Glass Filled Nylon Materials:

NSF approved, PPS Seals: Viton, Nitrile, EPDM

Shading Ring - Copper Particulate Screen - 50 Mesh Stainless Steel

Media: Air, oil, water, inert gas

Glass filled nylon encapsulation Coil Data:

(Class F, continuous duty) 6.5W VDC, 8.5VA VAC Volts: 6, 12, 24 VDC 24, 120, 220, 240 VAC 50/60 Hz

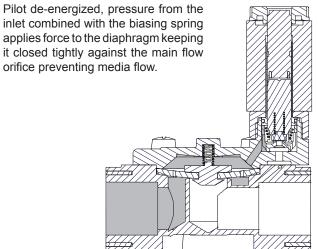
Voltage tolerance: +/- 10%



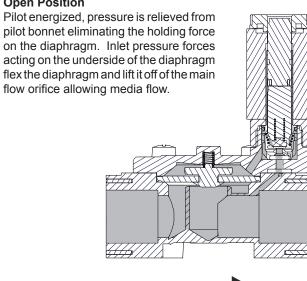
Series 3580

Principle of Operation

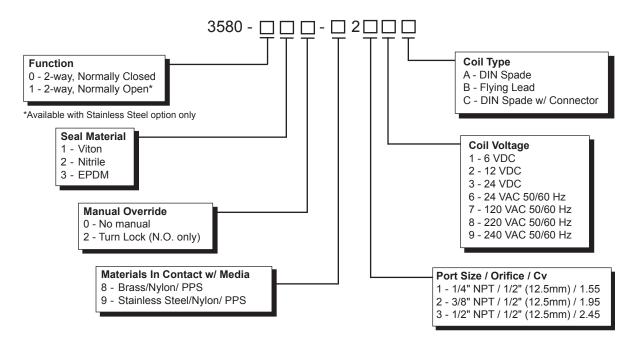
Closed Position



Open Position



How To Order



Note: Normally Closed Version Shown

Order Example: 3580-010-8211A

Series 3580, 2-way, Normally Closed, Viton, No Manual, Brass / Nylon / PPS, 1/4" NPT, 6 VDC, DIN Spade