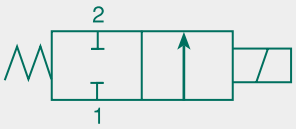
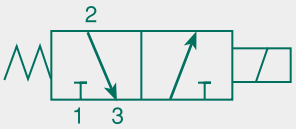
numatics®

S Series

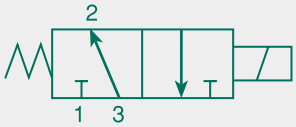
2-way
Normally closed



3-way
Normally closed



3-way
Normally open

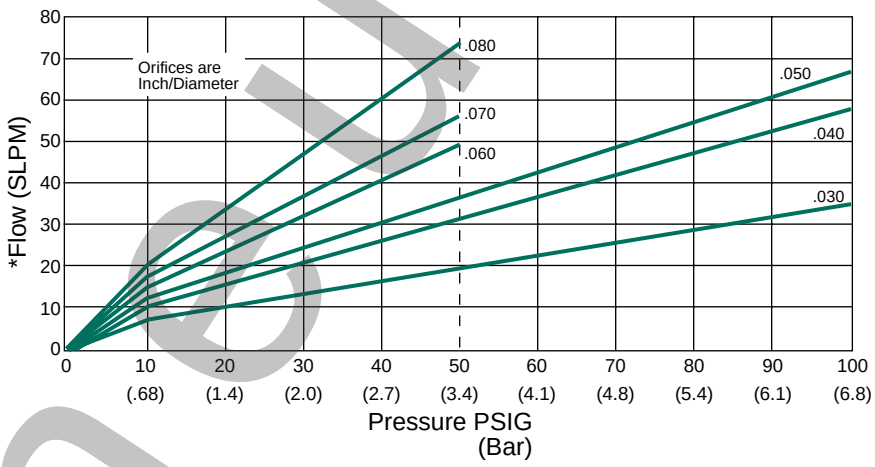


"S" Series Miniature

Stainless Steel Valve

- Tested in excess of 500 Million cycles
- Maximum leakage rate: 0.016 SCCM (Bubble Tight)
- Temperature range: -10˚F to 150˚F (-23˚C to 66˚C)
- Class "A" Insulated coils
- All valves 100% factory tested
- #20 AWG & #24 AWG Teflon insulated lead wires
- Tin plated brass .110 x .020 Fast-on terminals
- 10 m (Micron) filtration recommended
- Response time < .010 Seconds
- All valves rated to 28" Hg. Vac
- Oxygen Clean available
- Recommended for use with dry air, lubricated air, vacuum, non-corrosive, non-toxic, non-flammable dry gases.
- Consult factory for other service applications.

Technical Data



*Flow (SLPM) Standard liters per minute port 1–>2. (Normally closed)
NOTE: Flow tests are based on average readings and nominal components.
All Outlets are vented to atmosphere. Results may vary.

VALVE SERIES	WATTAGE	ORIFICE		CV	MAXIMUM PRESSURE N.C.		N.O.	
LS	0.65 watt	0.030	(0.75)	0.025	100 PSI	(6.8)	50 PSI	(3.4)
HS	1.5 watt	0.030	(0.75)	0.025	100 PSI	(6.8)	100 PSI	(6.8)
	1.5 watt	0.040	(1.00)	0.035	100 PSI	(6.8)	50 PSI	(3.4)
	1.5 watt	0.050	(1.25)	0.055	100 PSI	(6.8)	50 PSI	(3.4)
	1.5 watt	0.060	(1.50)	0.065	50 PSI	(3.4)	50 PSI	(3.4)
	1.5 watt	0.070	(1.80)	0.075	50 PSI	(3.4)	50 PSI	(3.4)
	1.5 watt	0.080	(2.00)	0.100	50 PSI	(3.4)	50 PSI	(3.4)

Numbers in parentheses ( ) equivalent to Millimeters or BAR where applicable.

How to Order

H S 0 3 M 7 H 0 0 B

Power
H = High Power Coil 1.5 W
L = Low Power Coil 0.65 W

Service
S = Standard valve
O = Oxygen Cleaned

Port Threads
O = Standard l0-32 Stud
M = Metric M5 Stud
N = 1/8" NPT (mounting option "C")

Configuration
2 = 2 Way Valve
3 = 3 Way Valve

Mounting
L = Line Mounted
M = Manifold Mounted (10-32 stud only)
C = Cylinder Mounted (10-32 , 0.030 orifice only)

Voltages
1 = 120 VAC 50/60 Hz
2 = 230 VAC 50/60 Hz
3 = 24 VAC 50/60 Hz
4 = 5 VDC
5 = 6 VDC
6 = 12 VDC
7 = 24 VDC
(Rectified Only)

Seal Material
B = Buna-N (Std.)
V = Viton
E = EPR
N = Neoprene

Port No. 3
0 = 0.40 (1.00) Std.
1 = 0.50 (1.25)

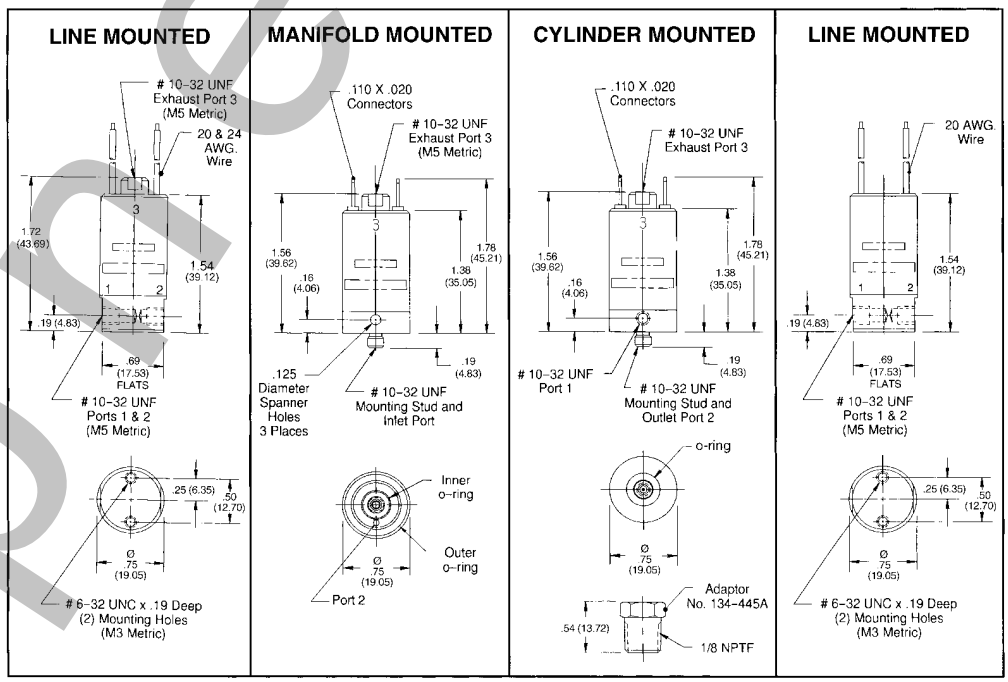
Port No. 1
0 = 0.030 (0.75) Std.
1 = 0.040 (1.00)
2 = 0.050 (1.25)
3 = 0.060 (1.50)
4 = 0.070 (1.80)
5 = 0.080 (2.00)

Connectors
H = Hardwire (12"/ 20 AWG)
F = 0.110 Faston
S = Hardwire (12" / 24 AWG).

Consult chart (*page 339*) for allowable combinations of wattage orifice size, and pressure range.

Dimensions

3-Way 2-Way

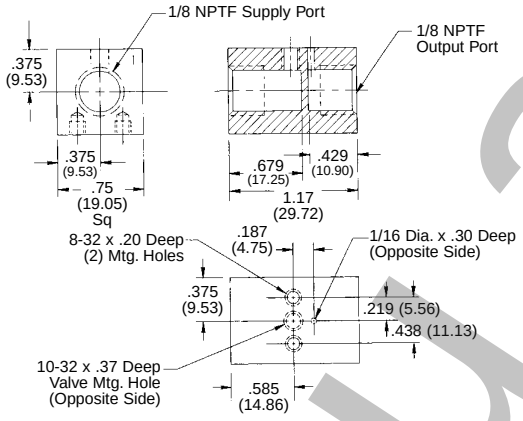


Numbers in parentheses ( ) equivalent to Millimeters or BAR where applicable.

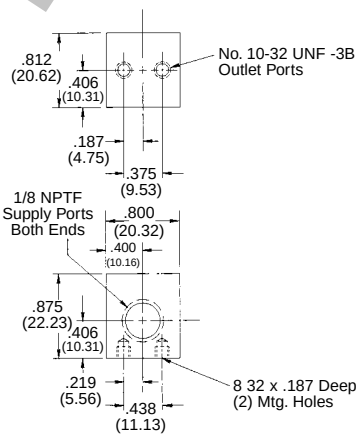
Manifold Dimensions and Part Numbers (Manifold Mount)

PART NUMBER	NO. OF STATIONS	A	B
106-423	1	1.175	N/A
106-410	2	0.812	N/A
106-411	4	1.593	N/A
106-422	6	2.375 (60.33)	0.845 (21.46)
106-412	8	3.156 (80.16)	1.625 (41.28)
106-413	10	3.937 (99.99)	2.406 (61.11)
106-414	12	4.718 (119.84)	3.187 (80.95)

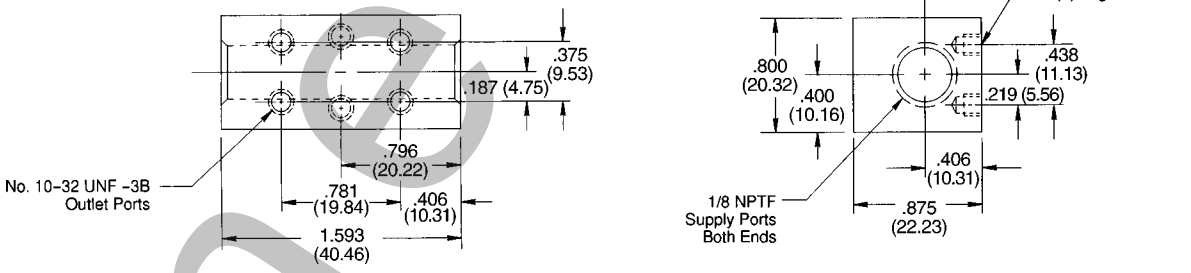
SINGLE STATION MANIFOLD
No. 106-423



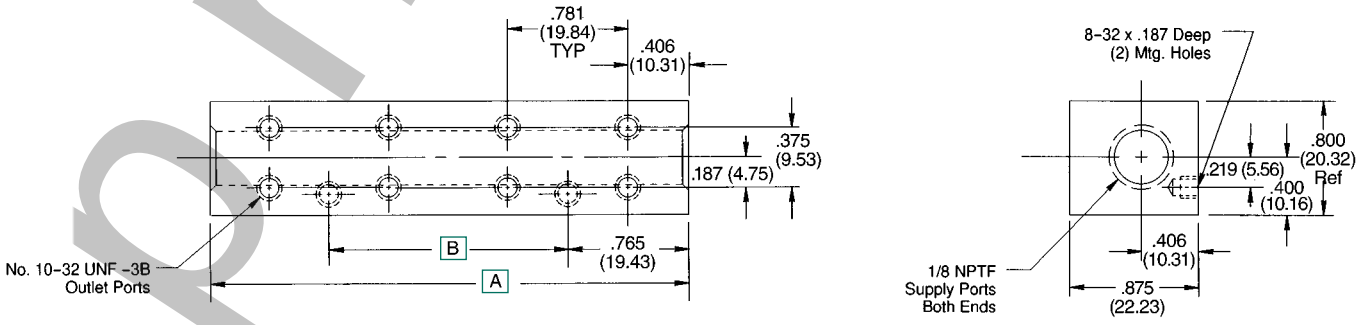
2-STATION MANIFOLD
No. 106-410



4-STATION MANIFOLD No. 106-411



MULTI-STATION MANIFOLD



Numbers in parentheses ( ) equivalent to Millimeters or BAR where applicable.