

The 3953 contains all the features of the Series 3853 but can be stacked into a multiple output bank of solenoid valves. The Series 3953 features a fully encapsulated coil, spring compensated plunger seats for long life and a miniature stackable composite valve body. The advantage to this design is the versatility to stock single units

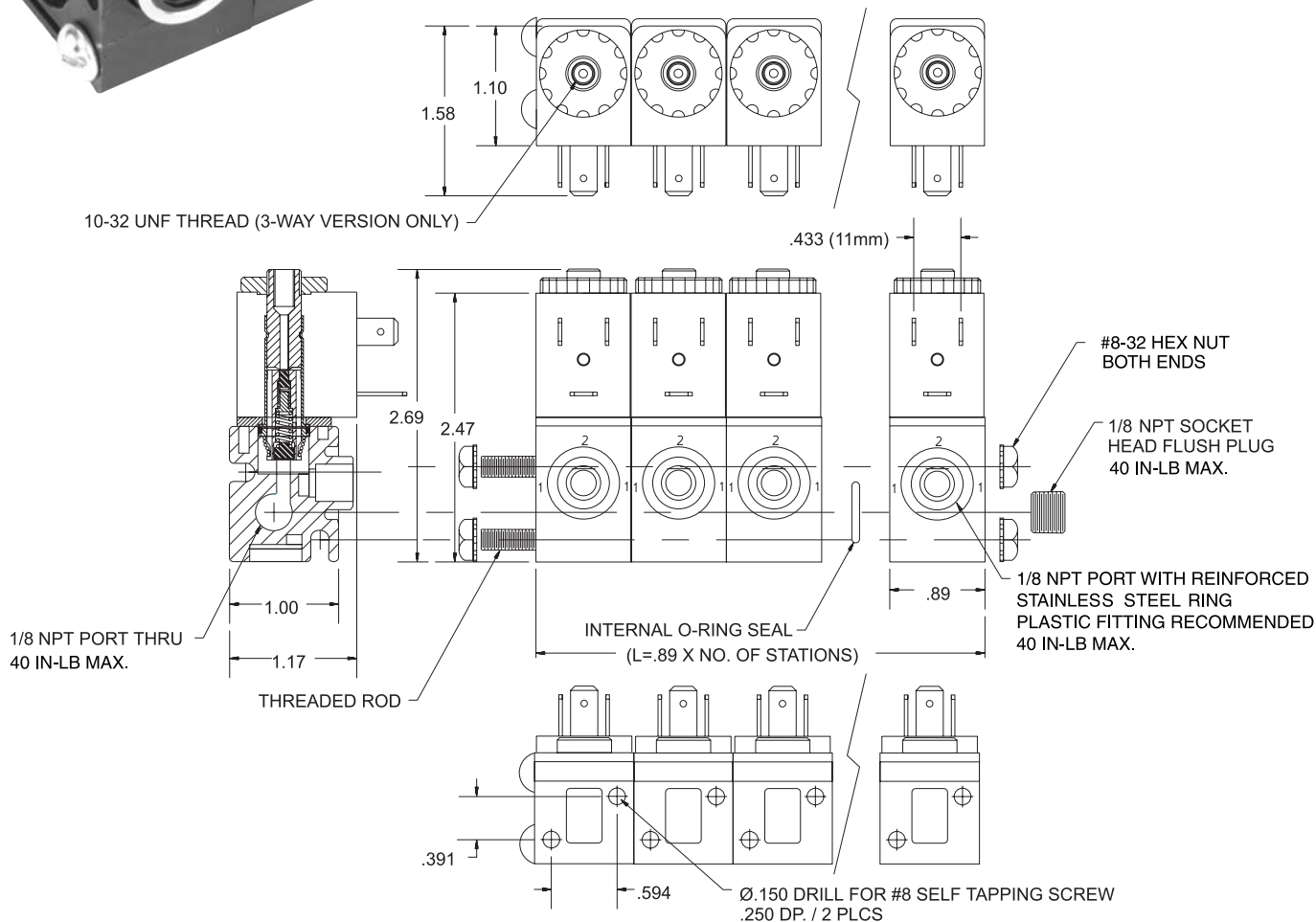
and build, mix and match to meet specifications. In most cases the Series 3953 reduces inventory costs and lowers cost per installation over conventional manifold valve series. The coils are available with DIN quick connect pin out or flying leads.

Dimensional Data



Features

- Chemical compatibility
- Direct poppet actuation
- Composite valve body
- Available 2 or 3-way
- Stock components to build desired number of outlets reduces inventory costs
- Vacuum holding & flow applications
- Pressure to 270 psi
- DIN spades or flying leads
- Single inlet with multiple outlets (3/2 NC only)



Technical Data

Function: 2-way, 2 position and 3-way, 2 position
direct acting, normally closed

Port Sizes: 1/8" NPT

**Orifice Sizes/
Flow Factor:**

0.6 mm / .025 Cv
1.0 mm / .05 Cv
1.2 mm / .065 Cv
1.5 mm / .08 Cv
2.0 mm / .17 Cv
2.4 mm / .24 Cv
3.0 mm / .31 Cv

F
U
N
C
T
I
O
N

ORIFICE SIZE / VOLTAGE

	0.6 mm		1.0 mm		1.2 mm		1.5 mm		2.0 mm		2.4 mm		3.0 mm	
	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
2/2 NC	270	270	250	250	250	250	250	250	250	250	200	200	75	60
3/2 NC	250	250	200	200	180	180	160	150	N/A	N/A	N/A	N/A	N/A	N/A

MAX. PRESSURE RANGE

Pressure Range: 0-270 PSI (depending on orifice size and function)

Temp. Range: (Media 90°C max.) Ambient - 10 to +50°C

Response Time: 12-14 ms complete cycle

Materials: Operator: 400 Series Stainless and Brass (400 and 300 Stainless optional)
Shading Ring: Copper
Springs: 300 Series Stainless
Seals: Viton standard (other materials available on request)
Valve Body: DuPont Zytel FE 5105. FDA Approved

Media: Air, oil, inert gas, water, caustics, etc.

Mounting: Ø.150" drill, .250" deep for #8 self tapping screw

Coil Data: Glass filled nylon encapsulation (Class F, continuous duty)
DIN spades (11 mm centers) or flying leads – 22 ga. wire w/PVC insulation – 18" long
5 watt Standard (other wattages on request)
All standard industrial voltages
Voltage Tolerance: +/- 10%
Connectors available for DIN Spades – see page bottom for part numbers.

How To Order

3953 – O □ – □ □ □ □

Seat Material
O - Viton

Orifice / Pressure / Wattage / Cv / NC/NO
1 - 0.6 mm / 250 PSI* / 5.0 w / .025 / NC†
2 - 1.0 mm / 200 PSI* / 5.0 w / .05 / NC†
3 - 1.2 mm / 180 PSI* / 5.0 w / .065 / NC†
4 - 1.5 mm / 150 PSI* / 5.0 w / .08 / NC
5 - 2.0 mm / – / 5.0 w / .17 / NC†
6 - 2.4 mm / – / 5.0 w / .24 / NC†
7 - 3.0 mm / – / 5.0 w / .31 / NC†

Materials in Contact with Media
A - Brass / Nylon
B - Stainless Steel / Nylon

Function
2 - 2-way
3 - 3-way

Voltage

2 - 12 VDC
3 - 24 VDC
7 - 120 VAC / 50/60 Hz
8 - 240 VAC / 50/60 Hz
B - 12 VDC Flying Lead
C - 24 VDC Flying Lead
G - 120 VAC / 50/60 Hz Flying Lead 5
I - 240 VAC / 50/60 Hz Flying Lead0

Stations

1 - 1 Station
2 - 2 Stations
3 - 3 Stations
4 - 4 Stations
5 - 5 Stations
6 - 6 Stations

† Not Available in all functions

*NOTE: Pressure ratings, if shown, are for 3/2 NC valve with DC voltage

Connectors for DIN Spades (11 mm centers):

P/N 122-09-N Black housing - No LED

P/N 122-09-T-A.1-Voltage . . Transparent housing and LED