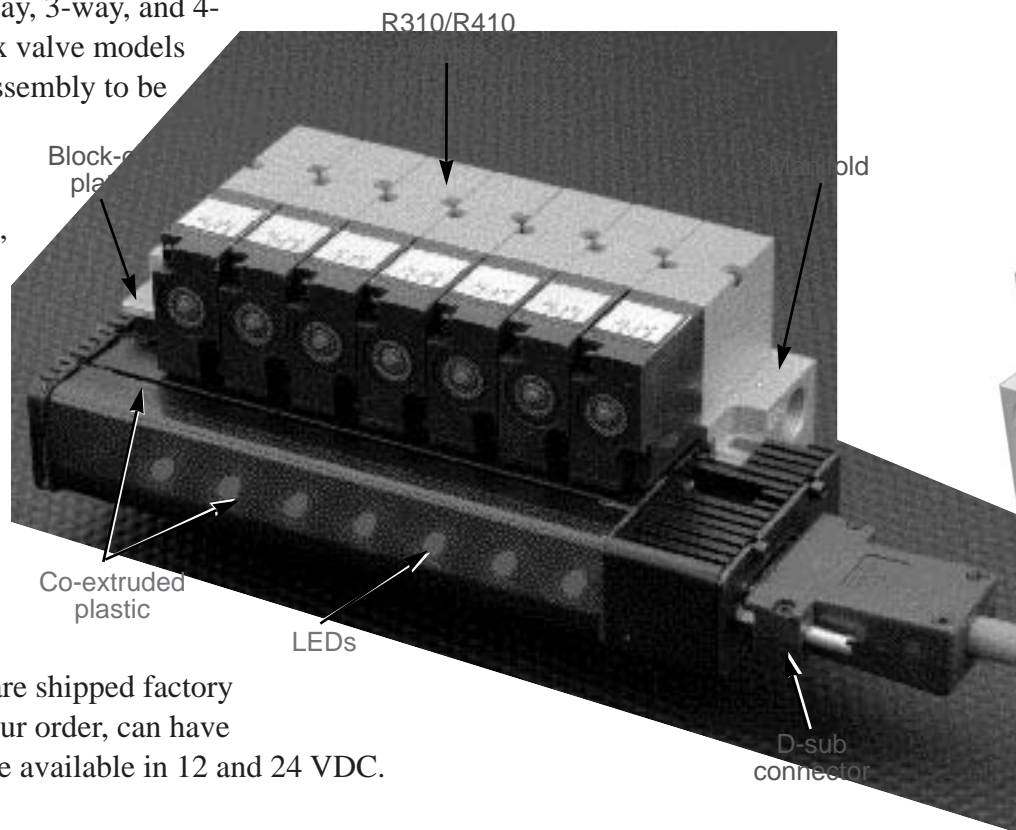


RACEWAY

- ▶ The R310/R410 manifold raceway assembly is made up of a manifold, a raceway, and valves. The manifold raceway assembly is available as a NEMA 4 rated assembly and is factory tested for sealing integrity.
- ▶ The raceway is one piece of co-extruded plastic enclosing an integral printed circuit board. The integral printed circuit board eliminates bulky wiring associated with other raceway systems. The circuit board has a surge suppression diode, LED, and reverse polarity protection for each station. The LED's are visible through the red, transparent part of the raceway.
- ▶ The valves are available in 2-way, 3-way, and 4-way models. The ability to mix valve models allows the manifold raceway assembly to be very flexible in meeting your specific needs. A non-locking manual override is standard on prefix "R" valves. Prefix "RN" valves are available only without manual override.
- ▶ The manifold is a rugged piece of extruded aluminum that is anodized for corrosion resistance. Also, all ports are available in metric sizes.
- ▶ Manifold raceway assemblies are shipped factory pre-assembled, according to your order, can have from four to 16 stations, and are available in 12 and 24 VDC.
- ▶ The manifold raceway assembly interfaces with your equipment using a D-sub connector. All NEMA 4 assemblies have a 25-pin D-sub connector regardless of the number of stations (4 to 16). The chart below lists the breakdown of D-sub connector availability:

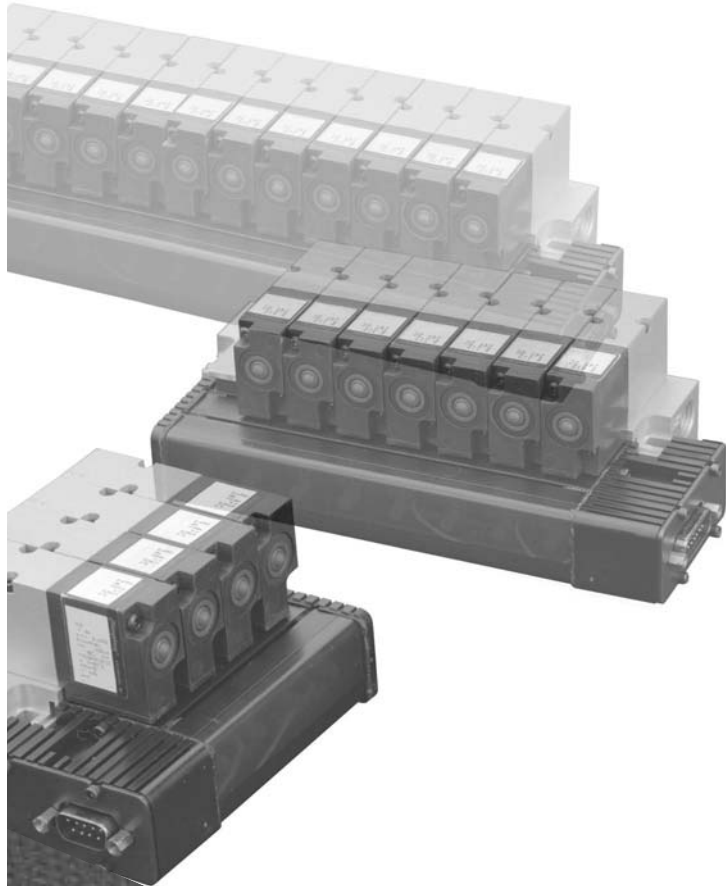


D-Sub connector	Number of stations
9 pin	4, 5, 6
15 pin	7, 8, 9, 10, 11, 12
25 pin	13, 14, 15, 16

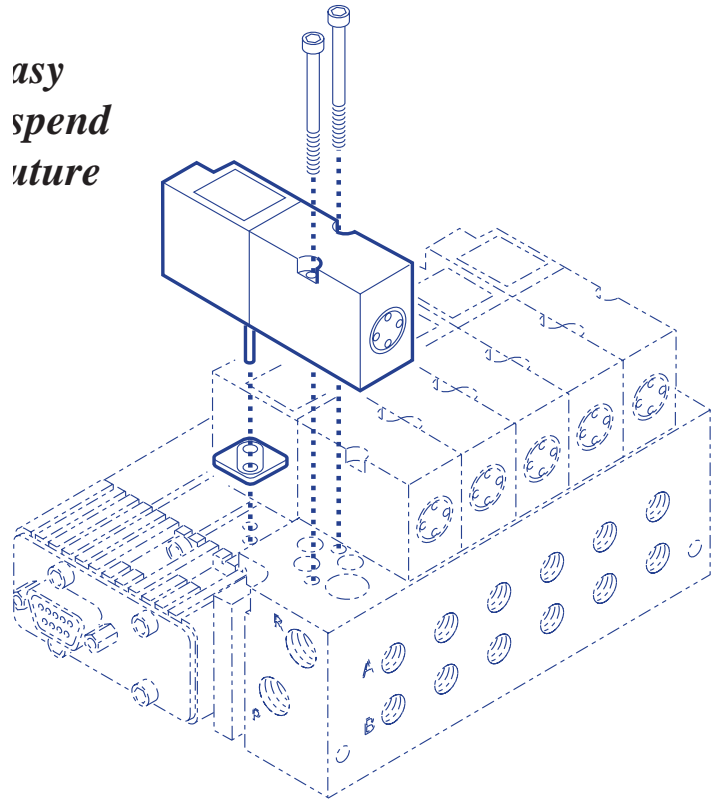
- ▶ Manifold raceway's are tested and fully operational when shipped, simply plumb the manifold, plug in the D-sub connector, and you're ready to go.

R310/R410

RACEWAY



easy
install
structure

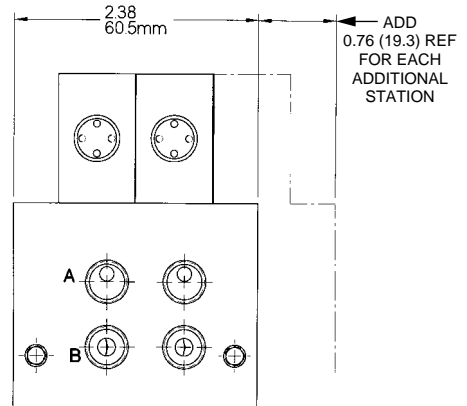
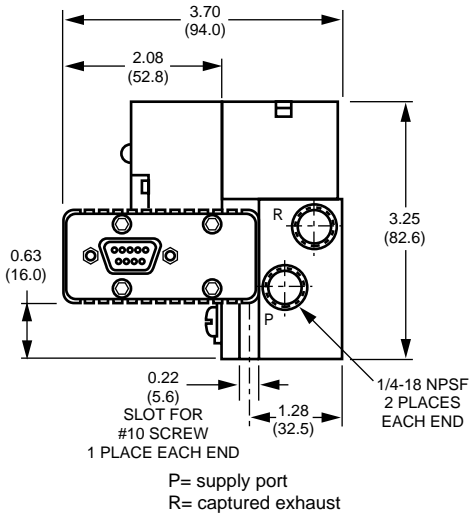


Weight
Raceway materials

Weight, plus .49 lb. per station
Rigid PVC, nylon, steel, buna

OPERATIONS

- (0 - 8.5 bar)
- (prefix "V" 3-way and all 4-way models)
- F (0° to 50° C)
- C internal circuitry not grounded to manifold.



Delivery ports: A= normally closed
B= normally open

inch (mm)

R310/R410

RACEWAY

HOW TO ORDER

Unless specified otherwise the D-sub connector is located on the left end of the manifold (as viewed with the delivery ports facing you). Valve station number one will always be that station closest to the D-sub connector. Order manifolds first. Order the valves next with station position requested. Remember, option codes marked STD and NA are not used as part of the model number. All other options must be specified when ordering.

MANIFOLDS

MODEL	DESCRIPTION
RM *	D-sub connector on left side (standard)
RM * R	D-sub connector on right side
RM * N	D-sub connector on left side (standard)-NEMA 4
RM * NR	D-sub connector on right side-NEMA 4

* Specify number of stations (4 minimum, up to 16 maximum).

To order metric ports include E as a model number prefix, example ERM-7-R.

Include SA (ship assembled) as a model number suffix, example RM-7-R-SA.

VALVES

MODEL	OPTION DESCRIPTION						
	FLOW CONTROL	LOCKING MANUAL OVERRIDE	NO OVERRIDE	FLUORO-ELASTOMER	NON-LOCKING MANUAL OVERRIDE	SHIP ASSEMBLED	VOLTAGE
Option Code	70	81	87	VAI			
R310 (3-way plug-in)	NA	SP	SP	SP	STD	SA	12 / 24 VDC
R410 (4-way plug-in)	SP	SP	SP	SP	STD	SA	12 / 24 VDC
RN310 (3-way plug-in, NEMA 4)	NA	NA	STD	SP	NA	SA	12 / 24 VDC
RN410 (4-way plug-in, NEMA 4)	SP	NA	STD	SP	NA	SA	12 / 24 VDC

• STD = Standard • N/A = Not available • SP = Specify (additional charges for this option)

Consult the Humphrey Pneumatic Valves catalog for complete specifications on 310/410 Series Air Valves.

ORDER EXAMPLES

One, four station manifold assembly consisting of:

- 1 RM-4-SA
- 2 R310-SA 24VDC - Assy on Sta 1 & 2
- 1 R410-SA 24VDC - Assy on Sta 3
- 1 R410-70-SA 24VDC - Assy on Sta 4

Three, six station manifold assemblies consisting of:

- 3 RM-6-NR-SA
- 9 RN310-VAI-SA 12VDC - Assy on Sta 1, 2 & 3
- 9 RN410-VAI-SA 12VDC - Assy on Sta 4, 5 & 6

D-SUB CABLES

MODEL	DESCRIPTION	NUMBER OF S'
DS9	9-pin D-sub cable (120 in.)	4, 5, 6.
DS15	15-pin D-sub cable (120 in.)	7, 8, 9, 10, 11, 1
DS25	25-pin D-sub cable (120 in.)	13, 14, 15, 16
DS25N	25-pin D-sub NEMA 4 cable (120 in.)	4 thru 16

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