

H110, H180 Valves

H110-4E1(2), HA110-4E1(2), H113-4E2, HA113-4E2, H180-4E1(2), HA180-4E1(2), H183-4E2, HA183-4E2

H110 and H180 Series Indirect-Acting Solenoid, directional control valves achieve 0.23 and 0.57 Cv flow capacity in a 15mm and 18mm width. These valves are a popular choice for operating medium size cylinders, up to 2.5" bore. Low (1.6 Watt) power consumption solenoids are standard. Valves are available as inline, subbase mount, or as manifold mount.

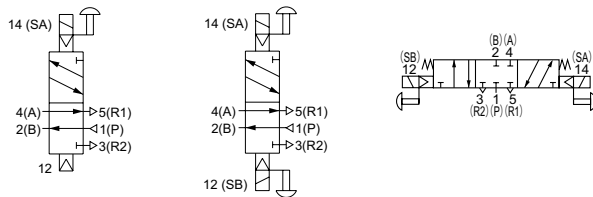
2-, 3- or 4-way models available as inline valves or manifold mount on two manifold configurations, A or F type.

Base Models

- 4-Way, Single Solenoid, Inline (H110-4E1, H180-4E1)
- 4-Way, Double Solenoid, Inline (H110-4E2, H180-4E2)
- 3-Position, 4-Way, Inline (H113-4E2, H183-4E2)
- 4-Way, Single Solenoid, Manifold Mount (HA110-4E1)
- 4-Way, Single Solenoid, Inline or Manifold Mount (HA180-4E1)
- 4-Way, Double Solenoid, Inline or Manifold Mount (HA110-4E2, HA180-4E2)
- 3-Position, 4-Way, Inline or Manifold Mount (HA113-4E2, HA183-4E2)

Features and Benefits

- Compact 15mm and 18mm size.
- Low power consumption.
- High flow.
- Quiet operation. No AC hum.
- Manual override standard.
- Grommet, plug-in and DIN type electrical connector – standard.



Base Model	Nominal Dimensions (inch)		
	L	H	W
H(A)110__ single solenoid	3.18	0.95	0.59
H(A)110__ double solenoid	4.66		
H(A)113__ 3-position	5.14	0.95	0.71
H(A)180__ single solenoid	3.81		
H(A)180__ double solenoid	5.31		
H(A)183__ 3-position	5.93		



H110-4E1



H180-4E1

SPECIFICATIONS

Design Principle:	Pressure Balanced – Air Return	Temperature Range:	41°F to 122°F
Porting Type:	4-Way (2- and 3-Way available for manifold)	Flow @100 PSIG:	H110: 14 CFM, 396 LPM (Cv=0.2) H180: 33 CFM, 934 LPM (Cv=0.6)
Port Size:	H110: 10-32 UNF; H180: 1/8 PIPE	Power:	1.6 W
Media:	Air	Available Voltages:	12VDC, 24VDC, 24VAC, 120VAC, 240VAC
Pressure Range:	22–102 PSIG		

AVAILABLE VALVE TYPES – H110 AND H180 SERIES ... CONSULT WEBSITE FOR MODEL NUMBERS

For Direct Piping, or F Type Manifold:

- Normally closed, single solenoid, 2-way
- Normally open, single solenoid, 2-way
- Normally closed, single solenoid, 3-way
- Normally open, single solenoid, 3-way
- 2-position, single solenoid, 4-way
- 2-position, double solenoid, 4-way
- 3-position, 4-way, closed center
- 3-position, 4-way, exhaust center
- 3-position, 4-way, pressure center

For Base Piping, or A-Type Manifolds:

- Normally closed, single solenoid, 2-way
- Normally open, single solenoid, 2-way
- Normally closed, single solenoid, 3-way
- Normally open, single solenoid, 3-way
- 2-position, single solenoid, 4-way
- 2-position, double solenoid, 4-way
- 3-position, 4-way, closed center
- 3-position, 4-way, exhaust center
- 3-position, 4-way, pressure center



HA110 Series on H110M4A Manifold



H180 Series on H180M4F Manifold

Manifold Types Available	Overall Size (valves not mounted)	Nominal Dimensions (inch)		
		L	H	D
A Type (H110M_A, H180M_A): Extruded Aluminum. Delivery ports 2 and 4 located on manifold. Accepts HA110 (HA180) valve models.	Two Station (___M2A)	1.89 (2.25)	1.38 (1.58)	2.09 (2.92)
	Each Additional station	0.63 (0.75)		
	Max # of stations	20		
F Type (H110M_F, H180M_F): Extruded Aluminum. Delivery ports 2 and 4 located on valve. Accepts H110 (H180) valve models.	Two Station (___M2F)	1.89 (2.25)	0.71 (0.99)	1.81 (2.29)
	Each Additional station	0.63 (0.75)		
	Max # of stations	20		

Consult website for exact dimensions and additional manifold configurations.

How To Order Valves & Manifolds...Pages 104 & 106

HOW TO OBTAIN VALVE SPECIFICATIONS

- ☞ Visit www.humphrey-products.com and select "Online Product Guide."
- From the search options provided, choose the valve you want and the details for that product.
- Once completed, select "Spec Sheet" to create a PDF of the valve, which you may save and print at your convenience.

HOW TO FIND A DISTRIBUTOR

- ☞ Visit www.humphrey-products.com, select "Find A Distributor," and input your information to locate a distributor nearest you.
- Or, call Customer Service at 1-800-477-8707 for the name and phone number of your local distributor.

HUMPHREY PRODUCTS ARE SOLD WORLD-WIDE THROUGH AUTHORIZED DISTRIBUTORS