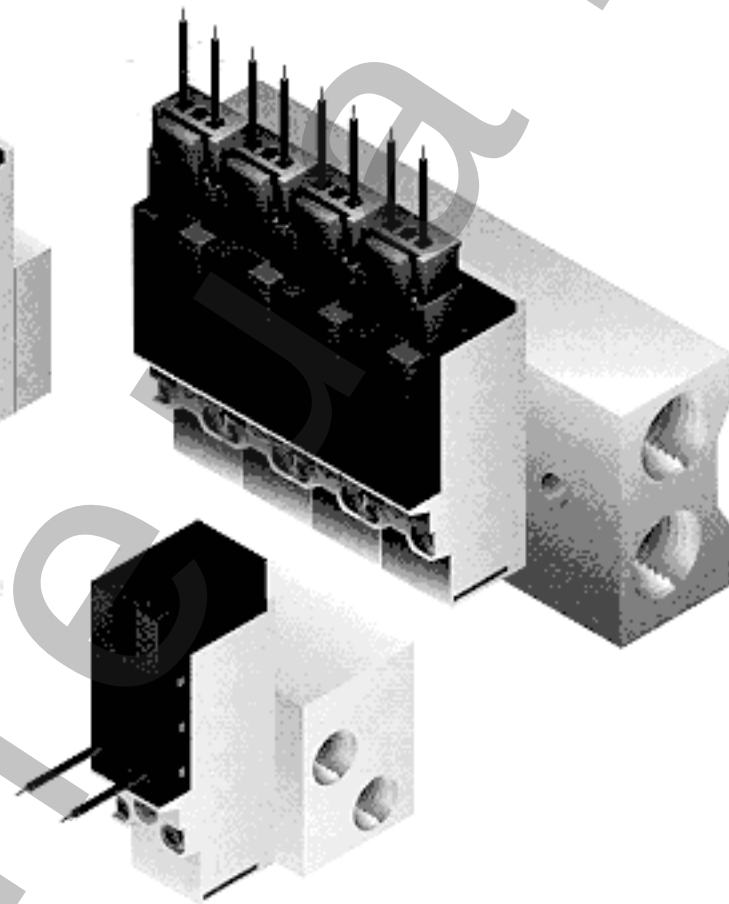


CATALOG HG010

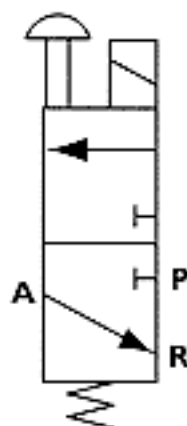


HUMPHREY HG010 SERIES PNEUMATIC CONTROL VALVES

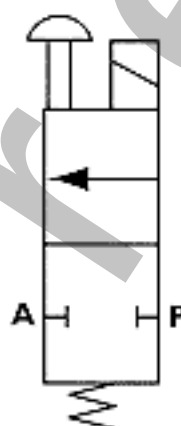


- 10 mm package size
- Use as pilot valve or instrumentation valve
- Continuous duty rated
- Two wattage options: 0.5w and 1 watt
- Two Cv Ranges: 0.005 and 0.01
- AC and DC voltages
- Low watt option - 0.5 watt
- Normally Closed operation
- 2 or 3 way

N.C. THREE WAY



N.C. TWO WAY



FEATURES

The new HG010 series valves are a smaller, lighter, and a more efficient form of micro solenoid valves.

- Two Cv ranges: (P to A/A to R): 0.005/0.01, 0.01/0.02
- Direct Acting Solenoid
- LEDs are standard (can be viewed from many angles)
- Non-locking and locking override combination
- Wattage levels: 0.5, 1.0
- Reverse voltage protection
- Plug-in connector

INLINE VALVES

The HG010 (inline type) valve is pre-assembled to an input port block for direct piping single valve functions.

Every HG010 valve can be piped as a Normally Closed Three-Way or a Normally Closed Two-Way (see ANSI symbols above).



SUBBASE VALVES

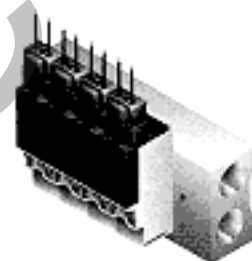
Ordering the HGA010 (manifold type) valve with a single station subbase provides manifold benefits in single valve applications. All piping is located in the subbase.



MANIFOLD MOUNT - HGA010 TYPE VALVES

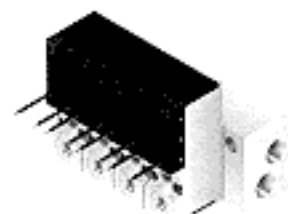
Mounting HGA010 (manifold type) valves to the A Type Manifolds provides reduced installation and maintenance costs in multiple valve applications. All piping ports are located in the manifold.

Manifold lengths are available in two through twenty stations and can be ordered with either 10-32 delivery ports or M3x0.5 delivery ports.

**MANIFOLD MOUNT - HG010 TYPE VALVES**

Mounting HG010 (inline type) valves to the F- Type Manifolds provides a lower cost manifold with reduced installation costs and a plumbing alternative in multiple valve applications. Supply and exhaust ports are located in the manifold and delivery ports are on the valves.

Manifold lengths are available in two through twenty stations.

**ELECTRICAL OPTIONS**

There are three electrical connection options:

- PS-type (two wire), 300 mm or 3000 mm lead length.
- PL-type (two wire), 300 mm or 3000 mm lead length.
- Grommet type, 300 mm lead length

All three have LED: Standard.



PS-type



PL-type



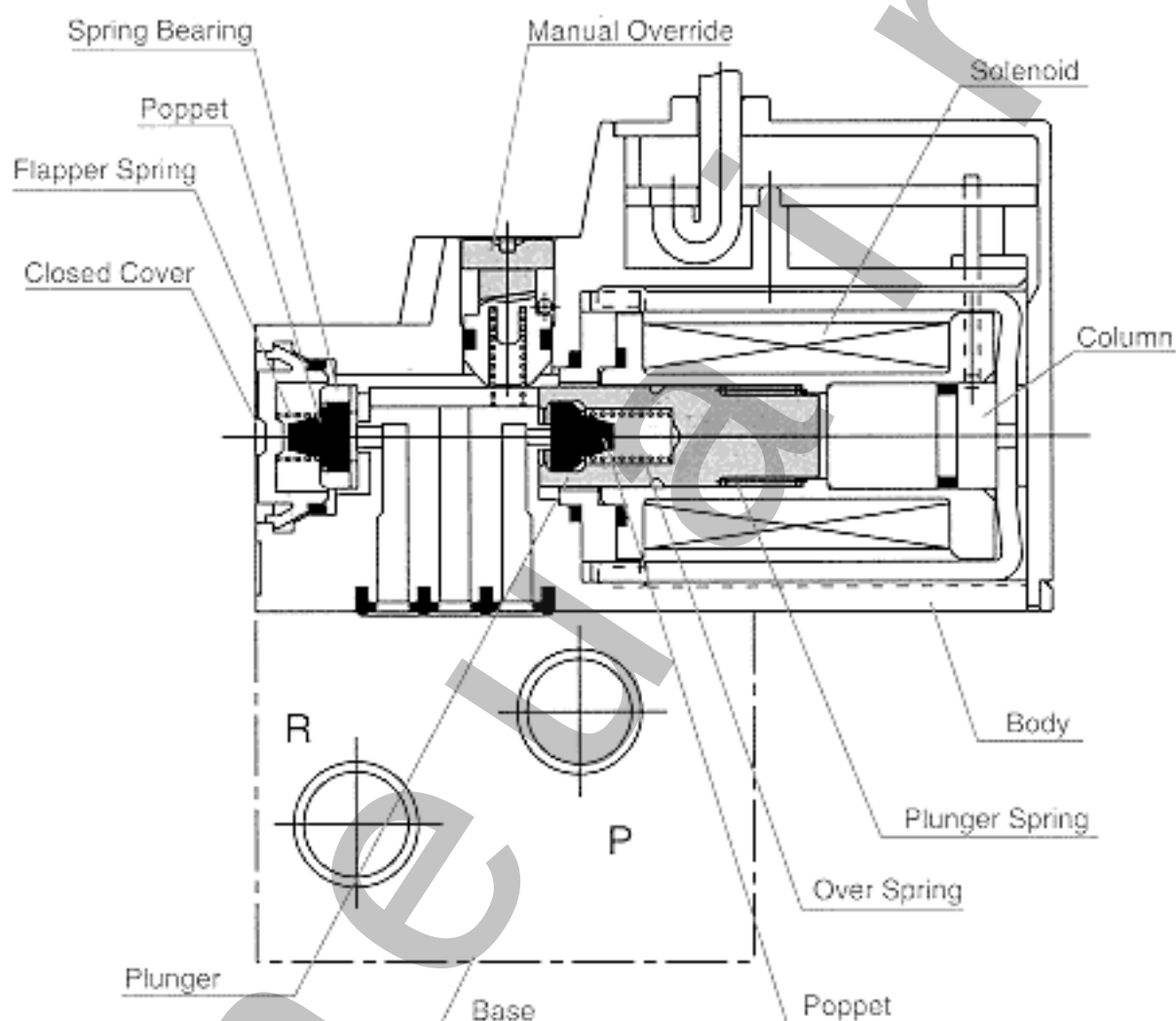
Grommet type

ELECTRICAL SPECIFICATIONS

	HG010EI HGA010EI	HG010LEI HGA010LEI
Rated Voltages	5VDC	5VDC
	6VDC	6VDC
	12VDC	12VDC
	24VDC	24VDC
	120VAC	
	240VAC	
Power Consumption W	1	.5
Methods	DC: Flywheel Diode AC: Full Wave Bridge Rectifier	
Surge Suppressor	Flywheel Diode	
Insulation Resistance MΩ	Minimum 100	
Lead Wire Length-in(mm)	11.8 (300), option 118 (3000)	

SPECIFICATIONS

	HG010EI HGA010EI	HG010LEI HGA010LEI
Flow (P to A/A to R) - Cv	0.01/0.02	0.005/0.01
Response time AC or DC - ms (On/Off)	4/8	4/10
Valve type	2 position, 2 or 3 way	
Function	Normally closed	
Media	Air, Inert gases	
Port size	M3 x 0.5 or 10-32	
Lubrication	Not required	
Operating pressure (psi)	0 - 100	
Maximum operating cycles (cycles/sec)	5	
Operating temperature - F° (C°)	40-122 (5 - 50)	
Shock resistance - G	140 (stem 40)	
Mounting directions	Unrestricted	
Filtration	40 micron recommended	
Materials - Valve	Plastic, Buna, Magnetic Stainless Steel	
- Manifold	Anodized Aluminum	

**Material****Valve**

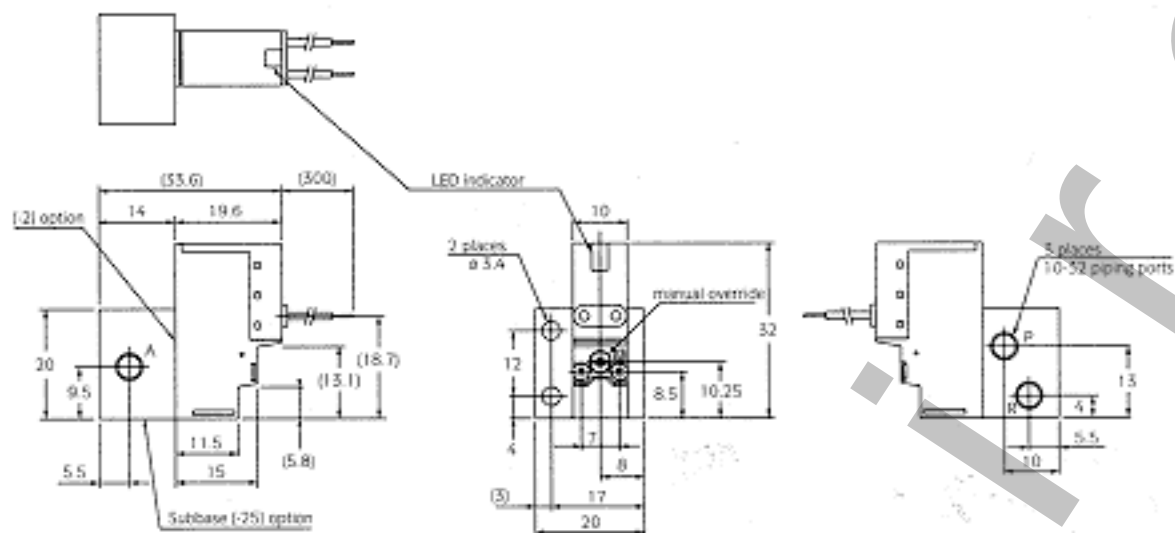
Part name	Part material
Body	Plastic
Poppet	NBR
Plunger	Electro magnet stainless steel
Column	Electro magnet stainless steel
Base	Aluminum alloy (Almite treated)

Manifold

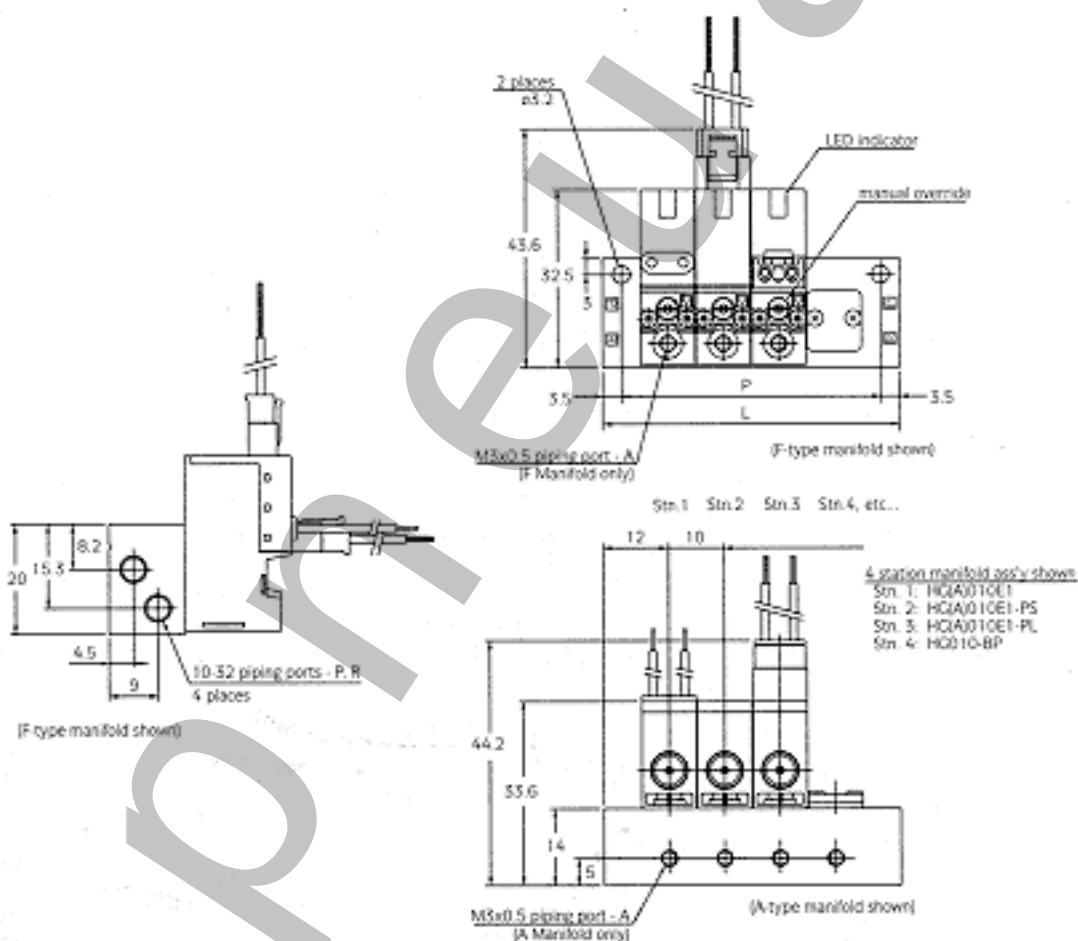
Part name	Part material
Body	Aluminum alloy (Almite treated)
Block off plate	Soft steel (Nickel plated)
Packing	NBR

SUBBASES - mm

ORDER
ONLINE



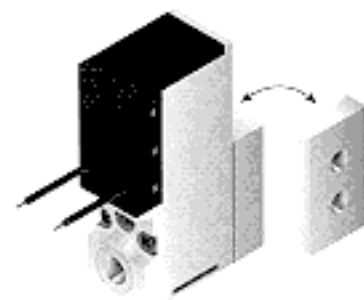
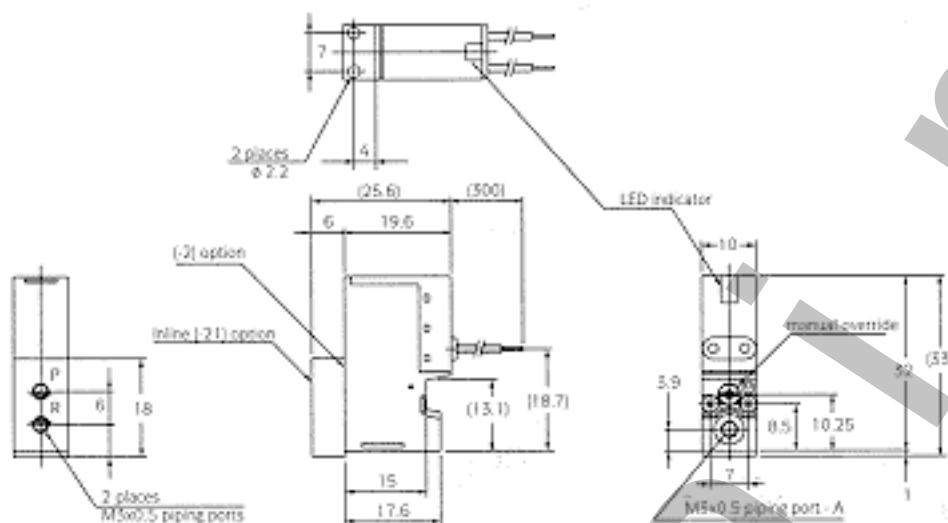
F AND A STANDARD FLOW MANIFOLDS - mm



Manifold stations	2	3	4	5	6	7	8	9	10	11
P	272	374	476	578	68	782	884	986	1088	119
L	342	444	546	648	75	852	954	1056	1158	126
	12	13	14	15	16	17	18	19	20	
P	1292	1394	1496	1598	170	1802	1904	2006	2108	
L	1362	1464	1566	1668	177	1872	1974	2076	2178	

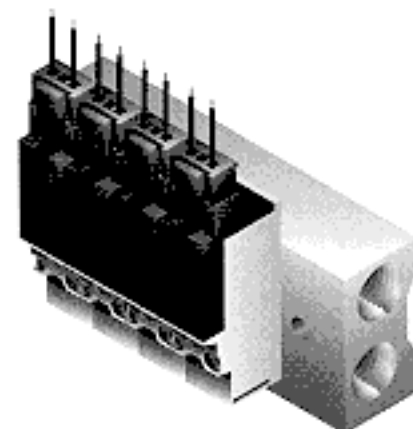
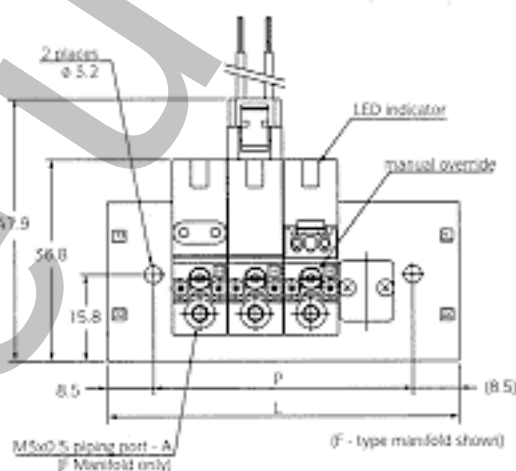
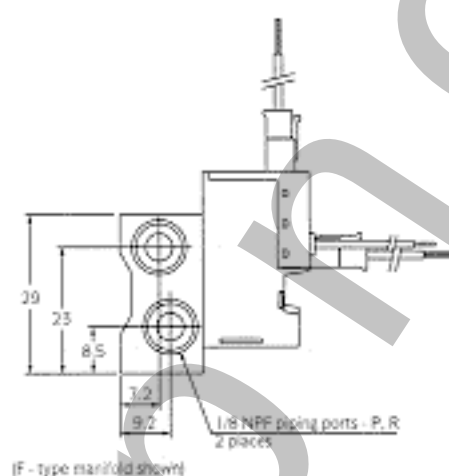
ORDER
ONLINE

INLINE - mm



F AND A HIGH FLOW MANIFOLDS - mm

4 station manifold as/v shown
 Ssn. 1: HQ/A010E1
 Ssn. 2: HQ/A010E1-P5
 Ssn. 3: HQ/A010E1-PL
 Ssn. 4: HQ010 BP



Manifold stations	2	3	4	5	6	7	8	9	10	11
P	27.2	37.4	47.6	57.8	68	78.2	88.4	98.6	108.8	119
L	44.2	54.4	64.6	74.8	85	95.2	105.4	115.6	125.8	136
Manifold stations	12	13	14	15	16	17	18	19	20	
P	129.2	139.4	149.6	159.8	170	180.2	190.4	200.6	210.8	
L	163	173.2	183.4	193.6	203.8	214	224.2	234.4	244.6	

ORDER CODE, HG010 VALVES

HG A010LEI-2-21-PS-24VDC (order example)

AVAILABLE VOLTAGES
5VDC, 6VDC, 12VDC, 24VDC,
120VAC, 240VAC

ELECTRICAL CONNECTIONS

No Code Grommet w/LED, 300 mm lead length
PS Straight-Type Plug-In w/LED, 300 mm lead length*
PL L-Type Plug-In w/LED, 300 mm lead length*

BASIC OPTIONS

No code Basic valve (manifold mount or replacement)
21 Mounting base for inline valve (HG010 type)
25 Single subbase for manifold valve (HGA010 type)

VALVE TYPE OPTIONS

No code Single solenoid, three way
2 Single solenoid, two way

POWER CONSUMPTION OPTIONS

No code 1.0 watt valve (AC OR DC voltage)
L 0.5 watt, low flow valve (DC voltage only)

PORTING OPTIONS

No code Inline, or F-type manifold valve (with threaded body ports)
A Subbase, or A-type manifold valve (no threaded body ports)

* For longer lead wire lengths (3030 mm) order PS-3L or PL-3L.

WEIGHT - GRAMS

HG010EI	14.6
HG010EI-21	16.8
HGA010EI	14.2
HGA010EI-25	26.2
HG010M ^ F	(7xn) + 9*
HG010MH ^ F	(7.2xn) + 33*
HG010M ^ A	(7xn) + 9*
HG010MH ^ A	(7.2xn) + 33*

*n = number of manifold stations

ORDER CODE, HG010 MANIFOLDS

HG10M H 6 A (order example)

MANIFOLD TYPE

A Delivery ports in manifold.
F Delivery ports in valve body.

NUMBER OF STATIONS

Choose from 2 thru 20 stations.
(4, 6, 8, 10, and 12 in stock)

FLOW

Blank Standard flow manifold.
H High flow manifold.

HG010M Manifold for HG010 Valve Series

ORDER CODE, PARTS

HG010 - 25 (order example)

PART

21 Inline input port block
25 Single station subbase
GS 1 Valve to manifold gasket
BP Block off plate

Underlined and bold option codes - delivery from stock