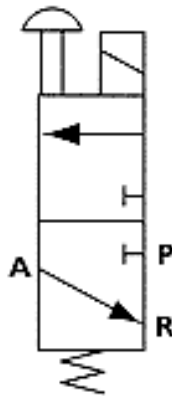




**N.C. THREE WAY**



**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**

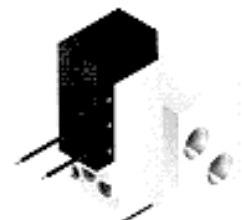
The HG010 (inline type) valve is pre-assembled to an input port block for direct piping single valve functions.

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



**SUBBASE VALVES**

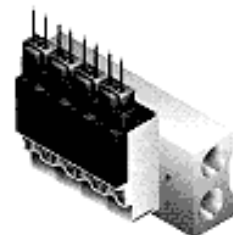
Ordering the HGA010 (manifold type) valve with a single station subbase provides manifold benefits in single valve applications. All piping is located in the subbase.



### 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.

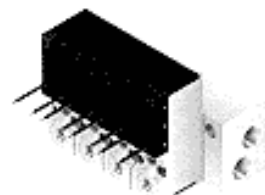
Manifold lengths are available in two through twenty stations and can be ordered with either 10-32 delivery ports or M3x0.5 delivery ports.



### 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

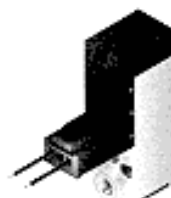
There are three electrical connection options:

- 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



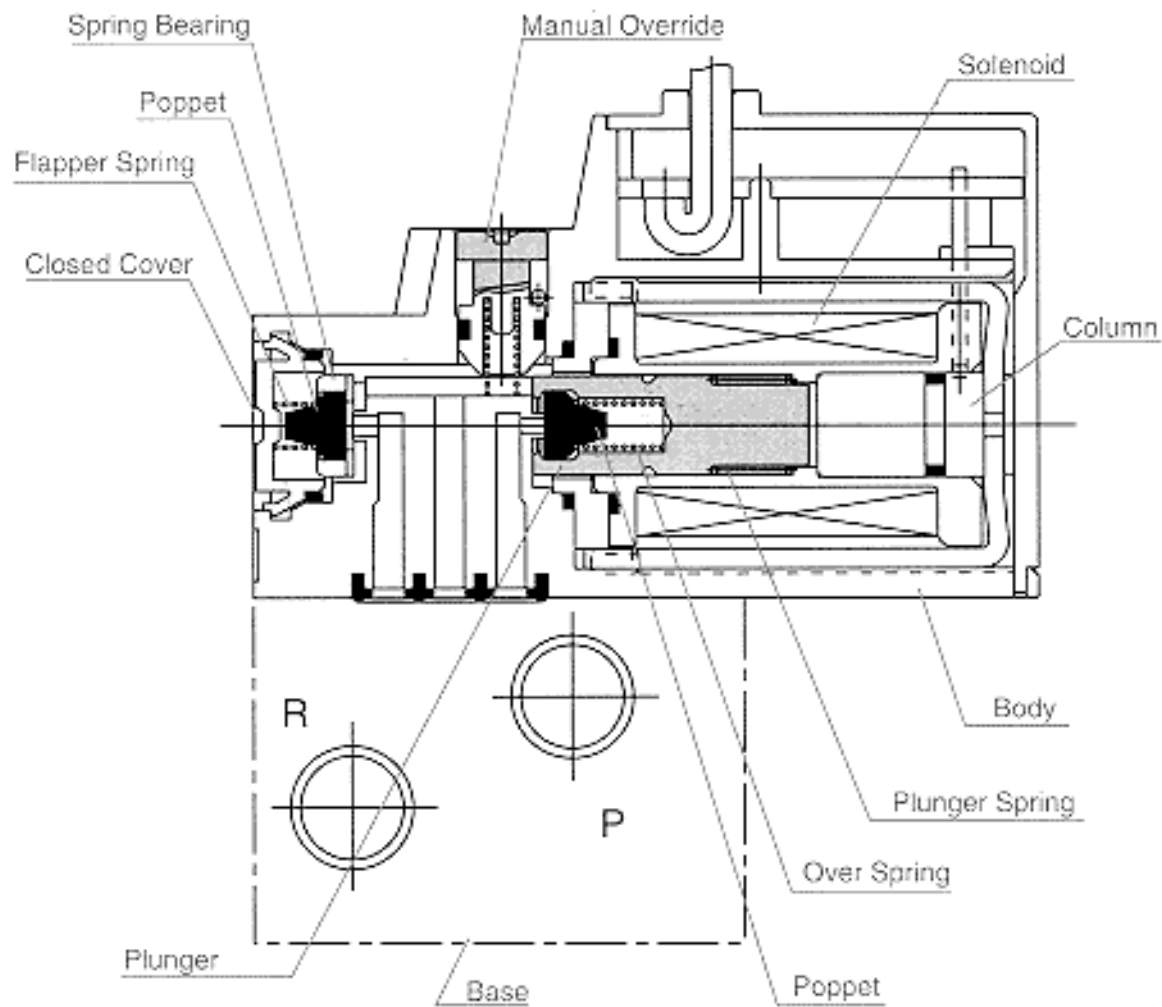
Grommet type


**ELECTRICAL SPECIFICATIONS**

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


**SPECIFICATIONS**

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



**Material**

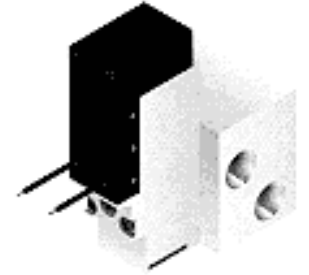
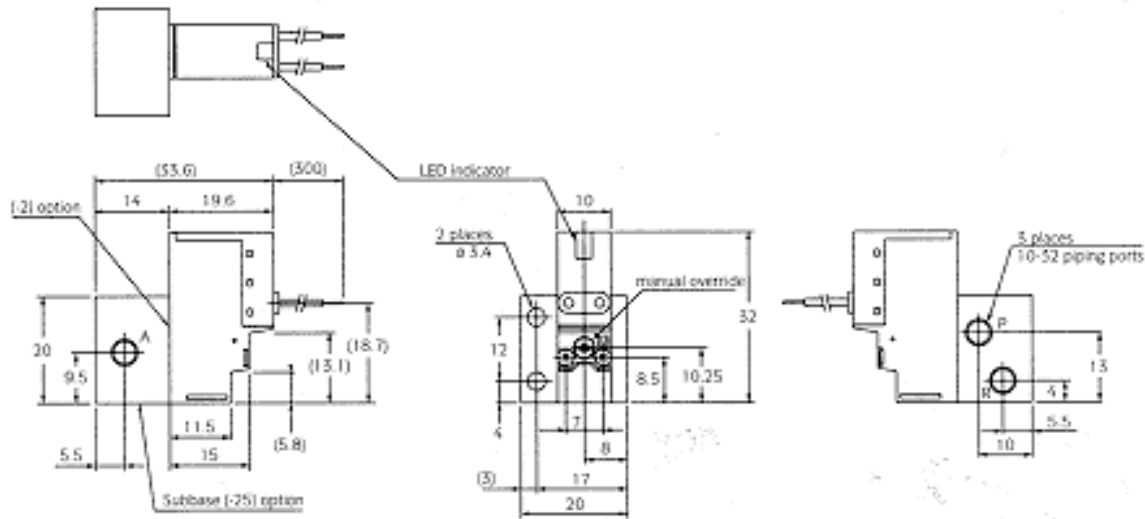
**Valve**

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

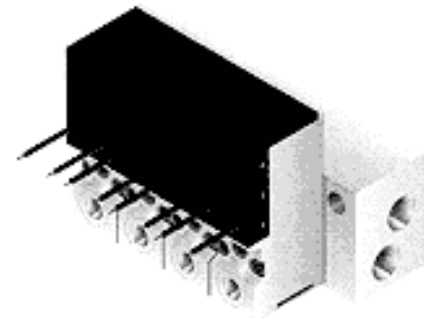
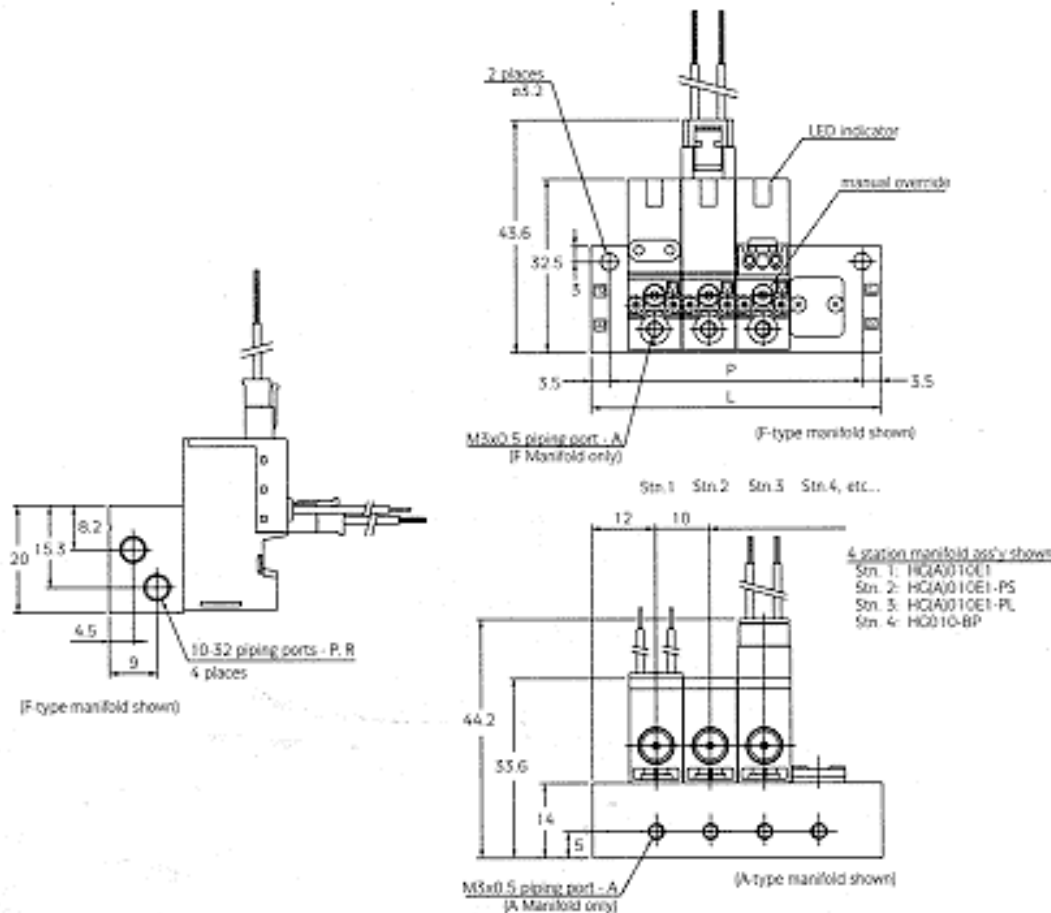
**Manifold**

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

## SUBBASES - mm

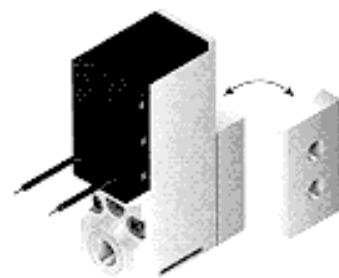
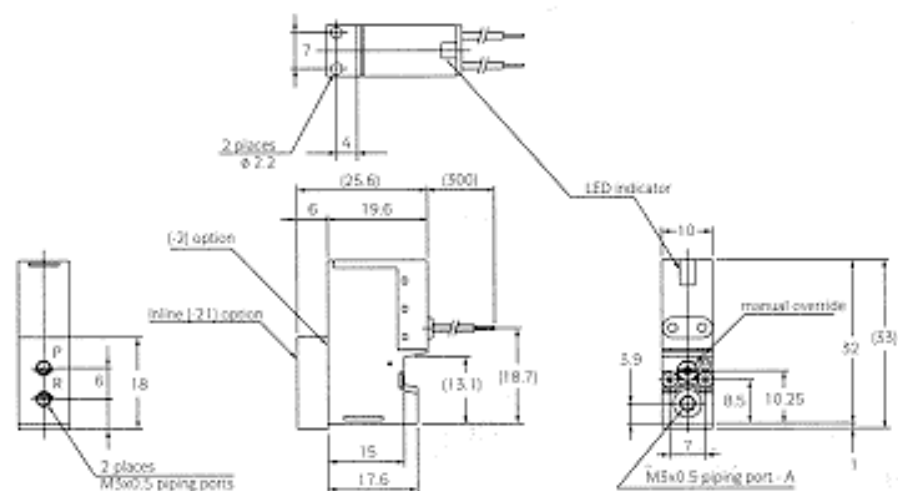


## F AND A STANDARD FLOW MANIFOLDS - mm



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	

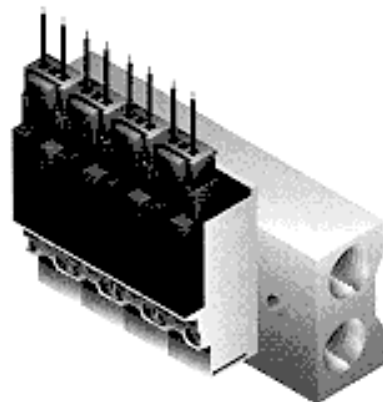
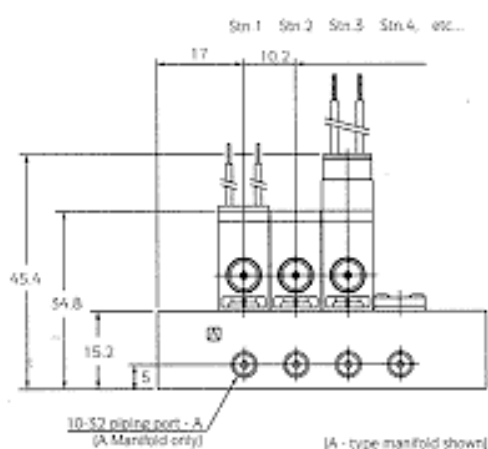
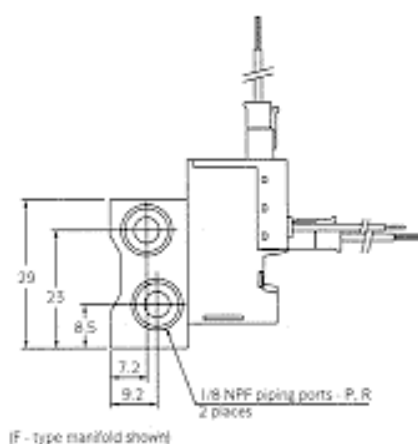
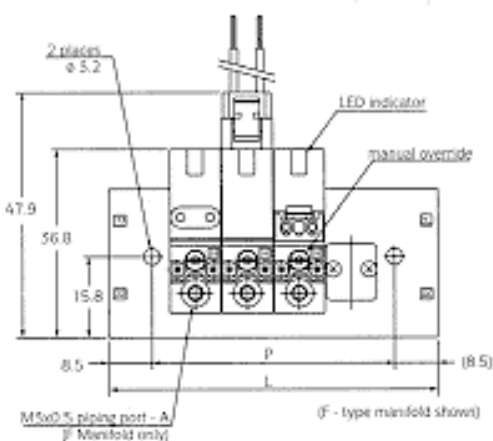
INLINE - mm



F AND A HIGH FLOW MANIFOLDS - mm

4 station manifold assembly shown

- Str. 1: HG/A010E1
- Str. 2: HG/A010E1-PS
- Str. 3: HG/A010E1-PL
- Str. 4: HG010 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
	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	146.2	156.4	166.6	176.8	187	197.2	207.4	217.6	227.8	

