

***General imsubs P. Ltd.***

Quality  
**Water Valves**

**For  
Home Appliances**



# General imsubs P. Ltd.

## General imsubs® Water Solenoid Valves for Appliances

### Features

- ✓ Pilot operated diaphragm water solenoid valves are available in various models and specifications.
- ✓ Available in normally closed, Normally Open and Bistable Latching versions.
- ✓ Water solenoids are available in many standard voltages and option for any specific coil voltage against minimum order.
- ✓ 0.40 mm, removable plastic filter in most models.

### Applications

- ✓ Washing machines (for water inlet / feed)
- ✓ Domestic and Industrial water purifiers. (Inlet water control)
- ✓ Dish washers (Water feed / inlet)
- ✓ Feed valve for coffee and hot beverages vending machine.
- ✓ Automatic water taps and faucets.
- ✓ Dental equipments.
- ✓ And other applications where water is need to be controlled by solenoid valve.

[We also manufacture custom designed valves against specific order](#)

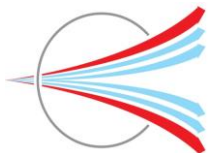
### Ordering Guide

While ordering please use code as under along with Model code:

Valve type			
Prefix Series : G	Prefix Series : D	Prefix Series : N	Prefix Series : L
Normally Closed Pilot Operated Op. Pressure 0.2 – 8.0 bar	Normally Closed Direct Acting Op. Pressure 600 mm WC	Normally Closed Pilot Operated Op. Pressure 0.2 – 4.0 bar	Bi Stable, Latching Pilot Operated Op. Pressure 0.2 – 6.0 bar


**3711/A, GIDC, Phase-IV, Vatva, Ahmedabad-382445, India**

Ph.: 91-79-25840845, 40085985 E mail: [info@giplindia.com](mailto:info@giplindia.com)  
Web site : [www.giplindia.com](http://www.giplindia.com) CIN : U29120GJ1992PTC018382



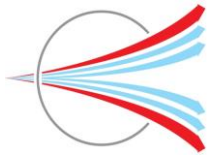
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## VALVES FOR DOMESTIC RO SYSTEMS

<b>Models:</b>	
<b>Model Code : R 1/180, 1/4" QC</b> <b>Direct Acting, zero pressure with 1/4" QC connections</b>	
<b>Appearance</b>	
	
<ul style="list-style-type: none"> <li>✓ Inlet / Outlet : 1/4" QC FITTING</li> <li>✓ Mounting : Integral</li> <li>✓ Food Contact Standard</li> <li>✓ Flow rate: 2-8 LPM</li> <li>✓ Inlet Filter: Not Provided</li> <li>✓ Available Valve Type : Normally Closed (0 to 8 bar)</li> </ul>	<ul style="list-style-type: none"> <li>✓ Available Versions and Voltages : 24 V, 36 V and 48 V DC</li> </ul>
<b>Mounting Details</b>	
N.A.	

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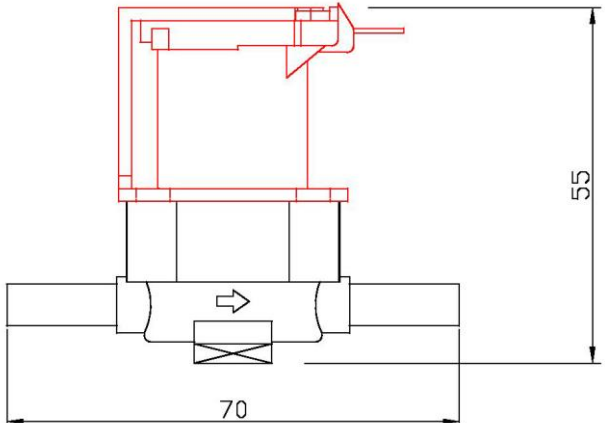
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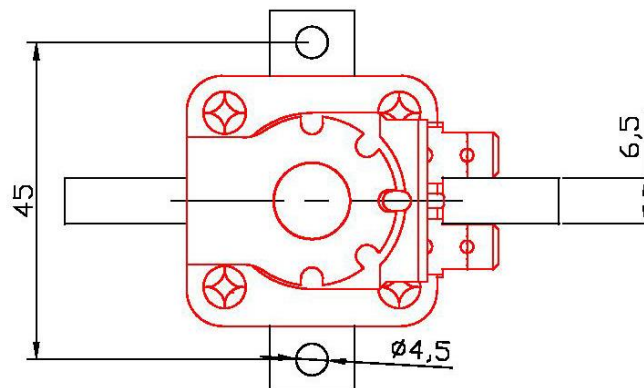
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## Models:

**Model Code : 1/180 1/4" X 1/4" Tube**  
**NO, NC, Low Pressure NC, Bi Stable Latching Operators**

Appearance	Dimensions
	
<ul style="list-style-type: none"> <li>✓ <b>Inlet / Outlet :</b> 1/4" TUBE FOR QC FITTING</li> <li>✓ <b>Mounting :</b> Bottom Mounting</li> <li>✓ <b>Food Contact</b> On request</li> <li>✓ <b>Flow rate:</b> 3-8 LPM</li> <li>✓ <b>Inlet Filter:</b> Not Provided</li> <li>✓ <b>Available Valve Type :</b> Normally Closed (0.2 to 8 bar), Normally Open (0.2 to 4 bar), Low Pressure (600 mm WC), Magnetically Latching (0.2 to 6 bar)</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Available Versions and Voltages :</b></li> <li><b>G series :</b> Normally Closed 6 V DC*, 12, 24, 36, 48 V DC, 110 V*, 230 V AC</li> <li><b>N Series :</b> Normally Open 12, 24, 36, 48 V DC</li> <li><b>L Series :</b> Magnetically Latching: 6 – 12 V DC, 60 mS, 9 Ohms.</li> <li><b>D Series :</b> Low pressure direct acting, 12, 24, 36, 48 V DC, 230 V AC</li> </ul>

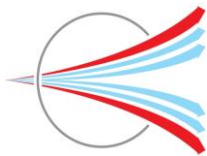
## Mounting Details



Minimum order of 2000 valves

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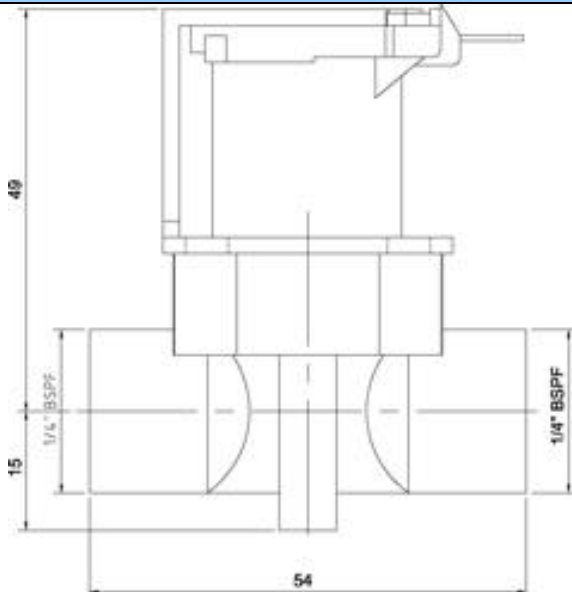
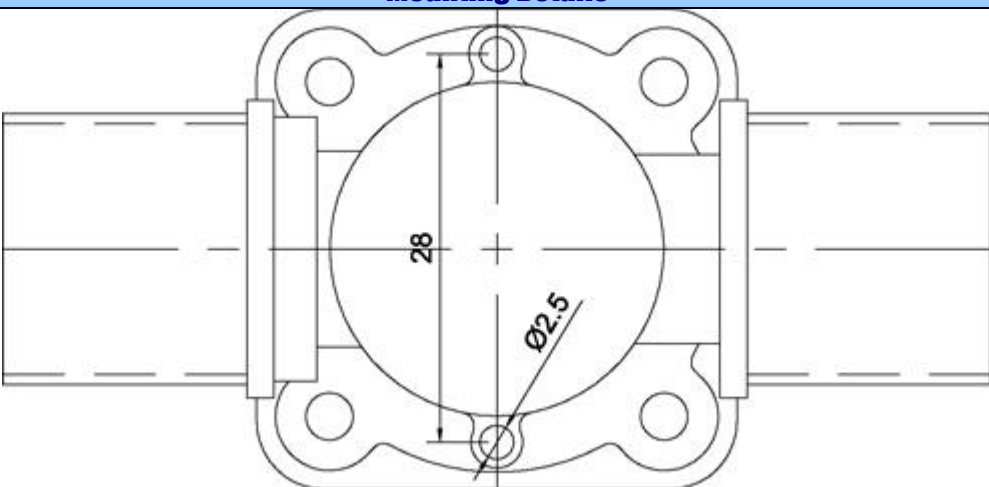
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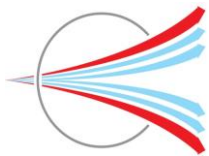
## Models:

**Model Code : 1/180 1/4" X 1/4" BSPF**  
**NO, NC, Low Pressure NC, Bi Stable Latching Operators**


Appearance	Dimensions
	
<ul style="list-style-type: none"> <li>✓ Inlet / Outlet : 1/4" BSPF</li> <li>✓ Mounting : Bottom Mounting</li> <li>✓ Food Contact On request</li> <li>✓ Flow rate: 6-8 LPM</li> <li>✓ Inlet Filter: Not Provided, Optional</li> <li>✓ Available Valve Type : Normally Closed (0.2 to 8 bar), Normally Open (0.2 to 4 bar), Low Pressure (600 mm WC), Magnetically Latching (0.2 to 6 bar)</li> </ul>	<ul style="list-style-type: none"> <li>✓ Available Versions and Voltages :</li> <li><b>G series</b> : Normally Closed 6 V DC*, 12, 24, 36, 48 V DC, 110 V*, 230 V AC</li> <li><b>N Series</b> : Normally Open 12, 24, 36, 48 V DC</li> <li><b>L Series</b> :Magnetically Latching: 6 – 12 V DC, 60 mS, 9 Ohms.</li> <li><b>D Series</b> : Low pressure direct acting, 12, 24, 36, 48 V DC, 230 V AC</li> </ul>
Mounting Details	
	

Minimum order of 2000 valves

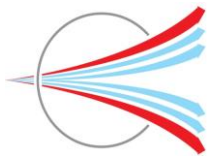
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<b>Models:</b>	
<b>Model Code : 1/180 ¼" X ¼" QC</b> <b>NO, NC, Low Pressure NC, Bi Stable Latching Operators</b>	
<b>Appearance</b>	<b>Dimensions</b>
	
<ul style="list-style-type: none"> <li>✓ <b>Inlet / Outlet :</b> ¼" BSPF</li> <li>✓ <b>Mounting :</b> Bottom Mounting</li> <li>✓ <b>Food Contact</b> On request</li> <li>✓ <b>Flow rate:</b> 6-8 LPM</li> <li>✓ <b>Inlet Filter:</b> Not Provided, Optional</li> <li>✓ <b>Available Valve Type :</b> Normally Closed (0.2 to 8 bar), Normally Open (0.2 to 4 bar), Low Pressure (600 mm WC), Magnetically Latching (0.2 to 6 bar)</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Available Versions and Voltages :</b></li> <li><b>G series :</b> Normally Closed 6 V DC*, 12, 24, 36, 48 V DC, 110 V*, 230 V AC</li> <li><b>N Series :</b> Normally Open 12, 24, 36, 48 V DC</li> <li><b>L Series :</b> Magnetically Latching: 6 – 12 V DC, 60 mS, 9 Ohms.</li> <li><b>D Series :</b> Low pressure direct acting, 12, 24, 36, 48 V DC, 230 V AC</li> </ul>
<b>Mounting Details</b>	


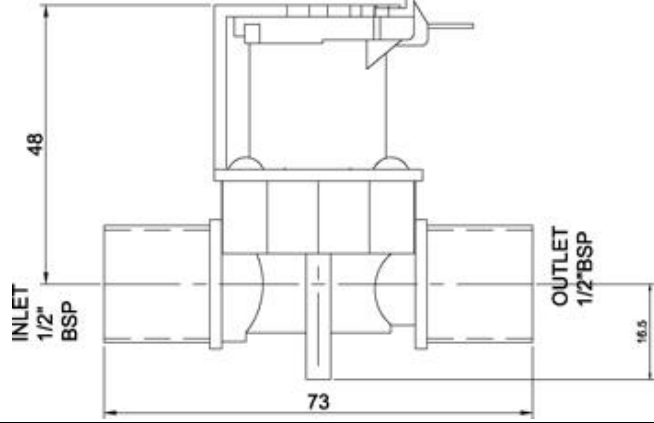
Minimum order of 2000 valves



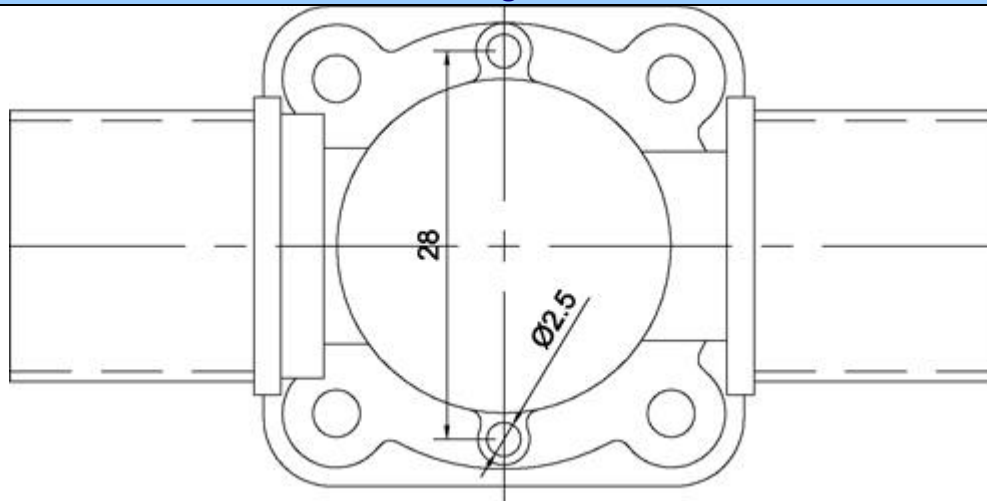
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## Models:

**Model Code : 1/180 ½"X ½" BSPM**  
**NO, NC, Low Pressure NC, Bi Stable Latching Operators**

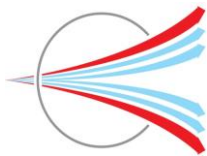
Appearance	Dimensions
	
<ul style="list-style-type: none"> <li>✓ <b>Inlet / Outlet :</b> ½" BSPM</li> <li>✓ <b>Mounting :</b> Bottom Mounting</li> <li>✓ <b>Food Contact</b> On request</li> <li>✓ <b>Flow rate:</b> 30 LPM</li> <li>✓ <b>Inlet Filter:</b> Encapsulated SS mesh, 0.45 mm</li> <li>✓ <b>Available Valve Type :</b> Normally Closed (0.2 to 8 bar), Normally Open (0.2 to 4 bar), Low Pressure (600 mm WC), Magnetically Latching (0.2 to 6 bar)</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Available Versions and Voltages :</b></li> <li><b>G series :</b> Normally Closed 6 V DC*, 12, 24, 36, 48 V DC, 110 V*, 230 V AC</li> <li><b>N Series :</b> Normally Open 12, 24, 36, 48 V DC</li> <li><b>L Series :</b> Magnetically Latching: 6 – 12 V DC, 60 mS, 9 Ohms.</li> <li><b>D Series :</b> Low pressure direct acting, 12, 24, 36, 48 V DC, 230 V AC</li> </ul>

## Mounting Details



Minimum order of 2000 valves


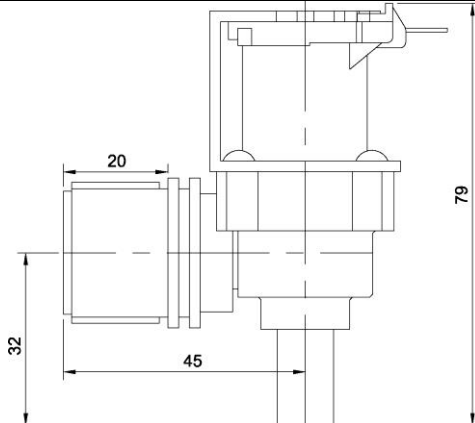
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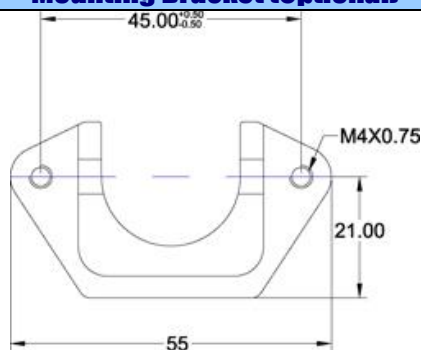
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## Models:

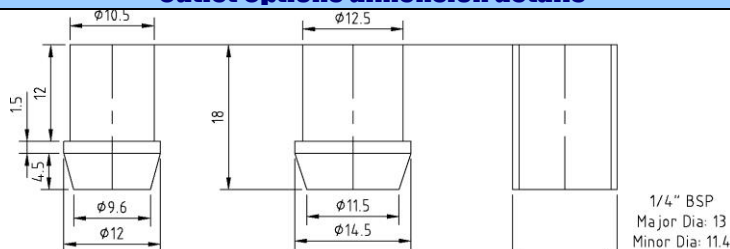
**Model Code : 1/90, 3 different types of outlet  
NO, NC, Low Pressure NC, Bi Stable Latching Operators**

Appearance	Dimensions
	
<ul style="list-style-type: none"> <li>✓ <b>Outlet :</b> 10.5 mm, 12.5 mm, 1/4" BSPM</li> <li>✓ <b>Inlet :</b> 3/4" BSPM</li> <li>✓ <b>Mounting :</b> Mounting Bracket (Optional)</li> <li>✓ <b>Food Contact :</b> On request</li> <li>✓ <b>Flow rate:</b> 1.5 / 2.5 / 5 / 10 / 30 LPM</li> <li>✓ <b>Inlet Filter:</b> Polyacetal, 0.45 mm</li> <li>✓ <b>Available Valve Type :</b> Normally Closed (0.2 to 8 bar), Normally Open (0.2 to 4 bar), Low Pressure (600 mm WC), Magnetically Latching (0.2 to 6 bar)</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Available Versions and Voltages :</b></li> <li><b>G series :</b> Normally Closed 6 V DC*, 12, 24, 36, 48 V DC, 110 V*, 230 V AC</li> <li><b>N Series :</b> Normally Open 12, 24, 36, 48 V DC</li> <li><b>L Series :</b> Magnetically Latching: 6 – 12 V DC, 60 mS, 9 Ohms.</li> <li><b>D Series :</b> Low pressure direct acting, 12, 24, 36, 48 V DC, 230 V AC</li> </ul>

### Mounting Bracket (Optional)



### Outlet Options dimension details

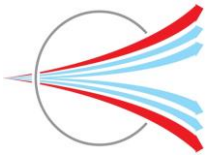


Minimum order of 2000 valves

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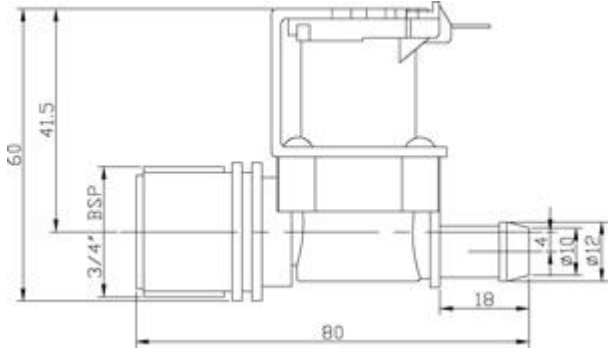




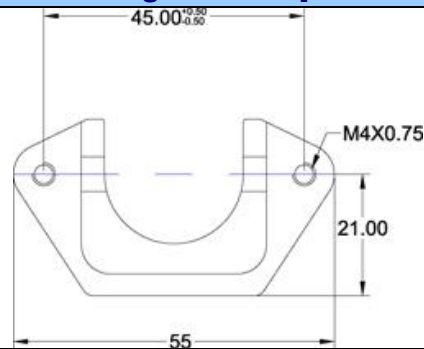
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## Models:

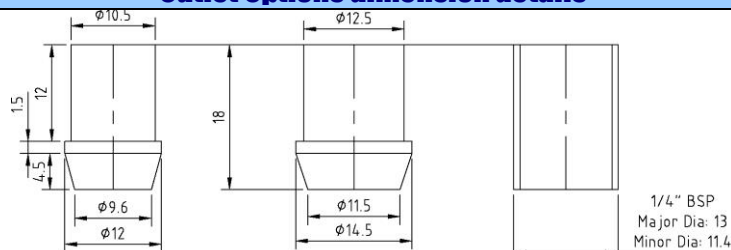
**Model Code : 1/180, 3 different types of outlet  
NO, NC, Low Pressure NC, Bi Stable Latching Operators**

Appearance	Dimensions
	
<ul style="list-style-type: none"> <li>✓ <b>Outlet :</b> 10.5 mm, 12.5 mm, 1/4" BSPM</li> <li>✓ <b>Inlet :</b> 3/4" BSPM</li> <li>✓ <b>Mounting :</b> Mounting Bracket (Optional)</li> <li>✓ <b>Food Contact</b> On request</li> <li>✓ <b>Flow rate:</b> 1.5 / 2.5 / 5 / 10 / 30 LPM</li> <li>✓ <b>Inlet Filter:</b> Polyacetal, 0.45 mm</li> <li>✓ <b>Available Valve Type :</b> Normally Closed (0.2 to 8 bar), Normally Open (0.2 to 4 bar), Low Pressure (600 mm WC), Magnetically Latching (0.2 to 6 bar)</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Available Versions and Voltages :</b></li> <li><b>G series :</b> Normally Closed 6 V DC*, 12, 24, 36, 48 V DC, 110 V*, 230 V AC</li> <li><b>N Series :</b> Normally Open 12, 24, 36, 48 V DC</li> <li><b>L Series :</b> Magnetically Latching: 6 – 12 V DC, 60 mS, 9 Ohms.</li> <li><b>D Series :</b> Low pressure direct acting, 12, 24, 36, 48 V DC, 230 V AC</li> </ul>

### Mounting Bracket (Optional)



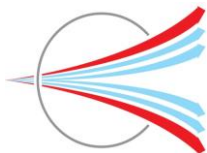
### Outlet Options dimension details



Minimum order of 2000 valves

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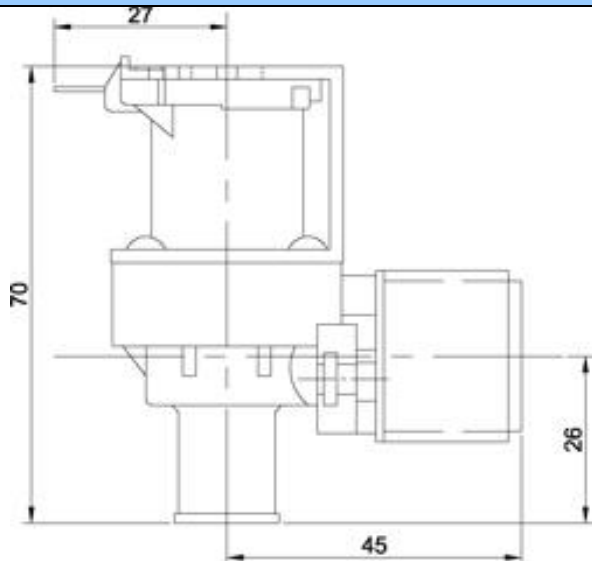


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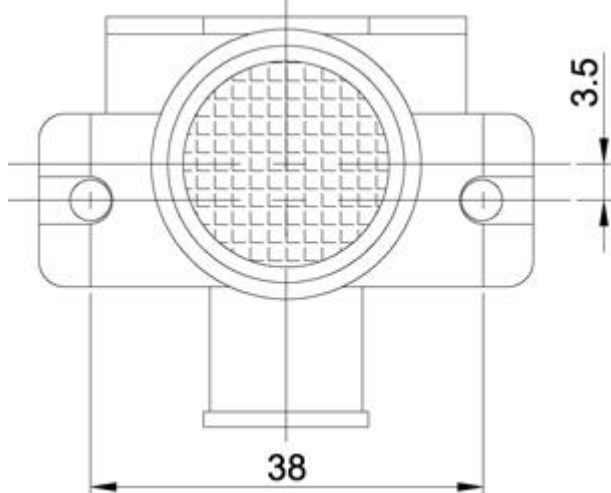
## Models:

**Model Code : 1/90BB**

**NO, NC, Low Pressure NC, Bi Stable Latching Operators**

Appearance	Dimensions
	
<ul style="list-style-type: none"> <li>✓ <b>Outlet</b> : 14 mm Hose Barb</li> <li>✓ <b>Inlet</b> : 3/4" BSPM</li> <li>✓ <b>Mounting</b> : Mounting Bracket - Built in</li> <li>✓ <b>Food Contact</b> On request</li> <li>✓ <b>Flow rate</b>: 5 / 10 / 30 LPM</li> <li>✓ <b>Inlet Filter</b>: Polyacetal, 0.45 mm</li> <li>✓ <b>Available Valve Type</b> : Normally Closed (0.2 to 8 bar), Normally Open (0.2 to 4 bar), Low Pressure (600 mm WC), Magnetically Latching (0.2 to 6 bar)</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Available Versions and Voltages</b> :</li> <li><b>G series</b> : Normally Closed 6 V DC*, 12, 24, 36, 48 V DC, 110 V*, 230 V AC</li> <li><b>N Series</b> : Normally Open 12, 24, 36, 48 V DC</li> <li><b>L Series</b> :Magnetically Latching: 6 – 12 V DC, 60 mS, 9 Ohms.</li> <li><b>D Series</b> : Low pressure direct acting, 12, 24, 36, 48 V DC, 230 V AC</li> </ul>

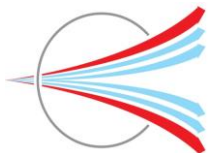
## Mounting Bracket (Built In)


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Minimum order of 2000 valves

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# General imsubs P. Ltd.

VALVES FOR ICE MAKER, DISH WASHER, WASHING MACHINE, DENTAL EQUIPMENTS

## Models:

**Model Code : 1/180, 12mm Tube**  
**NO, NC, Low Pressure NC, Bi Stable Latching Operators**

### Appearance



### Dimensions

- ✓ **Inlet / Outlet :** 12 mm Tube, Suitable for QC
- ✓ **Mounting :** 2 bottom mounting studs
- ✓ **Food Contact** Yes
- ✓ **Flow rate:** 30 LPM for pilot operated / 5 LPM fir direct acting.
- ✓ **Inlet Filter:** Not Provided
- ✓ **Available Valve Type :** Normally Closed (0.2 to 8 bar), Normally Open (0.2 to 4 bar), Low Pressure (600 mm WC), Magnetically Latching (0.2 to 6 bar)

- ✓ **Available Versions and Voltages :**
- G series :** Normally Closed 6 V DC\*, 12, 24, 36, 48 V DC, 110 V\*, 230 V AC
- N Series :** Normally Open 12, 24, 36, 48 V DC
- L Series :** Magnetically Latching: 6 – 12 V DC, 60 mS, 9 Ohms.
- D Series :** Low pressure direct acting, 12, 24, 36, 48 V DC, 230 V AC


### Mounting Bracket (Built In)

Minimum order of 2000 valves

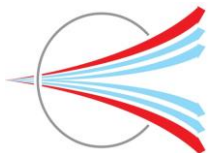
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# General imsubs P. Ltd.

<b>Models:</b>	
<b>Model Code : 1/180 Flanged</b> <b>NO, NC, Low Pressure NC, Bi Stable Latching Operators</b>	
<b>Appearance</b>	<b>Dimensions</b>
	
<ul style="list-style-type: none"> <li>✓ <b>Inlet / Outlet :</b> Flanged, customer scope</li> <li>✓ <b>Mounting :</b> N.A.</li> <li>✓ <b>Food Contact</b> On request</li> <li>✓ <b>Flow rate:</b> 30 LPM</li> <li>✓ <b>Inlet Filter:</b> Not Available</li> <li>✓ <b>Available Valve Type :</b> Normally Closed (0.2 to 8 bar), Normally Open (0.2 to 4 bar), Low Pressure (600 mm WC), Magnetically Latching (0.2 to 6 bar)</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Available Versions and Voltages :</b></li> <li><b>G series :</b> Normally Closed 6 V DC*, 12, 24, 36, 48 V DC, 110 V*, 230 V AC</li> <li><b>N Series :</b> Normally Open 12, 24, 36, 48 V DC</li> <li><b>L Series :</b> Magnetically Latching: 6 – 12 V DC, 60 mS, 9 Ohms.</li> <li><b>D Series :</b> Low pressure direct acting, 12, 24, 36, 48 V DC, 230 V AC</li> </ul>
<b>Mounting Details</b>	

Minimum order of 2000 valves



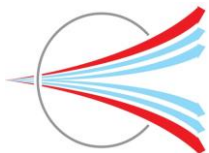
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## Technical Specifications:

Sr.No.	PARAMETER	DESCRIPTION
1.	<b>Type</b>	Normally Closed : Pilot operated diaphragm type. Normally Open : Pilot operated diaphragm type. Low Pressure : Direct Acting Latching : Pilot operated diaphragm type
2.	<b>Connector</b>	Normally Closed : Horizontal Spade, 6.3 x 0.8 mm (Faston Tags) Normally Open : Horizontal Spade, 6.3 x 0.8 mm (Faston Tags) Low Pressure : Horizontal Spade, 6.3 x 0.8 mm (Faston Tags) Latching : Flexible Wire 100 mm L
3.	<b>Electric Rating</b>	Normally Closed : 6 V DC*, 1000 mA) / 12 V DC, 500 mA / 24 V DC, 300 mA / 36 V DC, 300 mA / 48 V DC, 300 mA / 110-120 V AC*, 6 VA / 220-240 V AC, 6VA ( for AC 50 / 60 Hz.) Normally Open : 12 V DC, 500 mA / 24 V DC, 300 mA / 36 V DC, 300 mA / 48 V DC, 300 mA Low Pressure : 12 V DC, 500 mA / 24 V DC, 300 mA / 36 V DC, 300 mA / 48 V DC, 300 mA Latching : 6 – 12 V DC, 9 ohm coil.
4.	<b>Current</b>	Normally Closed : 6 W Normally Open : 6 W Low Pressure : 8 W Latching : 9 Ohms
5.	<b>Insulation Class</b>	Winding: "F", 155° C. Class-II
6.	<b>Insulation Resistance</b>	Over 500 M Ohms
7.	<b>Insulation Breakdown Voltage</b>	2.5 kV, 1 Sec.
8.	<b>Solenoid Temperature Rise</b>	Under 95° C. at 25° C. ambient.
9.	<b>Suitable Fluid</b>	Water
10.	<b>Ambient Temp.</b>	45° C. max.
11.	<b>Fluid Temp.</b>	60° C max.
12.	<b>Operating Pressure</b>	Please check model and type of valve
13.	<b>Mounting Position</b>	Any (Coil upright preferred)
14.	<b>Life</b>	More than 500,000 cycles.

**3711/A, GIDC, Phase-IV, Vatva, Ahmedabad-382445, India**

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Web site : [www.giplindia.com](http://www.giplindia.com) CIN : U29120GJ1992PTC018382



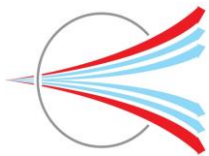
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## **Bill of Material:**

<b>Sr.</b>	<b>Part Name</b>	<b>Material</b>	<b>Remark</b>
1.	<b>Body</b>	Nylon, Glass filled	Applicable to all model except G 1/90 BB, Food contact compatible
2.	<b>Body</b>	Polypropylene	Applicable to G 1/90 BB, Food contact compatible
3.	<b>Armature Guide</b>	Nylon, Glass Filled	Applicable to all models, Food contact compatible
4.	<b>Armature</b>	SS 410/430	Food contact compatible
5.	<b>Spring</b>	SS 304	Food contact compatible
6.	<b>Diaphragm</b>	Rubber, Nitrile	Food contact compatible
7.	<b>Pilot</b>	Poly Acetal	Food contact compatible
8.	<b>Inlet Flow restrictor</b>	Nylon / Polyacetal	Not provided in ½" and ¼" BSP valves., Food contact compatible
9.	<b>Inlet flow rubber</b>	Rubber, Nitrile	Not provided in ½" and ¼" BSP valves., Food contact compatible
10.	<b>Outlet Flow restrictor</b>	Poly Acetal	For valve having flow rate less than 5 LPM. Not provided in ½" and ¼" BSP valves., Food contact compatible
11.	<b>Outlet flow rubber</b>	Rubber, Nitrile	For valve having flow rate less than 5 LPM. Not provided in ½" and ¼" BSP valves, Food contact compatible
12.	<b>Filter</b>	Polyacetal	SS filter in ½" BSP valve. Not provided in ¼" BSP valve, Food contact compatible
13.	<b>Spool</b>	Nylon, Glass Filled	Fire retardant construction available.
14.	<b>Coil Encapsulation</b>	Nylon	
15.	<b>Winding wire</b>	Copper enameled wire	Insulation class "F", 155° C
16.	<b>Coil Holding Assembly</b>	Soft Steel	
17.	<b>Lugs</b>	Tin plated Brass	
18.	<b>Screws</b>	Carbon Steel	

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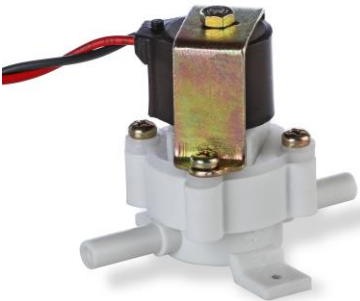



## Magnetically Latching Solenoid Valves

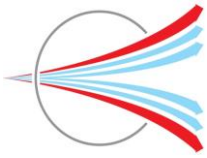
Magnetically latching solenoid valves are used in battery operated auto taps, automatic sensor based touchless water dispenser.

Sensor taps use pilot operated version having operating range of pressure from 0.2 to 6 bar


sensor based touchless water dispenser uses direct acting low pressure version, pressure range 0-600 mm Water Column (WC)

L 1/180 ½" X ½"	L 1/180 ¼" X ¼"
	
<ul style="list-style-type: none"> <li>✓ Inlet / Outlet : ½" BSP Male threaded</li> <li>✓ Mounting: Bottom mounting studs</li> <li>✓ Available : In 2 version, 0.2 to 6 bar, pilot operated for auto taps and 0-600 mm WC, direct acting for water dispenser</li> </ul>	<ul style="list-style-type: none"> <li>✓ Inlet / Outlet : ¼" BSP Female threaded</li> <li>✓ Mounting: Bottom mounting studs</li> <li>✓ Available : In 2 version, 0.2 to 6 bar, pilot operated for auto taps and 0-600 mm WC, direct acting for water dispenser</li> </ul>
L 1/180 6mm X 6mm Tube	L 1/90 ¼" X ¼" 3 different types of outlet
	
<ul style="list-style-type: none"> <li>✓ Inlet / Outlet : ½" BSP Male threaded</li> <li>✓ Mounting: Bottom mounting studs</li> <li>✓ Available : In 2 version, 0.2 to 6 bar, pilot operated for auto taps and 0-600 mm WC, direct acting for water dispenser</li> </ul>	<ul style="list-style-type: none"> <li>✓ Outlet : 10.5 mm, 12.5 mm, ¼" BSPM</li> <li>✓ Inlet : ¾" BSPM</li> <li>✓ Mounting: Bracket Optional</li> <li>✓ Available : In 2 version, 0.2 to 6 bar, pilot operated for auto taps and 0-600 mm WC, direct acting for water dispenser</li> </ul>

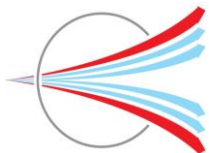




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L 1/180, 3 different types of outlet	
	
<ul style="list-style-type: none"> <li>✓ <b>Outlet :</b> 10.5 mm, 12.5 mm, 1/4" BSPM</li> <li>✓ <b>Inlet :</b> 3/4" BSPM</li> <li>✓ <b>Mounting:</b> Bracket Optional</li> <li>✓ <b>Available :</b> In 2 version, 0.2 to 6 bar, pilot operated for auto taps and 0-600 mm WC, direct acting for water dispenser</li> </ul>	
Features	
<ul style="list-style-type: none"> <li>✓ Made in India valve. <i>General imsubs®</i> is the only manufacturer of latching solenoid valves in India since last 15 years.</li> <li>✓ Used where power supply has limitations to supply continuous power to keep valve ON.</li> <li>✓ Also places where heat transfer from coil to water is not desirable.</li> <li>✓ Operates from 4.8 V DC to 12 V DC pulse.</li> <li>✓ Pulse width required is 60 mS @ 6 VDC, 6 bar pressure.</li> <li>✓ Food contact compatible construction available.</li> <li>✓ 0.40 mm, removable plastic filter.</li> </ul>	
Applications	
<ul style="list-style-type: none"> <li>✓ Automatic sensor taps and faucets.</li> <li>✓ Automatic sensor urine flushing system.</li> <li>✓ Battery operated control systems.</li> <li>✓ Sensor based touchless water dispenser</li> </ul>	

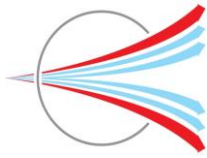




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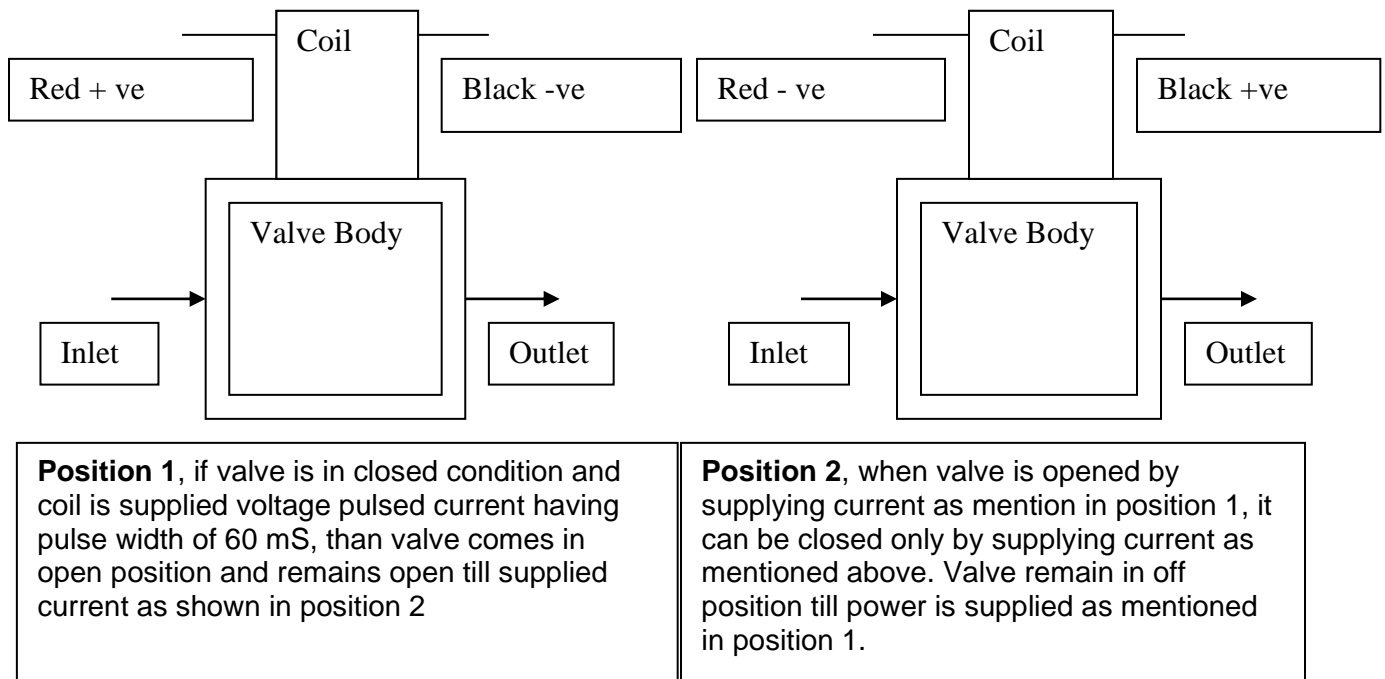
## **Technical Specifications Magnetically Latching Solenoid:**

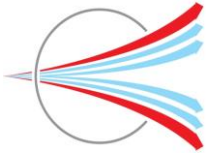
<b>Sr.No.</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>
1.	<b>Type</b>	Pilot operated diaphragm type.
2.	<b>Configuration Type</b>	2/2 magnetically latching, Bi stable
3.	<b>Connector</b>	Wired leads, 100 mm L, Red and Black color.
4.	<b>Resistance of Coil</b>	9 +/- 1 $\Omega$
5.	<b>Operating Range of voltage</b>	4.8-12 V DC, Recommended pulse 60 mS at 4.8 to 6 V DC Recommended Pulse 20 mS for voltage 6 to 12 V DC
6.	<b>Insulation Class</b>	Winding: "F", 155° C. Class-II
7.	<b>Fluid Temp.</b>	60° C max.
8.	<b>Operating Pressure</b>	0.2 bar to 6 bar
9.	<b>Mounting Position</b>	Any (Coil upright preferred)
10.	<b>Burst Pressure</b>	16 bar minimum.
11.	<b>Water Leakage</b>	No leakage from 0.2 bar to 6 bar.
12.	<b>Mechanical Life</b>	More than 500,000 cycles.



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## **Latching Valve operation schematic diagram**

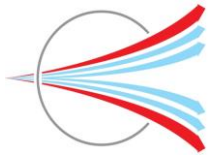




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## **Brief Design Guide:**

- ✓ Life of battery (1.5 V DC X 4 Nos. alkaline) is about 200 000 cycles (only valve operations).
- ✓ Latching valve operates upto 5 V DC, 60 mS pulse. Hence circuit should have cut off voltage or battery low / replace battery indication suitably.
- ✓ It is preferred to mount latching valve in coil up right position.
- ✓ As supply voltage goes higher pulse width decreases.
- ✓ 60 mS pulse is optimum pulse width for valve operation from CLOSE to OPEN position for 4.8 - 6 V DC. For OPEN to CLOSE position, pulse width of 30 mS for 4.8 - 6 V DC may be kept. This will maximize battery life.
- ✓ Circuit employed in operation of valve should be of high quality and should have minimum current consumption in stand by mode to maximize battery life.
- ✓ Test figures mentioned in this document is based on 6 V DC obtained using 1.5 V X 4 Nos. alkaline batteries under ideal conditions.



# ***General imsubs P. Ltd.***

## **About Us :**

*General Imsubs®* is pioneer manufacturer of water valves in India since 1992. We have been manufacturing wide range of water valves catering to the need of growing appliances industry.

Valve manufactured by General Imsubs complies to stringent international product standards like UL, CE, EN, VDE and JIS.

All valves supplied by *General Imsubs®* are warranted for performance and we offer warranty to all OE customers. Our sophisticated manufacturing and tracking systems can track valves upto its component and raw material level. All valves are custom labeled with customer name to ease tracking even at customer end.

Our manufacturing facilities are equipped with sophisticated CNC coil winding machines, specially designed test rigs to check performance of valves.

All valves goes through 100% tests, as per applicable international standards.