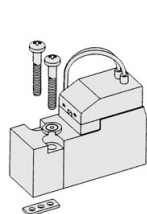


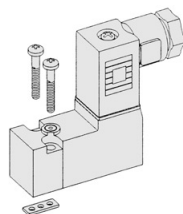
# YSV20

Direct Actuated  
15mm Micro Solenoid Valves

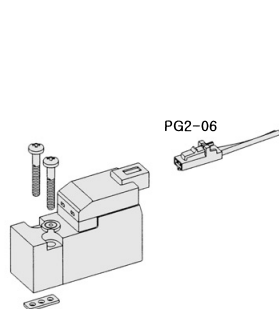
- 3/2 - Direct Operation Type
- Manifold Mounting Type
- Orifice 1.1mm



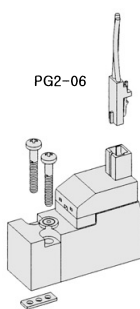
YSV20-DP-SD-\*\*\*



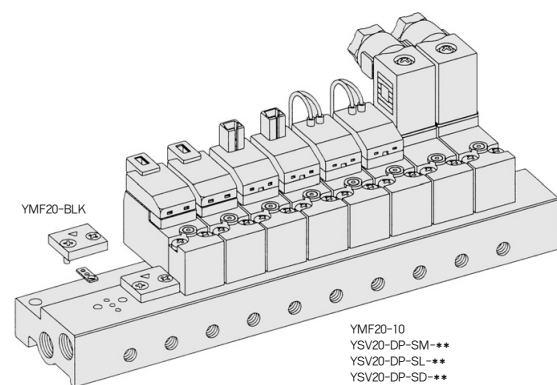
YSV20-DP-SC-CN1-\*\*\*



YSV20-DP-SM-\*\*\*



YSV20-DP-SL-\*\*\*



YMF20-BLK

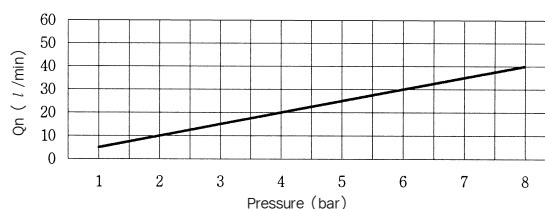
YMF20-10  
YSV20-DP-SM-\*\*\*  
YSV20-DP-SL-\*\*\*  
YSV20-DP-SD-\*\*\*  
YSV20-DP-SC-CN1-\*\*\*

\*\*\*: Voltage Selection

## SPECIFICATION

| SERIES                        | YSV20                           |
|-------------------------------|---------------------------------|
| ITEM / FUNCTION               | 3/2-N.C                         |
| Fluids                        | Compressed Air & Inert Gases    |
| Pressure(bar)                 | 0~8.0                           |
| Orifice( mm )                 | P = $\phi$ 1.1, R = $\phi$ 1.5  |
| Ambient & Fluid Temp.         | 5~60°C (41~140°F)               |
| Response Time(5bar)           | 20ms or Less                    |
| Max. Working Frequency        | 10c/sec                         |
| Lubrication                   | Not Required(Use ISO VG32 #)    |
| Manual Override               | Push Button                     |
| Coil Insulation Class         | F-Class or Equivalent           |
| Permissible Voltage Variation | ±10% of Rated Voltage           |
| Off Min. Residual Voltage     | AC:20% or Less / DC:10% or Less |
| Power Consumption             | AC:3.5VA(60Hz) / DC:2.5W        |

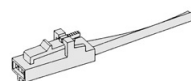
Transition Capacity Graph



## The Material of Parts

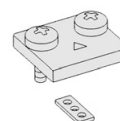
- Pilot Parts : Glass Filled Nylon
- Spring : Stainless
- Seals : NBR
- Armature : Stainless Steel
- Indicator Cap : Polycarbonate
- Lead Wire : AWG-no.24
- Lead Wire Packing : Viton

### Plug Connector With Clip



Ordering Code  
PG2-06 ( L : 600mm )  
PG2-10 ( L : 1,000mm )

### Blanking Plate (Material : Zinc)



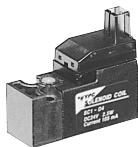
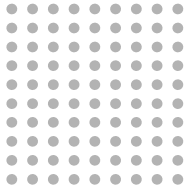
Ordering Code  
YMF20-BLK

※ The specification on each item can be amended without any prenotice to improve a performance.  
※ The specification on each item can be different from actual specification.

## ORDERING NO.

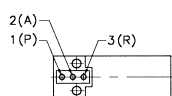
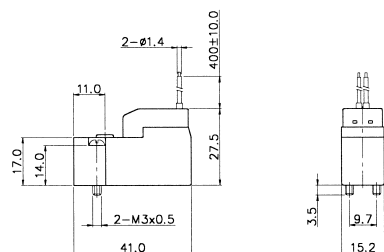
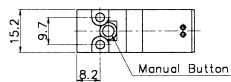
YSV2 0 - D P - SC - CN1 - A2

| Valve Series            | Function                                  | Pilot Source            | Manual Operator          | Solenoid Coil Type                                                                                                                                                                                               | Connector Type                                                                                                       | Voltage                                                                     |
|-------------------------|-------------------------------------------|-------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| YSV2:<br>Solenoid Valve | 0<br>3/2 Normally Closed<br>Spring Return | D<br>Direct<br>Operated | P<br>Push<br>Non-Locking | 0<br>None<br>SC<br>3 Pin Connector Coil<br>SG<br>Grommet/Flying Leads<br>SD<br>Grommet/Flying Leads<br>With LED<br>SL<br>90 Degree Plug-in<br>Wire Assembly LED<br>SM<br>180 Degree Plug-in<br>Wire Assembly LED | 0<br>None<br>CN1<br>Normal Connector<br>CD1<br>Connector With LED<br>CZ1<br>Connector With LED<br>& Surge Suppressor | 0<br>None<br>A2<br>AC 220V<br>A1<br>AC 110V<br>D4<br>DC 24V<br>D2<br>DC 12V |

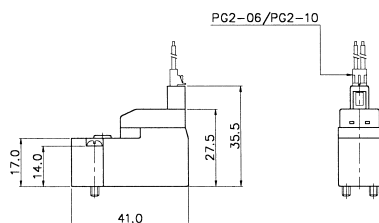


# Direct Solenoid Actuated Valves

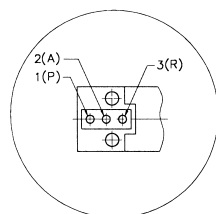
15mm Micro



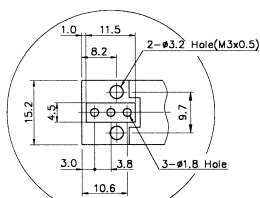
YSV20-DP-SD-\*\*\*  
Normally Closed



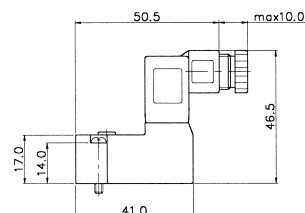
YSV20-DP-SL-\*\*\*  
Normally Closed



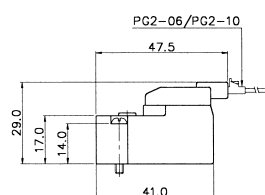
Normally Closed Type



Sealing Area



YSV20-DP-SC-CN1-\*\*\*  
Normally Closed

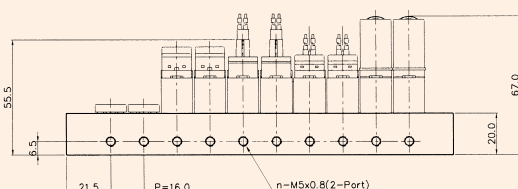
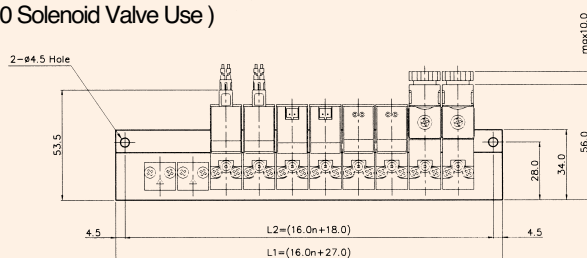


YSV20-DP-SM-\*\*\*  
Normally Closed



## YMF20 MANIFOLD BLOCK

(YSV20 Solenoid Valve Use)



3-PORT MANIFOLD BLOCK DIMENSION n=STATION

| ITEM | n    | 2    | 4     | 6     | 8     | 10    | 12    | 14 |
|------|------|------|-------|-------|-------|-------|-------|----|
| L1   | 50.0 | 82.0 | 114.0 | 146.0 | 178.0 | 210.0 | 243.0 |    |
| L2   | 59.0 | 91.0 | 123.0 | 155.0 | 187.0 | 219.0 | 251.0 |    |

### Manifold Block Ordering Code

|        |       |                  |
|--------|-------|------------------|
| YMF 20 | -     | 2                |
| Symbol |       | Manifold Station |
| YMF20  | 3 Way |                  |
|        |       | 02 2-Station     |
|        |       | 04 4-Station     |
|        |       | 06 6-Station     |
|        |       | 08 8-Station     |
|        |       | 10 10-Station    |
|        |       | 12 12-Station    |
|        |       | 14 14-Station    |

### Blanking Plate Ordering Code

|                                                                                       |                                                 |
|---------------------------------------------------------------------------------------|-------------------------------------------------|
| YMF20-BLK                                                                             |                                                 |
|  | <b>Blanking Plate.</b><br>(Material:Zinc)       |
|  | <b>Blanking Plate Gasket.</b><br>(Material:NBR) |

