

# Series *DS* 6000

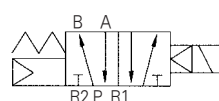
## Elastic Seal 5 Port Pilot Solenoid Type



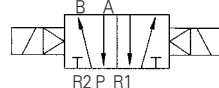
- INTEGRATED SUB-BASE
- COMPACT SIZE AND LIGHT FLOW CAPACITY EFFECTIVE ORIFICE 90mm<sup>2</sup>(Cv 5.0)
- LOW POWER CONSUMPTION -1.8w(DC)
- MANY VARIATIONS AVAILABLE

### 5Port/2Position

DS6140 (PT 3/4)

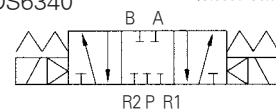


DS6240 (PT 3/4)

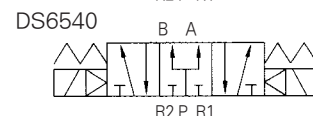
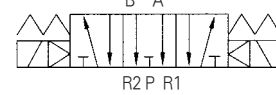


### 5Port/3Position

DS6340 (Closed Center)



DS6440 (Exhaust Center)



## How To Order

**DS 6 1 4 0 — 1 G 06**

1 2 3 4 5 6

### 1 Series

Blank : Rc(PT)Port  
U : NPT

### 2 Type of Actuation

1 : 2 Position Single  
2 : 2 Position Double  
3 : 3 Position Closed Center  
4 : 3 Position Exhaust Center  
5 : 3 Position Pressure Center

### 3 Voltage

1 : AC 110V(50/60Hz)  
2 : AC 220V(50/60Hz)  
5 : DC 24V  
6 : DC 12V

### 4 Electrical Entry/ Indicator Light and Surge Suppression

G : Grommet  
D : DIN Terminal  
DN : DIN Terminal(With indicator Light)  
DZ : DIN Connector(With indicator Light and surge suppressor)

### 5 Thread

Blank : Rc(PT)  
G : Rc(PF)

### 6 Port Size

06 : 3/4

DW

DV100

DV1000 :  
3000 - 4000

DS300

DS3000

DS5000

DS2000

DX2R

DP300 :  
3000 - 5000

DS6000

DX2

DM

DH

DT220

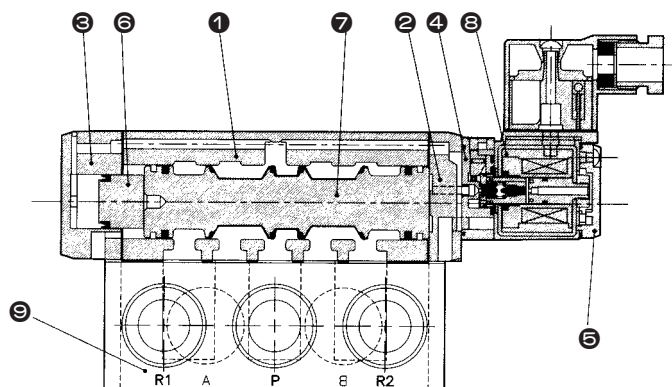
DC

## Specifications

| Model                                  |    |         | DS6140                                        | DS6240 | DS6340              | DS6440       | DS6540 |                         |
|----------------------------------------|----|---------|-----------------------------------------------|--------|---------------------|--------------|--------|-------------------------|
| Fluid                                  |    |         | Air                                           |        |                     |              |        |                         |
| Operating Pressure Range MPa(psi)      |    |         | 0.15~0.99MPa(21~141)                          |        | 0.1~0.99MPa(14~141) |              |        | 0.15~0.99MPa(21~141psi) |
| Effective Orifice mm <sup>2</sup> (Cv) |    |         | 90(5.0)                                       |        |                     | 70(3.89)     |        |                         |
| Ambient and Fluid Temperature          |    |         | Max. 50° C(122° F)                            |        |                     |              |        |                         |
| Response Time(5kgf/cm <sup>2</sup> )   |    |         | 40ms or less                                  |        |                     | 60ms or less |        |                         |
| Max. Operating frequency               |    |         | 5c/s                                          |        |                     | 3c/s         |        |                         |
| Lubrication                            |    |         | Not required                                  |        |                     |              |        |                         |
| Manual Override                        |    |         | Non-locking Push Type                         |        |                     |              |        |                         |
| Impact/Vibration Resistance            |    |         | 30G/5G(8.3~2000HZ)                            |        |                     |              |        |                         |
| Enclosure                              |    |         | Dust Proof                                    |        |                     |              |        |                         |
| Coil Voltage                           |    |         | AC 50/60HZ 110V, 120V, 220V, 240V, DC12V, 24V |        |                     |              |        |                         |
| Allowable Voltage                      |    |         | -15%~+10% of Rated Valtage                    |        |                     |              |        |                         |
| Coil Insulation                        |    |         | Class B or equivalent(130℃)266° F             |        |                     |              |        |                         |
| Apparent Power                         | AC | Inrush  | 5.6VA(50HZ), 5.0VA(60HZ)                      |        |                     |              |        |                         |
|                                        |    | Holding | 4.5VA(50HZ), 3.8VA(60HZ)                      |        |                     |              |        |                         |
| Power Consumption                      |    | DC      | 1.8W/2W(With LED)                             |        |                     |              |        |                         |
| Weight(oz)                             |    |         | 41.27                                         | 42.33  | 42.33               | 43.03        | 43.03  |                         |
| Surge suppressor circuit               |    |         | AC, DC : Varistor                             |        |                     |              |        |                         |
| Indicator Light                        |    |         | LED                                           |        |                     |              |        |                         |

## Construction/Parts List

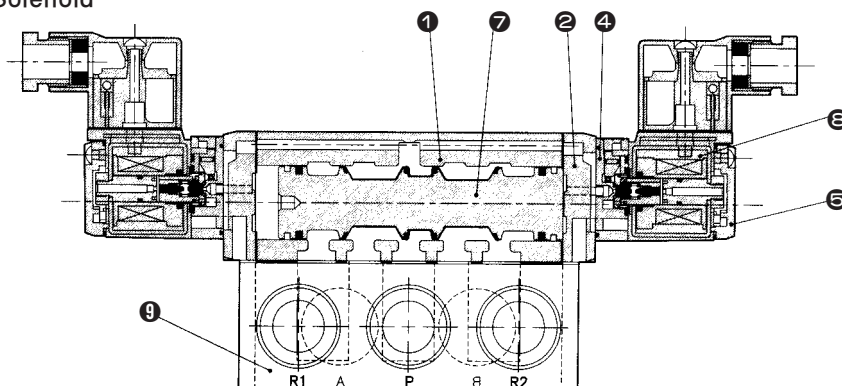
### Single Solenoid



### Main Parts

| No. | Description   | Material       |
|-----|---------------|----------------|
| ①   | Body          | Aluminum       |
| ②   | Adapter Plate | Aluminum       |
| ③   | End Cover     | Aluminum       |
| ④   | Pilot Body    | Polyacetal     |
| ⑤   | Pilot Cover   | Polyacetal     |
| ⑥   | Piston        | Polyacetal     |
| ⑦   | Spool         | Aluminum · NBR |
| ⑧   | Coil Ass' y   | -              |
| ⑨   | Base          | Aluminum       |

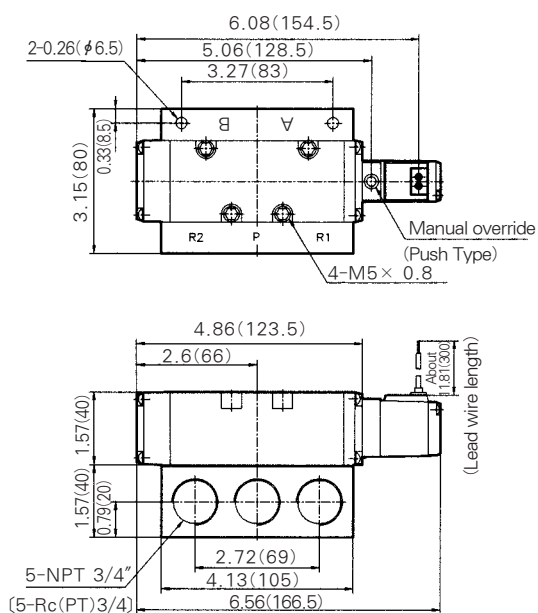
### Double Solenoid



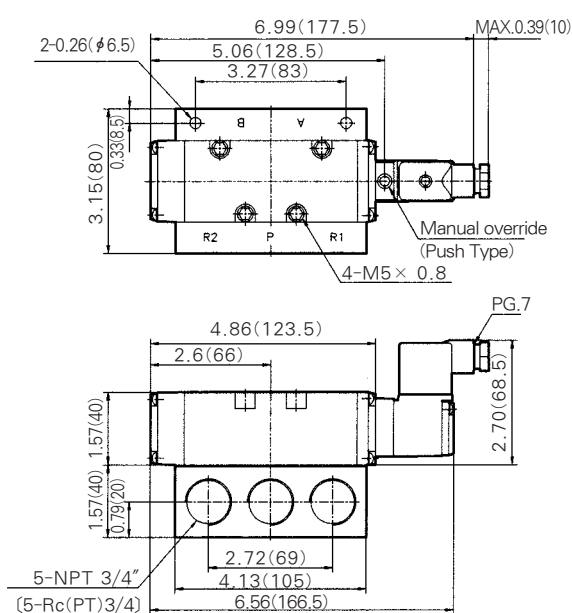
## 2 Position Single Solenoid

inch(mm)

Grommet(G)/DS 6140-OG



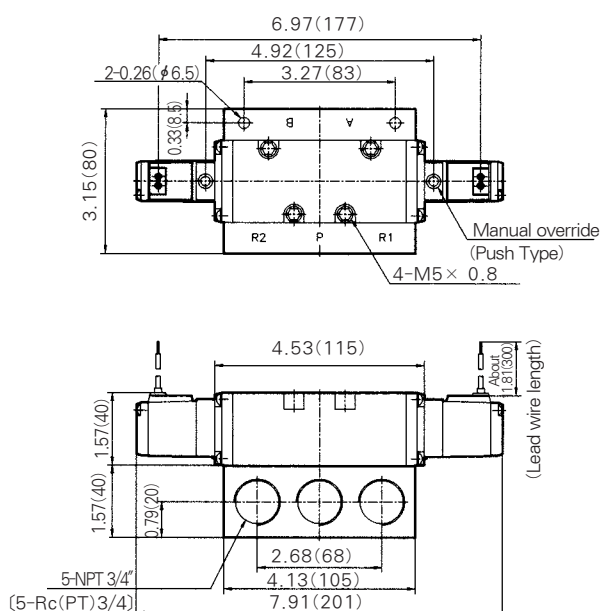
DIN Connector Type (D, DZ) DS6140-○ D  
DZ



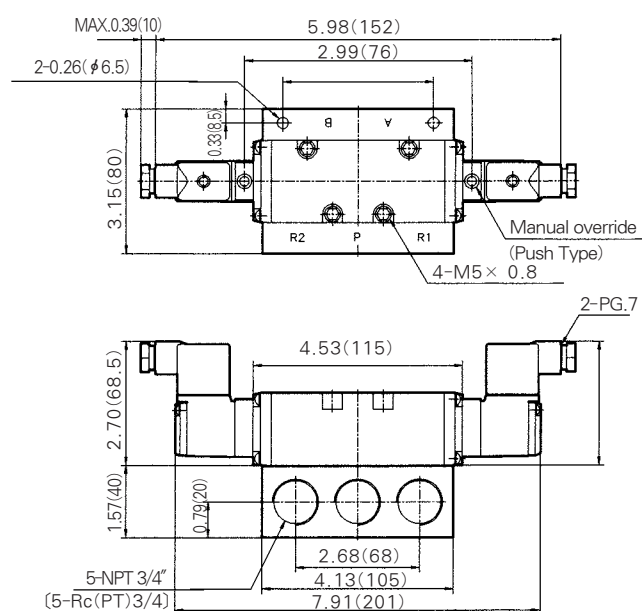
## 2 Position Double Solenoid

inch(mm)

Grommet(G)/DS 6240 - OG



DIN Connector Type (D, DZ) DS6240-○ D  
DZ



DW

DV100

DV1000 ·  
3000 · 4000

DS300

DS3000

DS5000

DS2000

DX2R

DP300 ·  
3000 · 5000

DS6000

DX2

DM

DH

DT220

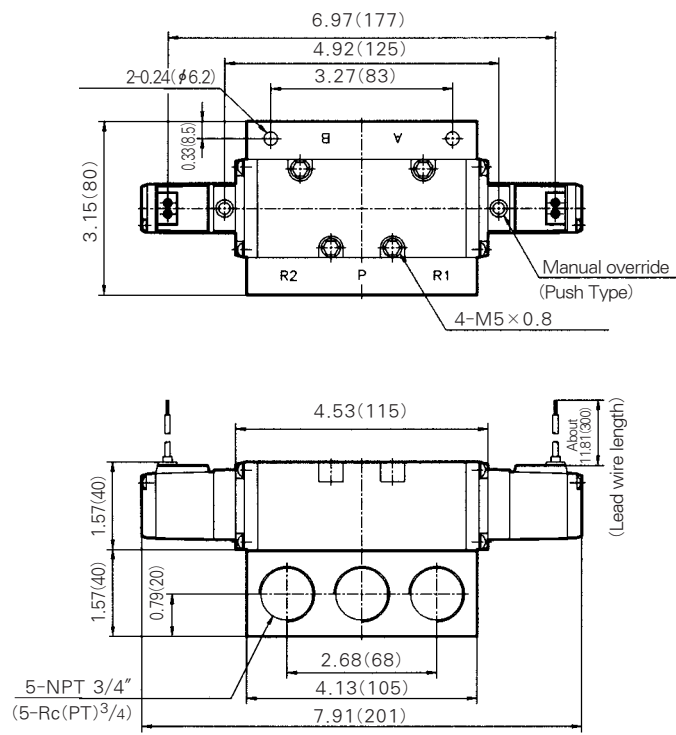
DC

Series DS6000

3 Position Closed Center · Exhaust Center · Pressure Center inch(mm)

Grommet(G)

DS 6300 - OG  
4  
5



DIN Connector Type(D, DZ)

DS 6300 - ○ D  
4      DZ  
5

