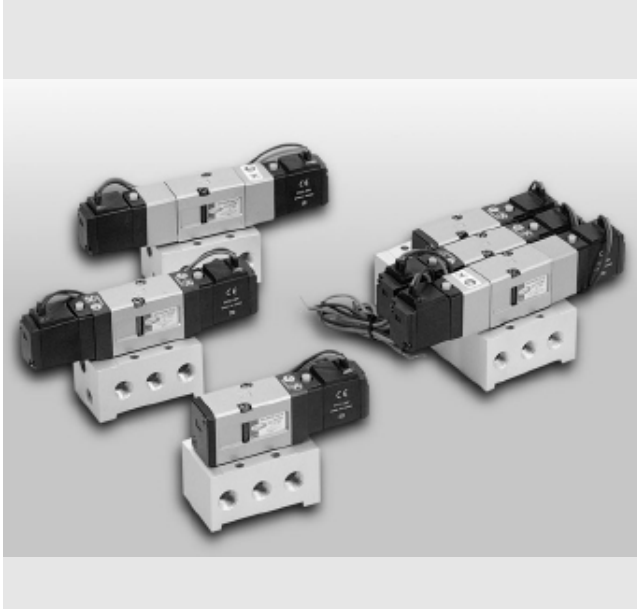


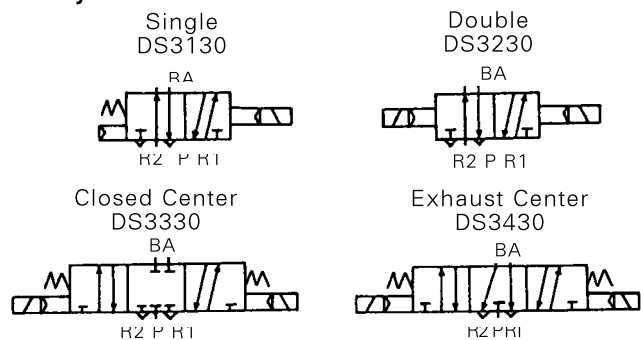
Series **DS3000**

Rubber Seal 5 Port Pilot Solenoid Type

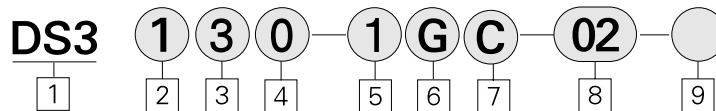


- COMPACT SIZE AND LIGHT WEIGHT
- LARGE FLOW CAPACITY
- LOW POWER CONSUMPTION
- DESIGNED FOR NON-LUBRICATED SERVICE

Symbol



How to Order



1 Series DS3000

2 Type of Actuation

- 1 : 2 Position/Single Solenoid
- 2 : 2 Position/Double Solenoid
- 3 : 3 Position/Closed Center
- 4 : 3 Position/Exhaust Center

3 Body Type

- 3 : for 30 type Manifold, Body Ported

4 Body option

- 0 : Standard
- 3 : Common Exhaust for Main and Pilot Valve

5 Voltage

- 1 : AC100V, 50/60Hz
- 2 : AC200V, 50/60Hz
- 3 : AC120V, 50/60Hz
- 4 : AC240V, 50/60Hz
- 5 : DC24V
- 6 : DC12V

7 : DC6V

8 : AC24V, 50/60Hz

9 : Other

6 Electrical Entry/Indicator Light and Surge Suppressor

- G : Grommet (Lead wire length 300mm)
- DZ : DIN Connector With Indicator light and Surge suppressor

7 Manual Override

- Blank : Non-locking Push type
- C : Knob locking type

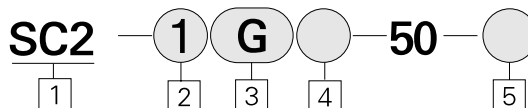
8 Port Size(SUP., CYL.)

- 01 : Rc(PT) 1/8
- 02 : Rc(PT) 1/4 (Exhaust Port: 1/8)

9 Special Option

- Blank : Standard type
- XC16 : Copper-free

Pilot Valve Assembly



1 For DS 3000 series Valve Ass'y

2 Voltage

- 1 : AC100V, 50/60Hz
- 2 : AC200V, 50/60Hz
- 3 : AC120V, 50/60Hz
- 4 : AC240V, 50/60Hz

5 : DC24V

6 : DC12V

7 : DC6V

8 : AC24V, 50/60Hz

9 : Other

3 Electrical Entry/Indicator

Light and Surge Suppressor

- G : Grommet (Lead wire length 300mm)
- DZ : DIN connector With Indicator light and Surge suppressor

4 Manual override

- Blank : Non-Lock Push type
- C : Knob locking type

5 Special Option

- Blank : Standard Type
- XC16 : Copper-Free

Specifications

Fluid		Air
Operating Pressure Range	2 Position Single · 3 Position	1.5~9 kgf/cm ² {0.15~0.9MPa}
	2 Position Double	1~9 kgf/cm ² {0.1~0.9MPa}
Ambient and Fluid Temperature		50℃
Response Time	3 Position Single/Double	30 ms or less {0.5 MPa}
	2 Position	40 ms or less {0.5 MPa}
Max. Operating Frequency	2 Position Single/Double	5 Hz
	3 Position	3Hz
Lubrication		Not Required※
Manual Override		Non-lock Push Type, Knob Lock type
Mounting Position		Free
Impact/Vibration Resistance		30 G/5 G(8.3~2000 Hz)
Enclosure		Dust Proof
Pilot Exhaust		Individual exhaust, Common exhaust for main valve and pilot valve
Electrical entry		Grommet, DIN connector
Coil Voltages	AC 50/60Hz	100 VAC, 200 VAC, 120 VAC, 240 VAC
	DC	6 VDC, 12 VDC, 24 VDC
Allowable Voltage		-15~+10% of rated voltage
Power Consumption	AC	Inrush 5.6 VA (50 Hz), 5.0 VA (60 Hz)
		Holding 3.4 VA (50Hz), 2.3 VA (60 Hz)
	DC	1.8W/2W(With LED)
Indicator Light/Surge	AC	LED, Varistor
Suppressor Circuit	DC	LED, Varistor

※ If provided, use Furber 0.1(ISO VG #32)

Accessories/Options

Description	Model	Application
Silencer	SN110-01	Rc(PT) 1/8

Model

Piping	Type	Position/Solenoid	⁽¹⁾ Port Size (SUP,CYL.)	Effective orifice mm ² (Cv factor)		Weight (kgf)
				Rc(PT) 1/8	Rc(PT) 1/4	
Body Ported	DS3130-○○- ⁰¹ / ₀₂	2 Single Solenoid	PT1/8	14.4(0.8)	18(1.0)	0.21
	DS3230-○○- ⁰¹ / ₀₂	2 Double Solenoid		14.4(0.8)	18(1.0)	0.29
	DS3330-○○- ⁰¹ / ₀₂	3Position Closed Center	PT 1/4	11.7(0.65)	14.4(0.8)	0.44
	DS3430-○○- ⁰¹ / ₀₂	3Position Exhaust Center		14.4(0.8)	18(1.0)	0.44

(1) Body Ported Valve can be directly mounted on Manifold, type B, Common exhaust

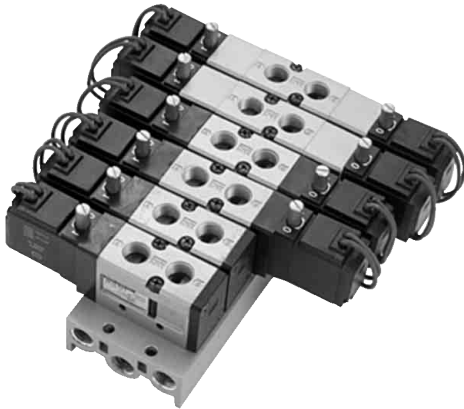
(2) Weight is for Grommet type.

(3) In case of Body Ported, Exhaust Port is only 1/8.

Model for Manifold

Model	Manifold			
	Type	Exhaust	A,B(CYL') Port	
DS3○30-○○- ⁰¹ / ₀₂	B Mount	30	Common	Valve

Manifold



DSM3-30-061

(Example) DSM3-3-061...1pc
 DS3130-OGC...02...2 pcs
 DS3230-OGC...02...2 pcs
 DS3330-OGC...02...2 pcs

Manifold Specifications

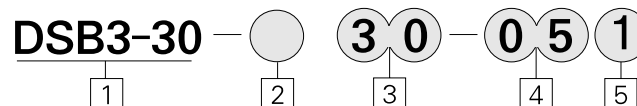
Manifold Type	B Mount(Single Base Type)	
Exhaust	Common	Individual(Pilot)
Maximum Stations	20 Stations※	

※ If there are more than 8 stations supply from both sides of supply (SUP.) Port and exhaust from both sides of exhaust(EXH.) Port.

Manifold Type	Moel	Exhaust	Piping Port location			Port Size			Applicable Valve
			P(SUP)	R(EXH)	A,B(CYL)	P(SUP)	R(EXH)	A,B(CYL)	
B Mount	DSM3-30	Common	Side/Base	Side/Base	Top/Valve	1/4	1/4	1/8 1/4	DS3○30

How To Order Manifold Base

Manifold Base



1 Manifold
for DS3000 series

2 Thread
Blank : Rc(PT)
DSM3 Series : NPT

3 Manifold Specifications
Code : 30
Port location for CYL. port : Valve
Port size for EXH. : Rc(PT) 1/4
Applicable : DS3○30
Note : Please order the appropriate Valve and / or Blanking plate ass'y with Manifold base.

4 Stations
02 : 2 stations
...
20 : 20 stations

5 Component Symbol
Code : 1
Passage
P(SUP) : Common
R(EXH) : Common
Piping
A, B(CYL):Top
Applicable Manifold type : 30

Blanking Plate (Including Gasket and Bolts)

DSB3-30

DW

DS

DV

DX2

DP

DM

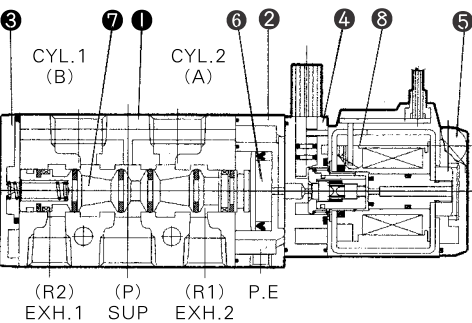
DH

DT

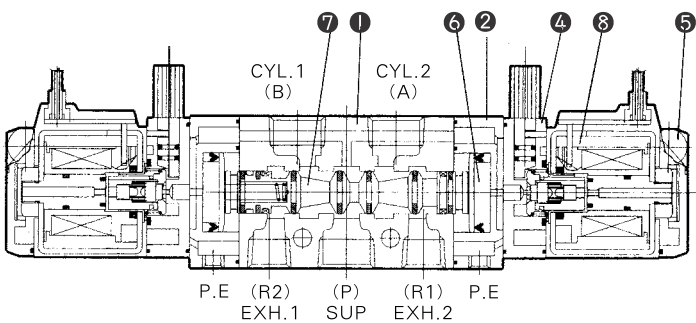
DC

Construction

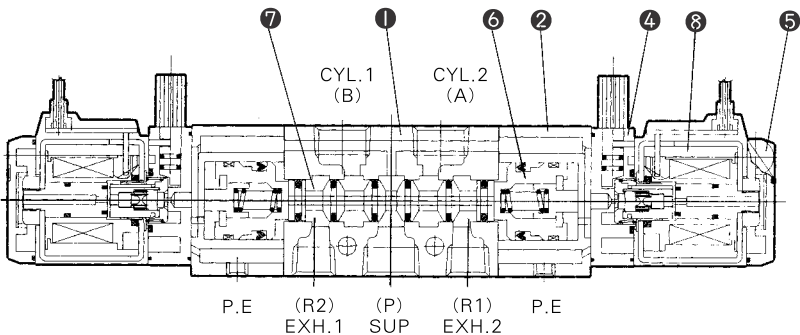
Single Solenoid



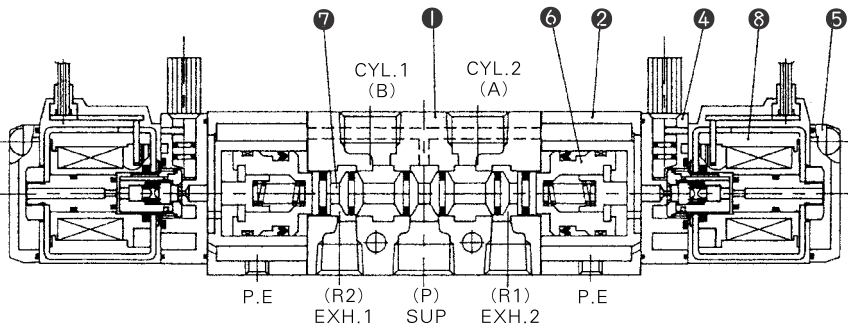
Double Solenoid



3 Position Closed Center



3 Position Exhaust Center



Main parts

No.	Description	Material	Notes
①	Body	Aluminum die casting	Metallic paint
②	Adapter Plate	Resin**	Black*
③	End Cover	Aluminum Die Casting	Black
④	Pilot Body	Polyacetal	
⑤	Pilot Cover	Polyacetal	
⑥	Piston	*** Polyacetal	
⑦	Spool	Aluminum · NBR	
⑧	Sub-Plate	Aluminum Die Casting	Metallic

※ 3 Position : Aluminum ※※ 3 position : Aluminum Die Casting
※※※ 3 Position : Metallic Paint

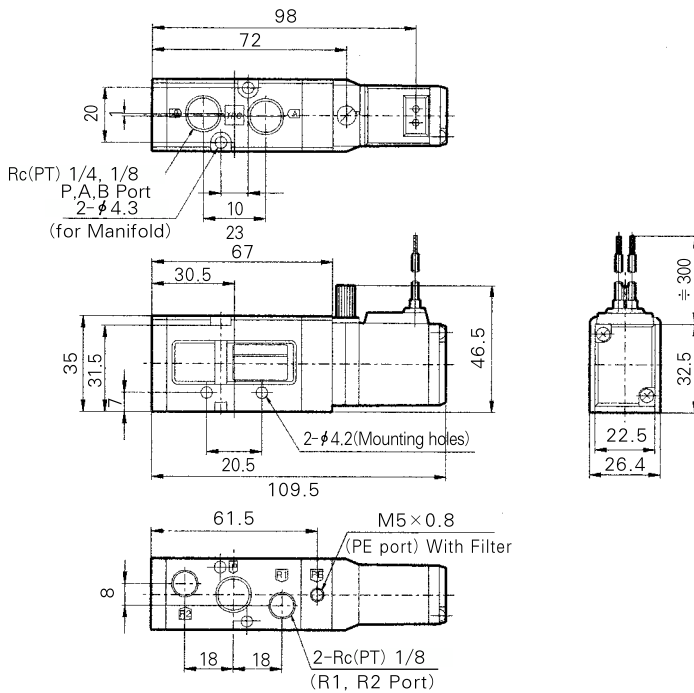
Spare Parts

No.	Description	Material	Notes
⑧	Pilot Valve Assembly	-	-

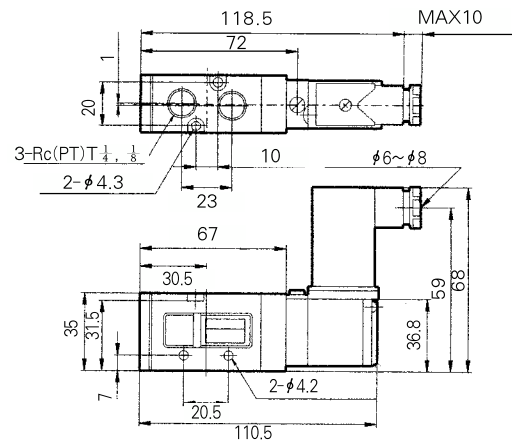
Body Ported/2 Position Single Solenoid

(mm)

Grommet/DS3130-○OG



DIN Connector/DS3130-○D



DW

DS

DV

DX2

DP

DM

DH

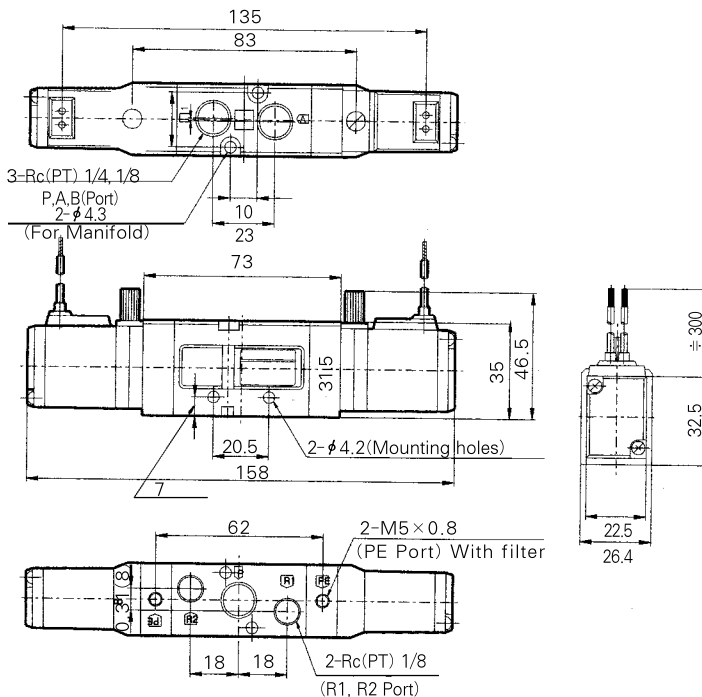
DT

DC

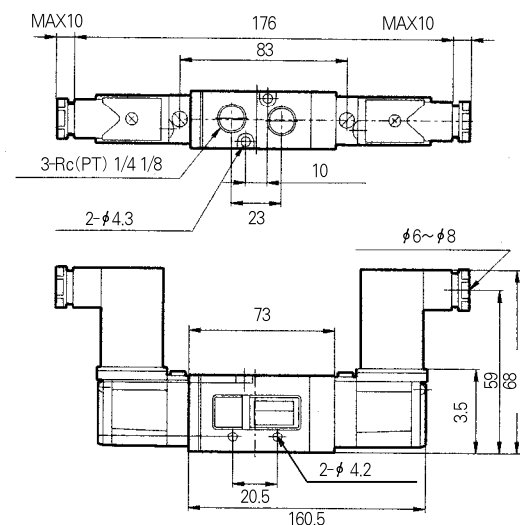
Body Port/2 Position Double Solenoid

(mm)

Grommet/DS3230-○GC



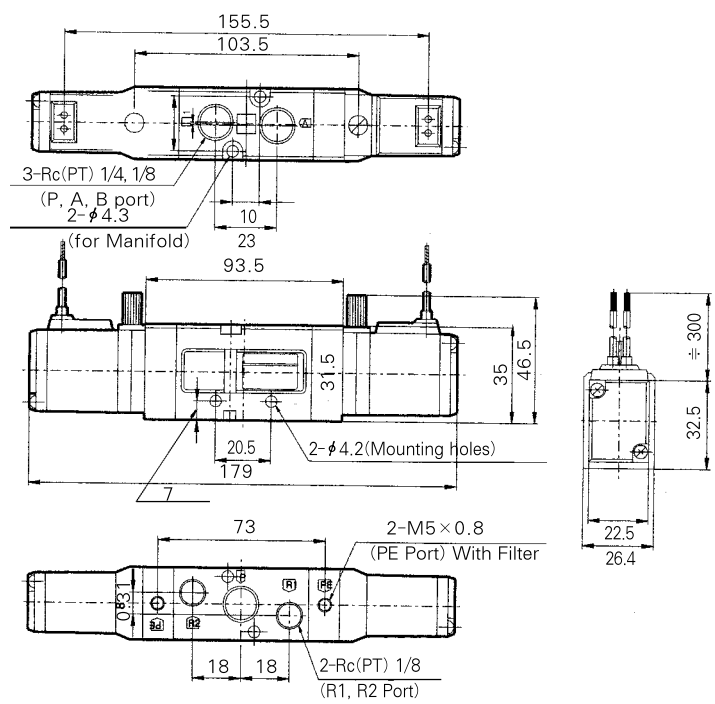
DIN Connector/DS3230-○DZ



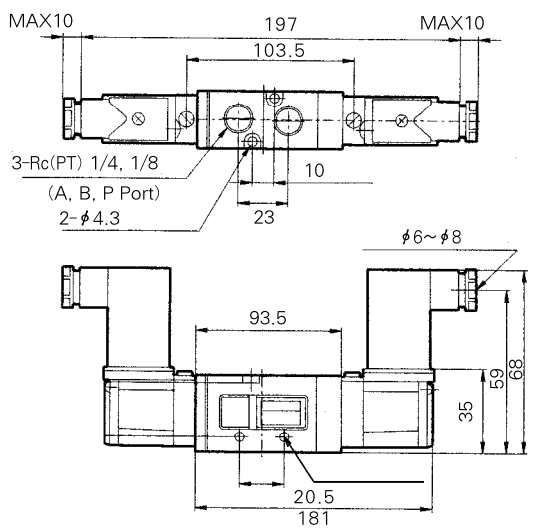
Series DS3000

Body Ported/3 Position Double Solenoid (mm)

Grommet/DS3330-○G, DS3430-○G

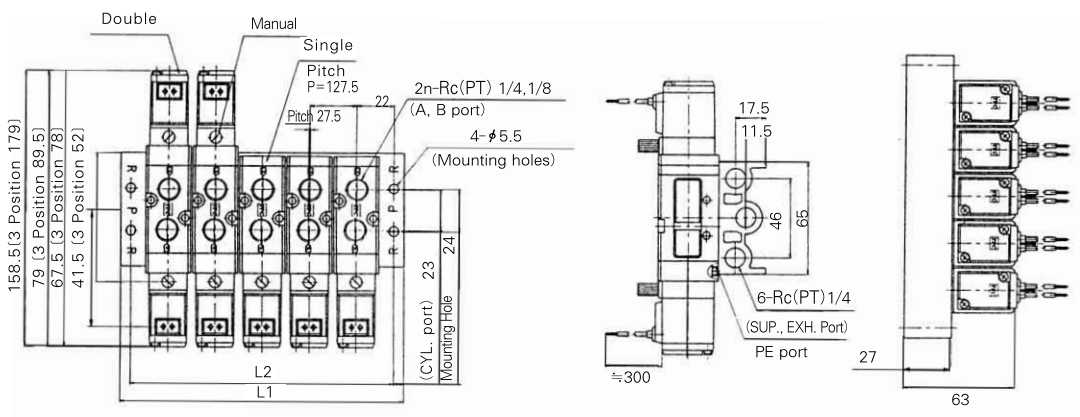


DIN Connector/DS3330-○DZ
DS3430-○DZ



B Mount Type/Dimensions DSM3-30 (mm)

Common Exhaust/DSM3-30-○○1



L:Size N = Stations

	mm																		
Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	83.5	111	138.5	166	193.5	221	248.5	276	303.5	331	358.5	386	413.5	441	468.5	496	523.5	551	578.5
L2	71.5	99	126.5	154	181.5	209	236.5	264	291.5	319	346.5	374	401.5	429	456.5	484	511.5	539	566.5