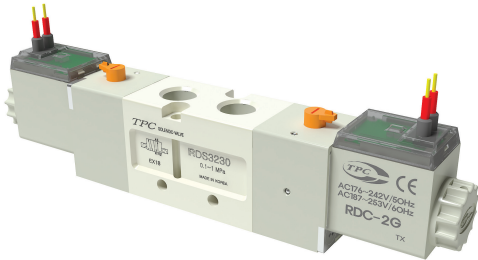


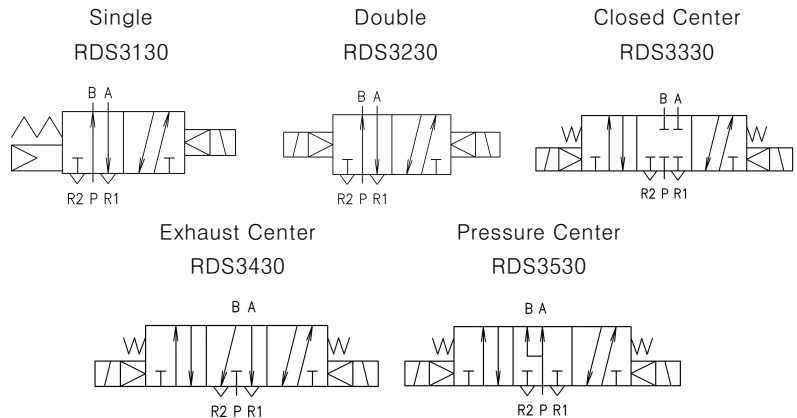
RDS3000 Series

Rubber Seal 3port Pilot Type



- Upgraded performance and quality
- RoHs Compliant with Eco-friendly materials.
- Lamp turn-on for Identification of operation status
- Made with environment friendly materials
- White color design
- Easy to replace coil

Symbol



HOW TO ORDER

U RDS **3 1 3 0** - **1** **G** - **01** - **XWL * ***

1 2 3 4 5 6 7

1 RDS3000 Series
Blank : Metric Rc(PT)
U : NPT

2 Type of Actuation
1 : Single
2 : Double
3 : Closed Center
4 : Exhaust Center
5 : Pressure Center

3 Manifold specifications
0 : Base mounted
3 : Body Ported

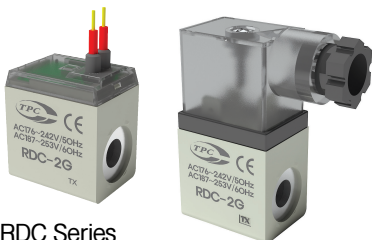
4 Coil Voltage
1: AC110V, 50/60HZ
2: AC220V, 50/60HZ
3: AC120V, 50/60HZ
4: AC240V, 50/60HZ
5: DC24V
6: DC12V
8: AC24V, 50/60HZ
9: DC100V

5 Electrical Entry
G : Grommet(Lead wire length 300mm)
D : DIN Connector
DZ : DIN Connector(Lamp • Surge voltage protecting circuit attached)
N : DIN type (connector not included)

6 Port Size(sup cyl')
01: Rc(PT)1/8
02: Rc(PT)1/4

7 Length of Lead wire
Blank : 300mm
XWL 01 : 100mm
XWL 02 : 200mm
:
XWL 02 : 2000mm
※ Integrated push & lock type is standard option for manual operation.

RDC Series



HOW TO ORDER

RDC **1** **G** - **XWL * ***

1 2 3 4

1 RDC Series

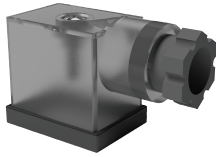
2 Coil Voltage
1: AC110V, 50/60HZ
2: AC220V, 50/60HZ
3: AC120V, 50/60HZ
4: AC240V, 50/60HZ
5: DC24V
6: DC12V

8: AC24V, 50/60HZ
9: DC100V

3 Electrical Entry
G : Grommet(Lead wire length 300mm)
D : DIN Connector
DZ : DIN Connector(Lamp • Surge voltage protecting circuit attached)
N : DIN type(connector not included)

4 Length of Lead wire
Blank : 300mm
XWL01: 100mm
XWL02: 200mm
:
XWL20: 2000mm

DIN TERMINAL BOX Order form



TVF3130-61-2005

Additional
Symbol

1

1 Additional Symbol

Additional Symbol	Rated Voltage
①	AC110V, 50/60Hz
②	AC220V, 50/60Hz
③	AC120V, 50/60HZ
④	AC240V, 50/60HZ
⑤	DC24V
⑥	DC12V
⑧	AC24V, 50/60HZ
⑨	DC100V

■ Notice

Please fully understand the safety notice before operating this item.

Specifications

Type		Specifications
Fluid		Air
Operating Pressure Range(MPa)	2 Position Single, 3 Position	0.15 ~ 1.0 MPa [0.2~1.0kgf/cm ²]
	2 Position Double	0.1 ~ 1.0MPa
Ambient and Fluid temperature		5~50℃
Response time(ms)	2 Position Single, Double	under 40ms
	3 Position	under 50ms
Max. Operating Frequency(Hz)	2 Position Single, Double	5 c/s
	3 Position	3 c/s
Lamp(LED)		Standard
Manual operation		PUSH & LOCK
Electrical Entry		Grommet. DIN terminal
Lubrication		Not Required
Coil rated Voltage	AC(50/60)Hz	110V, 220V
	DC	24V
Apparent power	Apparent power(AC)	5.0VA(50Hz), 4.0VA(60Hz)
	Power consumption(DC)	3.0 / 3.2W(with LED)

Option

Description	Part number	Port Size
Silencer	SN110-01	Rc(PT) 1/8

Type

Piping	Type	Type of actuation	⁽¹⁾ PORT SIZE (SUP,CYL.)	⁽²⁾ Effective Orifice mm ² (Cv)		Weight (kgf)
				Rc(PT)1/8	Rc(PT)1/4	
Body Ported	RDS3130-○○- ⁰¹ / ₀₂	2 Position Single	Rc(PT)1/8 · Rc(PT)1/4	14.4(0.8)	18(1.0)	0.21
	RDS3230-○○- ⁰¹ / ₀₂	2 Position Double		14.4(0.8)	18(1.0)	0.32
	RDS3330-○○- ⁰¹ / ₀₂	3 Position Closed Center		11.7(0.65)	14.4(0.8)	0.33
	RDS3430-○○- ⁰¹ / ₀₂	3 Position Exhaust Center		14.4(0.8)	18(1.0)	0.33
	RDS3530-○○- ⁰¹ / ₀₂	3 Position Pressure Center		18(1.0)	21(1.2)	0.33

(1) Exhaust port(R1, R2) is Rc(PT) 1/8"

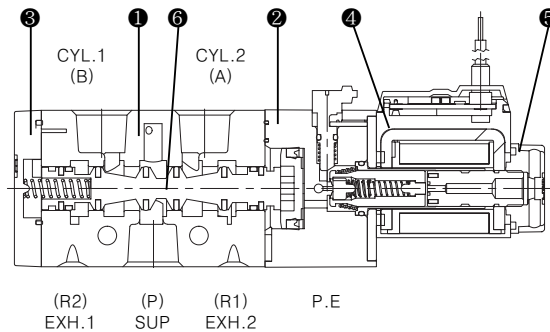
(2) Exhaust effective sectional area is relatively different from supply sectional area. Moreover, it shows possibly speed difference owing to exhaust features of RDS3230 and RDS3430.

Manifold Type

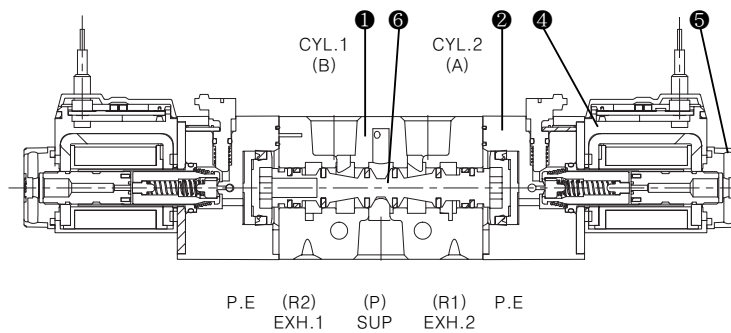
Type	Manifold Type			
	Type		EXH Method	A,B(CYL)Port piping
RDS3○30-○○- ⁰¹ / ₀₂	B mount	30 Type	Common	Valve

Constuction/Parts List

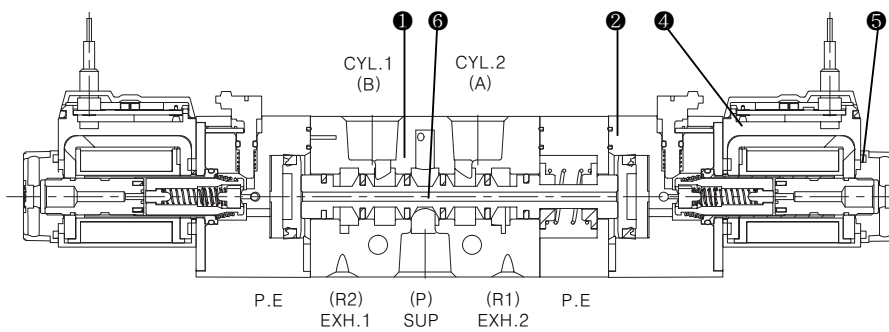
Single Solenoid



Double Solenoid



3 Position Solenoid

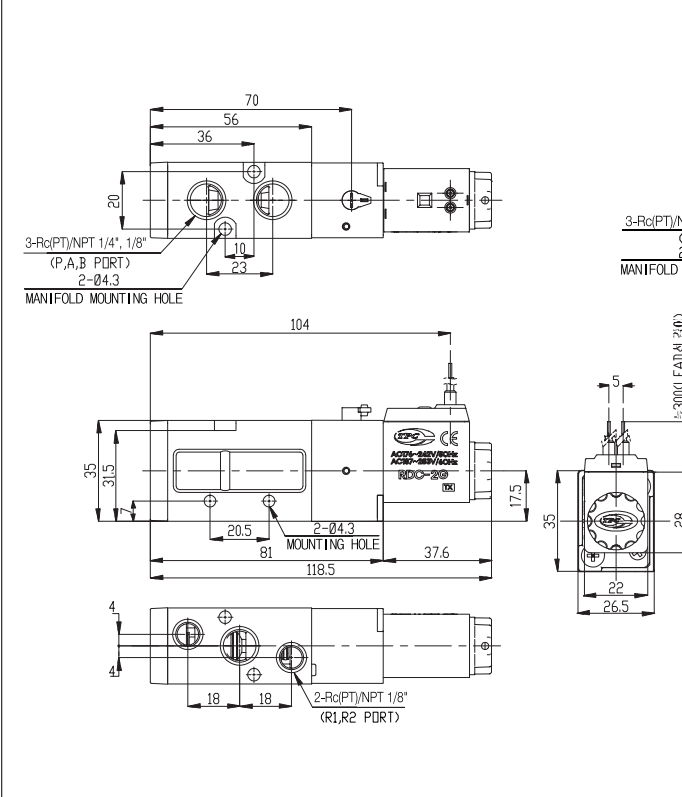


Main Parts

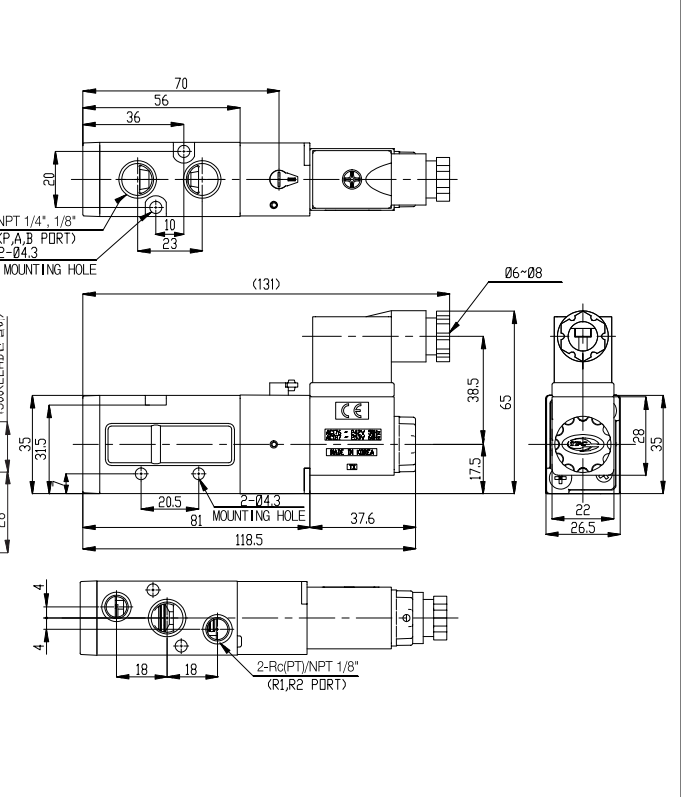
NO.	Description	Material	Remarks
①	Body	Aluminum die casting	White paint
②	Adapter Plate A	Resin	
③	End Cover	Resin	
④	Coil Ass'y	—	
⑤	Core Fixed Nut	Resin	
⑥	Spool	Aluminum	

Body Ported/2 Position Single Solenoid
--

Grommet/RDS3130-OG

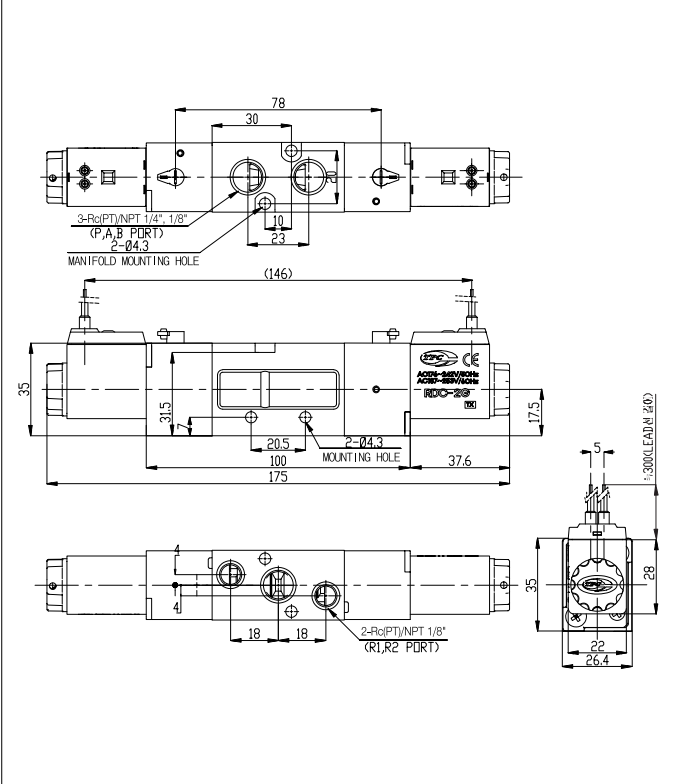


DIN Connector/RDS3 130-○D(DZ)

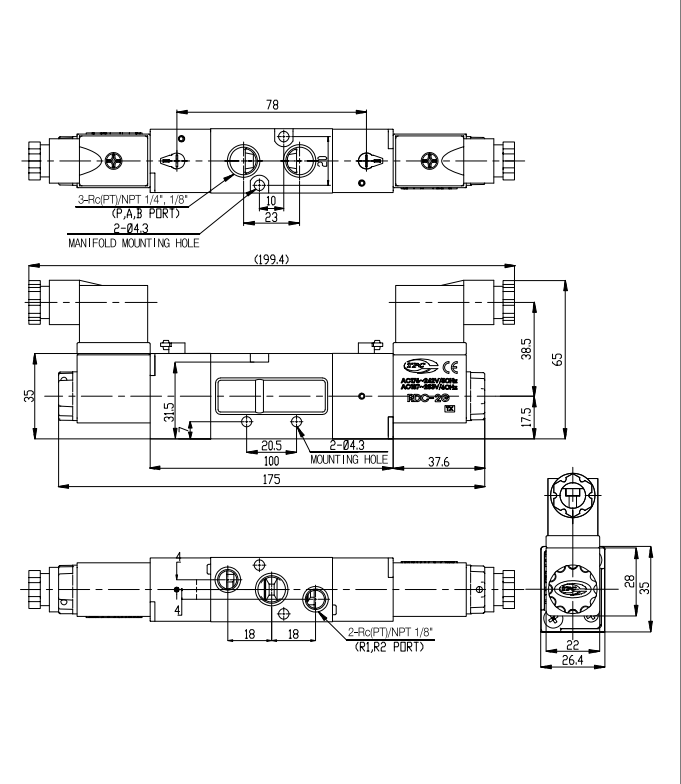


Body Ported/2 Position Double Solenoid
--

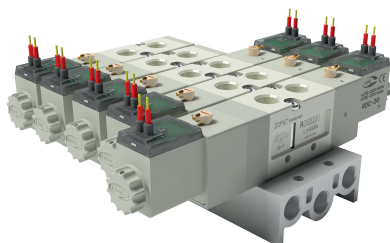
Grommet/RDS3230-OG



DIN Connector/RDS3230-○D(DZ)



Manifold



TVV5F3-30

Types · Specifications

Manifold Type	B Mount(Single Base type)	
EXHAUST Port Type	Common	Single
⁽¹⁾ Maximum valve connection number	20 Stations	

(1) For more than 8 stations of B mounting type, pressurized at both ends of P(SUP) port and exhausted by both R(EXH) ports.

Types · Specifications

Type	Manifold Base type	⁽¹⁾ R(EXH) Type	Piping Direction/Connect Location			PORT SIZE Rc(PT)			Applied Valve Type
			P(SUP)	R(EXH)	A,B(CYL)	P(SUP)	R(EXH)	A,B(CYL)	
B Mount	TVV5F3-30	Common	Transverse	Transverse	Upper	1/4	1/4	1/8 1/4	RDS3○30
			Base	Base	Valve				

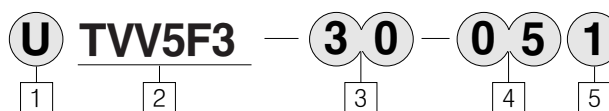
(1) The type of P port is common.

Blank Plate

TVF3130-83A

(Gasket and bolt included)

Manifold Base Order form



1 Manifold
Blank : Metric(PT)
U : NPT

2 RDS3000 Series Manifold

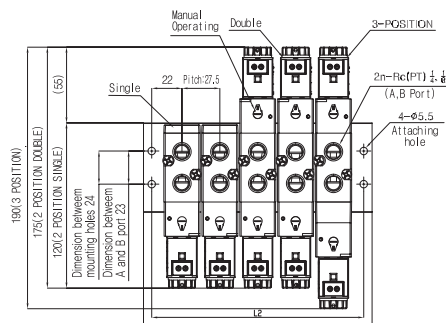
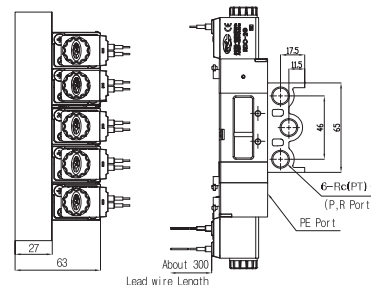
3 Manifold Specification
Symbol : 30
A,B(CYL) port piping position : Valve
Port size : Rc(PT)1/4
Applied Valve : RDS3○30

4 Stations
02 : 2 Stations
20 : 20 Stations

5 Component Symbol
Symbol : 1
Passage Specification
P(SUP) : Common
R(EXH) : Common
Piping Specification
A, B(CYL):Upper(Transverse)
Remark : 30 Type

B Mount Type/TVV5F3 - 30

Common EXH/TVV5F3 - 30 - ○○1



L:Dimension Sheet

(n:stations)

L	n	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