

F.R.L.  
F.R.  
F (Filtr)  
R (Reg)  
L (Lub)  
Drain  
Separ  
Mech  
Press SW  
Res press  
exh valve  
SlowStart  
Anti-bac/Bac-  
remove Filt  
Film  
Resist FR  
Oil-ProhR  
Med  
Press FR  
No Cu/  
PTFE FRL  
Outdrs FRL  
Adapter  
Joiner  
Press  
Gauge  
CompFRL  
LgFRL  
PrecsR  
VacF/R  
Clean FR  
ElecPneR  
AirBoost  
Speed Ctrl  
Silncr  
CheckV/  
other  
Fit/Tube  
Nozzle  
Air Unit  
PrecsCompn  
Electro  
Press SW  
ContactSW  
AirSens  
PresSW  
Cool  
Air Flo  
Sens/Ctrl  
WaterRtSens  
TotAirSys  
(Total Air)  
TotAirSys  
(Gamma)  
Gas  
generator  
RefrDry  
DesicDry  
HiPolymDry  
MainFiltr  
Dischrg  
etc  
Ending



Rotary fitting

# RJF Series

● Port size: M5, Rc1/8

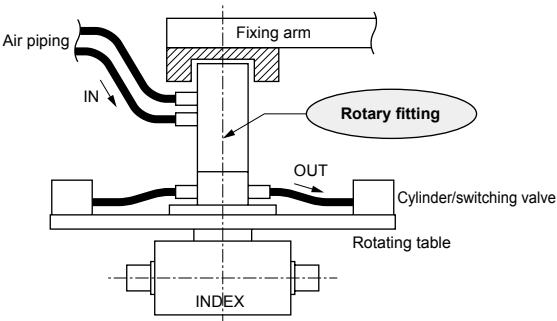


## Features

- Built-in bearing for high rigidity/low sliding resistance
- Ample lineup includes 4/6/8/12/16 circuits.
- Space saving type is available for 12/16 circuits.
- M5 and Rc 1/8 port sizes are available.  
(Number of circuits: 4/6/8)

## Applications

This fitting supplies compressed air to the air cylinder for rotary shaft parts such as indexing table, rotary table or rotary drum, and for air blowing or changeover valves.



## Specifications

| Item                                           | RJF-M5-04                                                     | RJF-6A-04 | RJF-M5-06 | RJF-6A-06 | RJF-M5-08 | RJF-6A-08 | RJF-M5-12 | RJF-M5-16 | RJF-M5-12-S | RJF-M5-16-S |
|------------------------------------------------|---------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|
| Working fluid                                  | Compressed air                                                |           |           |           |           |           |           |           |             |             |
| Working pressure                               | -100 kPa (≈-15 psi, -1 bar) (*1) to 0.7 MPa (≈100 psi, 7 bar) |           |           |           |           |           |           |           |             |             |
| Ambient temperature °C                         | 5 (41°F) to 60 (140°F)                                        |           |           |           |           |           |           |           |             |             |
| Number of circuits                             | 4                                                             |           | 6         |           | 8         |           | 12        | 16        | 12          | 16          |
| Port size                                      | M5                                                            | Rc1/8     | M5        | Rc1/8     | M5        | Rc1/8     | M5        | M5        | M5          | M5          |
| Tolerable rotation rate (*2) min <sup>-1</sup> | 350                                                           | 240       | 240       | 170       | 200       | 140       | 175       | 155       | 100         | 90          |
| Rotation resistance N·m                        | 0.05                                                          | 0.07      | 0.12      | 0.17      | 0.2       | 0.4       | 0.85      | 1.5       | 0.85        | 1.3         |
| Min. air port sectional area mm <sup>2</sup>   | 4.9                                                           | 12.5      | 4.9       | 12.5      | 4.9       | 12.5      | 4.9       | 4.9       | 4.9         | 4.9         |
| Weight Kg                                      | 0.11                                                          | 0.28      | 0.16      | 0.50      | 0.38      | 0.90      | 0.70      | 1.30      | 0.93        | 1.23        |

\*1: Vacuum cannot be retained.  
\*2: Number of rotations per minute.

## How to order

**RJF** - **M5** - **04** -

Model No.

Ⓐ Port size

Ⓑ Number of circuits

Ⓒ Shape

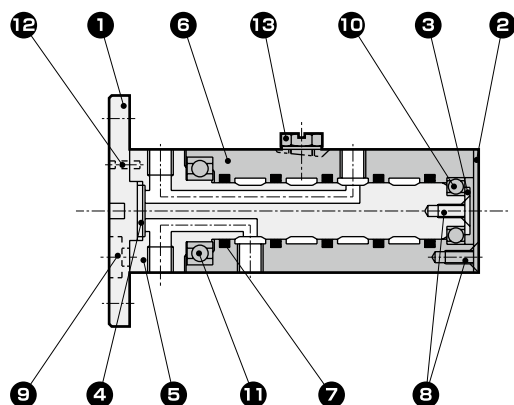
| Code                        | Description            |
|-----------------------------|------------------------|
| <b>Ⓐ Port size</b>          |                        |
| <b>M5</b>                   | M5                     |
| <b>6A</b> *1                | Rc1/8                  |
| <b>Ⓑ Number of circuits</b> |                        |
| <b>04</b>                   | 4 pcs.                 |
| <b>06</b>                   | 6 pcs.                 |
| <b>08</b>                   | 8 pcs.                 |
| <b>12</b>                   | 12 pcs.                |
| <b>16</b>                   | 16 pcs.                |
| <b>Ⓒ Shape</b>              |                        |
| <b>Blank</b>                | Basic                  |
| <b>S</b> *2                 | Space saving structure |

\*1: Only for 04/06/08 number of circuits.  
\*2: Only for 12/16 number of circuits.

### Internal structure and parts list

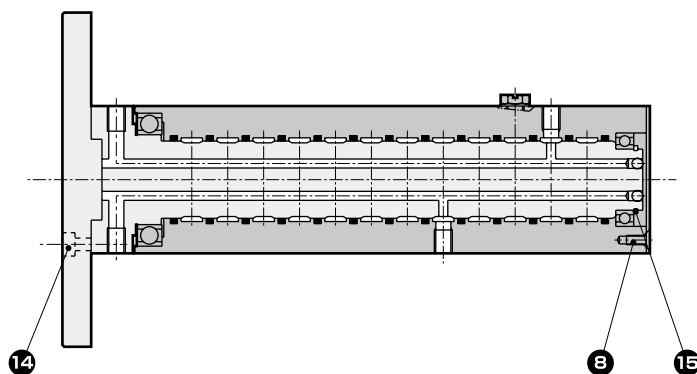
#### ● RJF-M5-04

06  
08  
6A-04  
06  
08



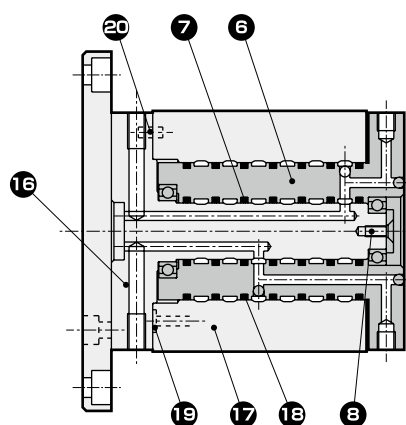
#### ● RJF-M5-12

16



#### ● RJF-M5-12-S

16-S



### Parts list

| No. | Part name                              | Material        | No. | Part name                           | Material                      |
|-----|----------------------------------------|-----------------|-----|-------------------------------------|-------------------------------|
| 1   | Mounting flange                        | Aluminum alloy  | 11  | Single row deep groove ball bearing | Steel bearing                 |
| 2   | Fixed side body lid                    | Stainless steel | 12  | Parallel pin                        | Steel bearing                 |
| 3   | Bearing holder                         | Stainless steel | 13  | Plug                                | Copper alloy, stainless steel |
| 4   | Gasket                                 | Nitrile rubber  | 14  | Hexagon socket head cap screw       | Stainless steel               |
| 5   | Rotating side body                     | Aluminum alloy  | 15  | C type snap ring                    | Stainless steel               |
| 6   | Fixed side body                        | Aluminum alloy  | 16  | Rotating side body 1                | Aluminum alloy                |
| 7   | Packing                                | Nitrile rubber  | 17  | Rotating side body 2                | Aluminum alloy                |
| 8   | Cross-recessed flat head machine screw | Stainless steel | 18  | Packing                             | Nitrile rubber                |
| 9   | Truss machine screw                    | Stainless steel | 19  | Gasket                              | Nitrile rubber                |
| 10  | Single row deep groove ball bearing    | Steel bearing   | 20  | Parallel pin                        | Steel bearing                 |

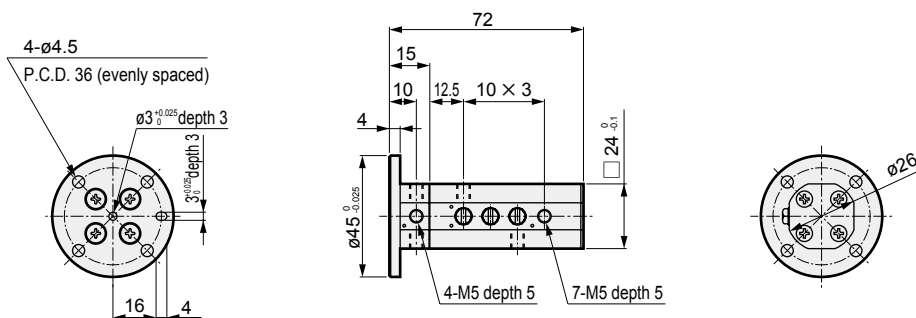
|                            |
|----------------------------|
| F.R.L.                     |
| F.R.                       |
| F (Filtr)                  |
| R (Reg)                    |
| L (Lub)                    |
| Drain Separ                |
| Mech Press SW              |
| Res press exh valve        |
| SlowStart                  |
| Anti-bac/Bac-remove Filt   |
| Film Resist FR             |
| Oil-ProhR                  |
| Med Press FR               |
| No Cu/ PTFE FRL            |
| Outdrs FRL                 |
| Adapter Joiner Press Gauge |
| CompFRL                    |
| LgFRL                      |
| PrecsR                     |
| VacF/R                     |
| Clean FR                   |
| ElecPneuR                  |
| AirBoost                   |
| Speed Ctrl                 |
| Silncr                     |
| CheckV/ other              |
| Fit/Tube                   |
| Nozzle                     |
| Air Unit                   |
| PrecsCompn                 |
| Electro Press SW           |
| ContactSW                  |
| AirSens                    |
| PresSW Cool                |
| Air Flo Sens/Ctrl          |
| WaterRISens                |
| TotAirSys (Total Air)      |
| TotAirSys (Gamma)          |
| Gas generator              |
| RefrDry                    |
| DesicDry                   |
| HiPolymDry                 |
| MainFiltr                  |
| Dischrg etc                |
| Ending                     |

|                            |
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| DesicDry                   |
| HiPolymDry                 |
| MainFiltr                  |
| Dischrg etc                |
| Ending                     |

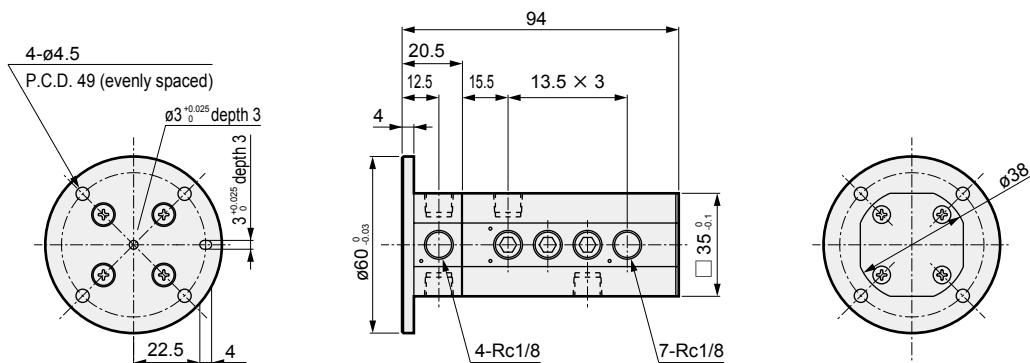
## Dimensions (basic)



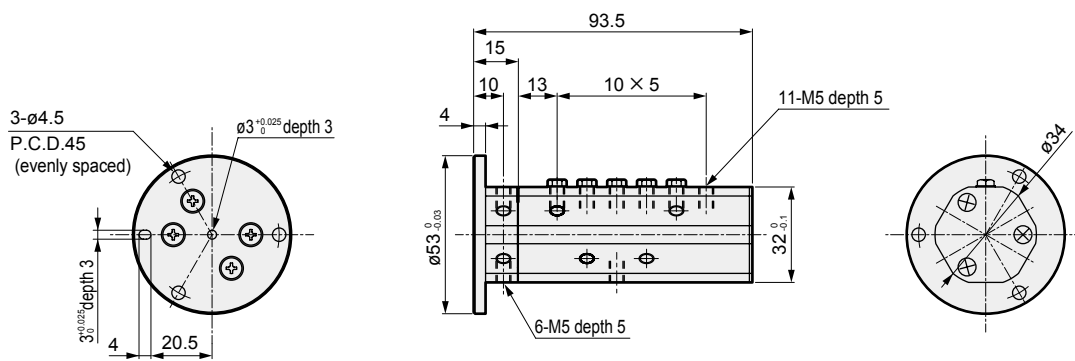
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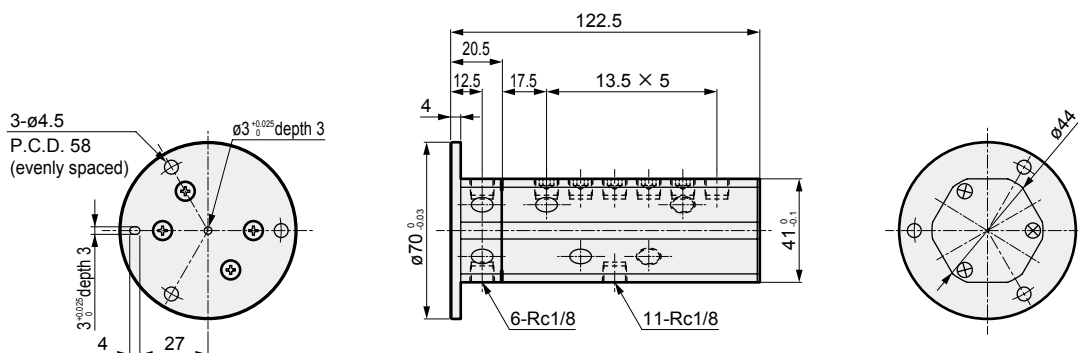
### ● RJF-6A-04



### ● RJF-M5-06



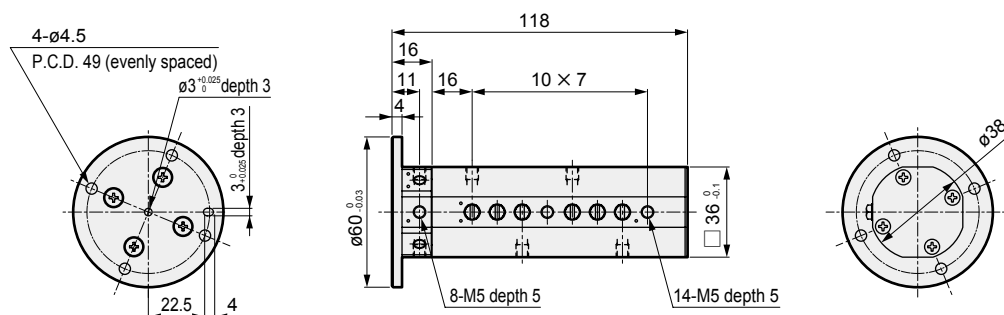
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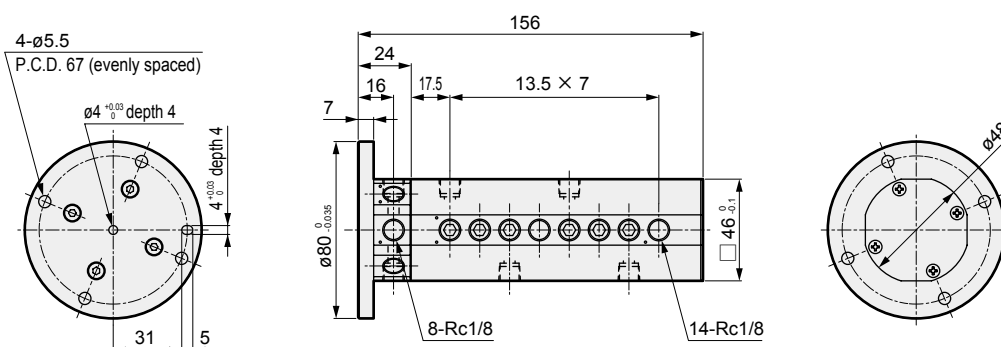
### Dimensions (basic)



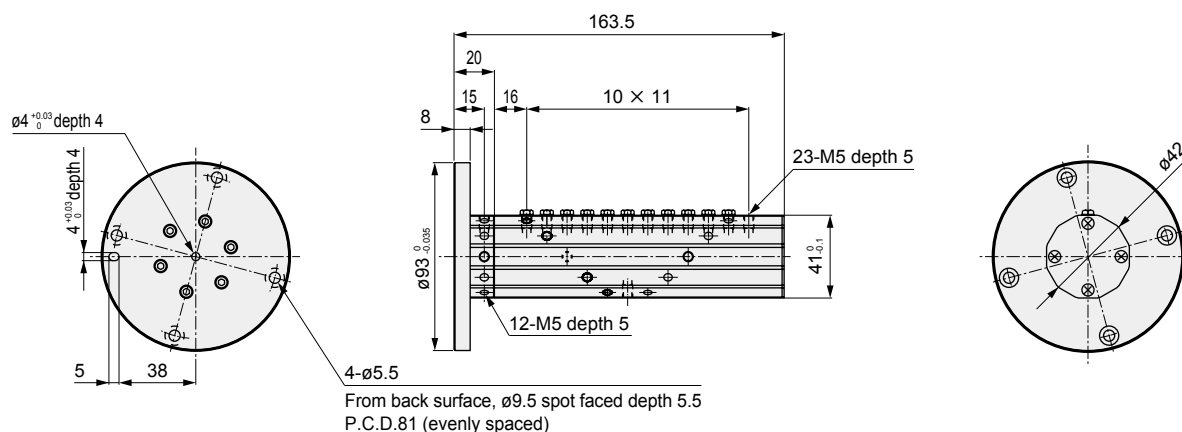
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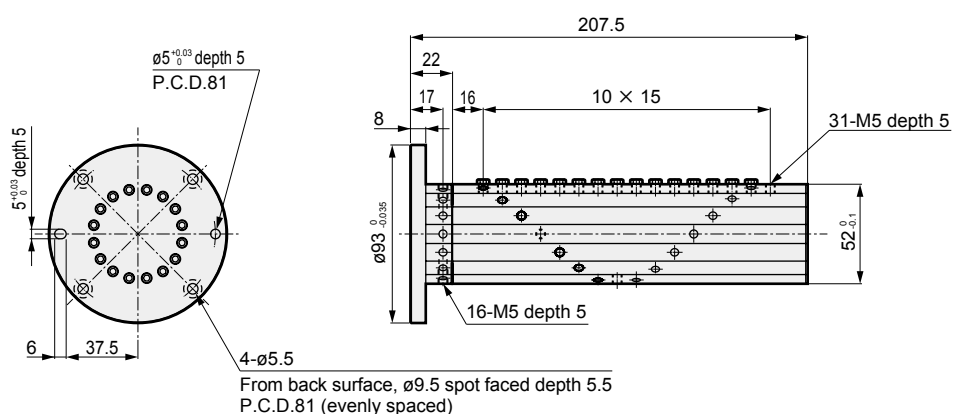
#### ● RJF-6A-08



#### ● RJF-M5-12



#### ● RJF-M5-16



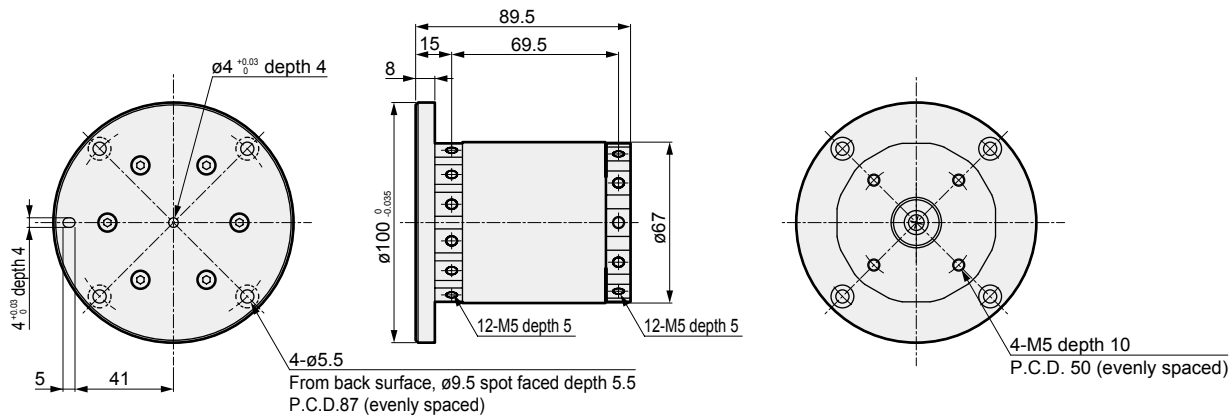
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| Oil-ProhR                  |
| Med Press FR               |
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| Outdrs FRL                 |
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| VacF/R                     |
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| DesicDry                   |
| HiPolymDry                 |
| MainFiltr                  |
| Dischrg etc                |
| Ending                     |

## Dimensions (space saving structure)



### ● RJF-M5-12-S



### ● RJF-M5-16-S

