



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Block valve

FPV Series

● Port size: (Rc or R) 1/4 to 1/2

JIS symbol

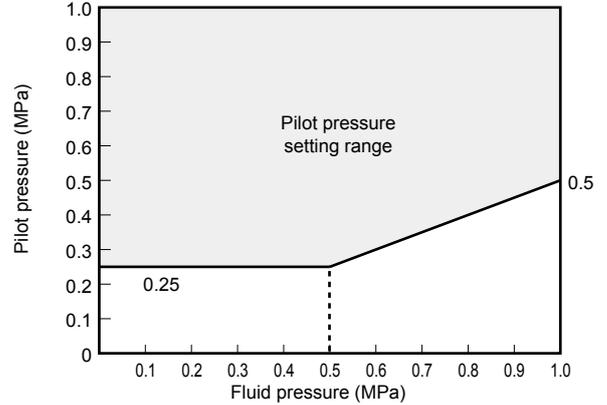


Features

- Compact valve ideal for position locking dropping and for cylinder braking.
- Compact and lightweight
75% smaller and 50% lighter on average compared with our conventional models.
- Variety of bore sizes available
Series variations from M5 to R1/2 bore sizes enable direct cylinder installation.

Pilot pressure

Set pilot air pressure within the specified range.



Specifications

| Descriptions | FPV-M5 | FPV-6A | | | FPV-8A | | | FPV-10A | | | FPV-15A | | |
|--|---------------------------|--------|----|-------|--------|----|-------|---------|-----|-------|---------|-----|-------|
| Port size | M5 | R1/8 | | | R1/4 | | | R3/8 | | | R1/2 | | |
| Main side compatible tube O.D. | ø6 | ø6 | ø8 | Rc1/8 | ø6 | ø8 | Rc1/4 | ø8 | ø10 | Rc3/8 | ø10 | ø12 | Rc1/2 |
| Pilot side compatible tube O.D. | | ø4 | | M5 | ø4 | | M5 | ø4 | | Rc1/8 | ø4 | | Rc1/8 |
| Working fluid | Compressed air | | | | | | | | | | | | |
| Max. working pressure MPa | 1.0 | | | | | | | | | | | | |
| Min. working pressure MPa | 0 | | | | | | | | | | | | |
| Proof pressure MPa | 1.5 | | | | | | | | | | | | |
| Pilot pressure MPa | Refer to the above table. | | | | | | | | | | | | |
| Fluid temperature °C | 5 to 60 | | | | | | | | | | | | |
| Ambient temperature °C | 0 to 60 (no freezing) | | | | | | | | | | | | |
| Weight g | 28 | 26 | 36 | 50 | 51 | 68 | 90 | 93 | 120 | 143 | 145 | 192 | |
| Effective cross-sectional area mm ² | 1.3 | 5 | | | 10 | | | 17 | | | 27 | | |

How to order

FPV - 6A - 06 - FL No.

| A Port size | | A Piping port size | | | | | |
|-------------|------|--------------------|----|----|-----|-----|--|
| M5 | M5 | M5 | 6A | 8A | 10A | 15A | |
| 6A | R1/8 | | | | | | |
| 8A | R1/4 | | | | | | |
| 10A | R3/8 | | | | | | |
| 15A | R1/2 | | | | | | |

| B Compatible tube O.D. | | A Piping port size | | | | | |
|------------------------|-------|--------------------|----|----|-----|-----|--|
| | | M5 | 6A | 8A | 10A | 15A | |
| 06 | ø6 | ● | ● | ● | | | |
| 08 | ø8 | | ● | ● | ● | | |
| 10 | ø10 | | | | ● | ● | |
| 12 | ø12 | | | | | ● | |
| 6A | Rc1/8 | | ● | | | | |
| 8A | Rc1/4 | | | ● | | | |
| 10A | Rc3/8 | | | | ● | | |
| 15A | Rc1/2 | | | | | ● | |

Not available

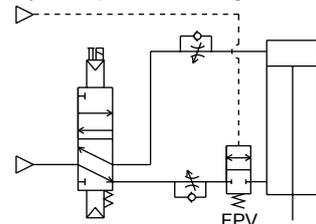
Note: Made to order. Contact CKD for details.

Compatibility table by variation

| | FPV | |
|-----------|-------------------------|--------------------|
| Port size | M5, R1/8, 1/4, 3/8, 1/2 | ● : Standard |
| P4 | ▲ | ○ : Made to order |
| | | ▲ : Contact CKD |
| | | ■ : Not applicable |

Applications

- Used for cylinder position locking circuit



- Used for cylinder braking circuit

