

HVSF Pneumatic Inline Hand Valve Push-to-Connect Fitting

Inline manual airflow shut-off and pressure-release valve for pneumatic tubing systems



Product Overview

The HOMIPNEU HVSF pneumatic hand valve is a straight inline manual control valve for opening, closing and isolating compressed-air flow. Its push-to-connect tube port and male threaded connection support fast installation in linear pneumatic circuits without changing airflow direction. The rotary handle provides clear ON/OFF control, while 3-way configurations can discharge residual pressure when closed for safer maintenance.

Key Features

- Straight inline valve structure maintains the original airflow direction.
- Manual rotary handle provides clear ON/OFF airflow control.
- Available in 2/2-way and 3/2-way configurations.
- Three-way versions can release residual downstream pressure when switched off.
- Push-to-connect tube interface supports quick installation without special tools.
- Nickel-plated brass connection and internal seals support reliable service life.

Applications

- Pneumatic automation systems and industrial machinery.
- Air-supply isolation points for maintenance and safety procedures.
- Testing circuits requiring controlled pressure release.
- Straight pneumatic pipelines in compact equipment and control panels.

Product Function

In the ON position, compressed air flows through the valve. In the OFF position, the air path is blocked. For 3-way versions, residual downstream pressure is released to reduce the risk of unexpected actuator movement during servicing.

Technical Specifications

Parameter	Specification
Product Type	Pneumatic inline hand valve
Structure	Inline straight valve
Connection	Push-to-connect tube port to male thread
Control Type	Manual rotary handle
Valve Type	2/2-way or 3/2-way
Material	Nickel-plated brass connection with engineering-plastic body
Seal Type	O-ring and internal sealing structure
Operating Fluid	Air
Working Pressure	0-1.0 MPa
Negative Pressure	-100 kPa
Temperature Range	0-60 deg C
Applicable Tubing	PU tube and nylon tube

Product Structure and Size Range

- Models: HVSF4, HVSF6, HVSF8, HVSF10 and HVSF12.
- Tube outside diameters: 4 mm, 6 mm, 8 mm, 10 mm and 12 mm.
- Thread options: M5, R1/8, R1/4, R3/8 and R1/2.
- Straight body design with push-to-connect tube inlet and male threaded outlet.

Installation and Operating Guidance

- Cut the tube squarely and remove burrs or surface damage before insertion.
- Insert the tube fully until it reaches the internal stop.
- Apply suitable thread sealing practice without blocking the airflow passage.
- Tighten the metal threaded section using the hex surface; avoid twisting the valve body.
- Switch the handle only after confirming that the connected equipment is safe to operate.
- Pressurize the system gradually and check all connections for leakage.

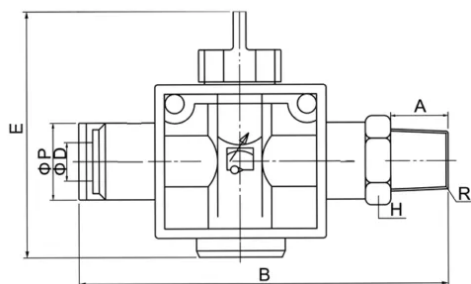
Maintenance and Safety Notes

- Depressurize the pneumatic circuit before installation, adjustment or tube removal.
- Keep tube sealing surfaces and the release ring clean and free from particles.
- Do not exceed the specified pressure or temperature range.
- Replace the valve if the body, handle, thread or sealing area is damaged.

Ordering Information

Specify the HVSF model, tube outside diameter, male thread size, valve configuration and required quantity. OEM and ODM services are available for size, thread option, body color, packaging and branding, subject to production confirmation.

Dimension Drawing



Model Selection and Dimensions

Model	D	B	E	A	H	R	P
HVSF4-M5	4	49	40	3.5	10	M5	11
HVSF4-01	4	52.5	40	7	10	R1/8	11
HVSF4-02	4	53.5	40	8	14	R1/4	11
HVSF6-M5	6	50	40	3.5	12	M5	13
HVSF6-01	6	53.5	40	7	12	R1/8	13
HVSF6-02	6	54.5	40	8	14	R1/4	13
HVSF6-03	6	55.5	40	9	17	R3/8	13
HVSF6-04	6	57	40	10	21	R1/2	13
HVSF8-01	8	56.5	42.5	7	14	R1/8	15
HVSF8-02	8	57.5	42.5	8	14	R1/4	15
HVSF8-03	8	58.5	42.5	9	17	R3/8	15
HVSF8-04	8	60	42.5	10	21	R1/2	15
HVSF10-01	10	66.5	42.5	7	17	R1/8	18.5
HVSF10-02	10	67.5	42.5	8	17	R1/4	18.5
HVSF10-03	10	68.5	42.5	9	17	R3/8	18.5
HVSF10-04	10	70	42.5	10	21	R1/2	18.5
HVSF12-01	12	69.5	44.5	7	19	R1/8	21
HVSF12-02	12	70.5	44.5	8	19	R1/4	21
HVSF12-03	12	71.5	44.5	9	19	R3/8	21
HVSF12-04	12	73	44.5	10	21	R1/2	21

All dimensions are in millimetres. D and P indicate tube-related outside diameters.

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