

Q22HD Series 2/2 Way Pneumatic Control Valve

Air-operated 2/2 way piston valve for industrial pipeline on-off control



Product Overview

The HOMIPNEU Q22HD Series 2/2 Way Pneumatic Control Valve is designed for air-operated on-off control in industrial pipeline systems. The series includes Q22HD-15, Q22HD-20, Q22HD-25, Q22HD-35, Q22HD-40 and Q22HD-50 models with G1/2 to G2 main ports. It can be selected for air, water, oil, gas and compatible low-viscosity fluids after confirming the valve state, pilot pressure, thread, seal, pressure and temperature.

Item	Specification	Item	Specification
Structure	2/2 way piston valve	Main Ports	G1/2 to G2
Operation	Pneumatic pilot control	Pilot Port	G1/8
Body	Brass	Media	Air, water, oil, gas
Pressure	0.2-0.8 MPa typical	Temperature	-5 C to 60 C typical

Key Features

2/2 Way On-Off Control: Two main ports and two operating positions provide a simple open-or-closed flow path for pipeline isolation and switching.

Air Operated Piston Structure: The main valve is actuated by a compressed-air pilot signal, separating the control circuit from the primary medium passage.

Wide Port Range: Models cover Q22HD-15 to Q22HD-50 with main ports from G1/2 to G2 for common industrial pipelines.

Typical Applications

- Compressed-air supply line switching and branch circuit isolation.
- Water supply, drainage, cooling line and washing equipment control.
- Compatible oil and low-viscosity fluid on-off control after material and seal confirmation.
- Industrial automation machinery, process equipment, packaging lines and utility pipelines.

Technical Specifications

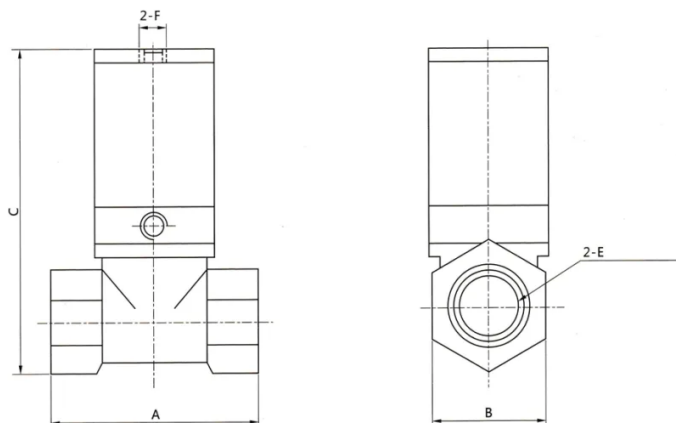
Parameter	Description
Product Name	Q22HD Series 2/2 Way Pneumatic Control Valve
Series	Q22HD Series
Valve Function	2 ports, 2 positions
Operation Type	Pneumatically operated piston valve
Typical Function	On-off pipeline control
Body Material	Brass
Main Port Range	G1/2, G3/4, G1, G1-1/4, G1-1/2, G2
Pilot Port	G1/8
Working Medium	Air, water, oil, liquefied gas and compatible low-viscosity fluids
Typical Working Pressure	0.2-0.8 MPa; confirm the exact version before ordering
Proof Pressure	Up to 1.0 MPa for commonly listed versions
Typical Medium Temperature	-5 C to 60 C; higher-temperature seal options may be available
Seal Options	NBR and optional temperature-resistant materials, depending on version
Control Configuration	Normally closed or optional configuration, depending on model
Selection Checks	Confirm model, valve state, port size, thread standard, pilot pressure, medium, pressure, temperature, seal and flow requirement

Model Selection

Model	Nominal Diameter	Main Port	Pilot Port	Typical Kv Value
Q22HD-15	15 mm	G1/2	G1/8	4
Q22HD-20	20 mm	G3/4	G1/8	5
Q22HD-25	25 mm	G1	G1/8	10
Q22HD-35	35 mm	G1-1/4	G1/8	25
Q22HD-40	40 mm	G1-1/2	G1/8	25-40, depending on version
Q22HD-50	50 mm	G2	G1/8	40

Note: Typical pressure, seal and flow data may vary by supplied version. Confirm the exact specification before ordering or use in production.

Overall Dimension



Dimension Table

Model	A	B	C	E	F
Q22HD-15	50	26	98	1/2	1/8
Q22HD-20	56	33	106	3/4	1/8
Q22HD-25	69	39	124	1	1/8
Q22HD-35	82	48	139	1-1/4	1/8
Q22HD-40	85	55	163	1-1/2	1/8
Q22HD-50	117	67	177	2	1/8

All dimensions are in millimetres unless the port thread is stated. E indicates the main port thread and F indicates the pilot port thread in the dimension drawing.

Selection Guidance

Select the model according to main port size, required flow capacity, medium compatibility and pilot-control conditions. For gas or special fluid applications, confirm leakage requirements, seal material and applicable safety standards before installation.

Installation and Operating Guidance

- Confirm the Q22HD model, main port size, pilot port, thread standard and required normally closed or optional valve state before ordering.
- Verify that the medium is compatible with the brass body and selected seal material before use with water, oil, gas or process fluids.
- Keep the working pressure, pilot pressure, temperature and flow requirements within the confirmed rating of the supplied version.
- Install the valve in the correct flow direction when a direction mark is present, and keep pipe sealing material away from the fluid passage.
- Use clean, dry compressed air for pilot actuation and protect the pilot port from dust, condensate and contamination.
- After installation, test pilot response, leakage, flow capacity and valve return behavior before connecting the equipment to normal production.

Ordering Information

For ordering, specify the Q22HD model, nominal diameter, main port thread, pilot port, valve state, medium, working pressure, temperature, seal requirement, packaging details and order quantity. OEM and ODM options can be discussed for distributor and equipment-manufacturer projects.

This manual is a general product reference. Final configuration, material, seal, pressure rating, thread standard and production details should be confirmed with HOMIPNEU before ordering.

Contact Information

Wenzhou Hongmi Pneumatic Co., Ltd.

Address: Room 501, Xingnan Village, Hongqiao Town, Yueqing City, Zhejiang, China

Email: vivilian@homipneu.com

Phone / WhatsApp: +86 136 0580 6063

Website: <https://homipneu.com>