

**KEYVALVE**

**KEYVALVE Co., Ltd.**

**Pneumatic  
Control Valve**



# Pneumatic Control Valve with intergraded design

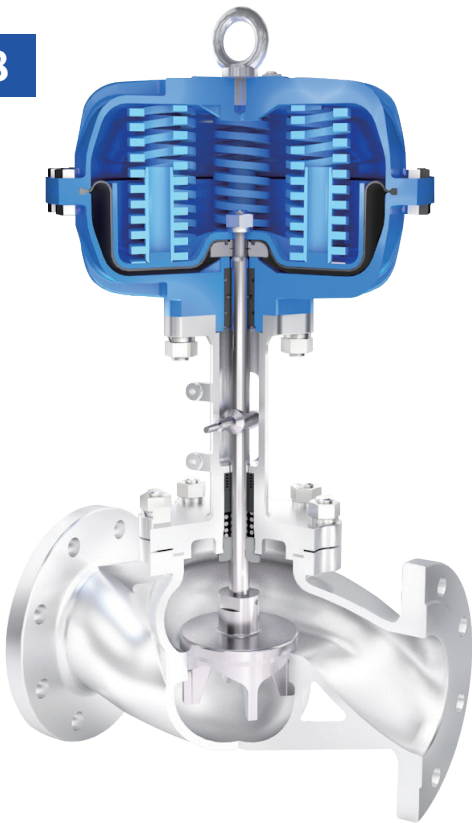
## Product Description

KT-18 series is pneumatic control valve, the design is composited by a set of pneumatic actuator and globe valve. The valve is opened or closed by an actuator with compressed air. The media's pressure, temperature or flow capacity are major measurement results by the valve acting the plug opening or closing. The design is reliable with high precision tolerance in between components. It is excellent quality for long service life.

## Application

The product is used for the media of water, steam, hot oil and etc. It is applied on various industries as oil & chemical, fibric plastic, dying process, food & beverages, pulp & paper, medicine etc.

KT-18



## Design and Acceptance Standard

| Item         | Design Standard | Flange Standard      | Structure Dimension | Hydrostatic Test      |
|--------------|-----------------|----------------------|---------------------|-----------------------|
| According to | ASME B16.34     | GB/T 9113<br>DIN2533 | GB/T 12221          | GB/T 13927<br>API 598 |

## Main Feature

### 01 Structure

The structure is an intergraded design, the actuator and valve are connected to a signal piece. Reduces tolerance and improves installation positions and seals performance.

### 02 Body

The body is modified with high flowrate design, large passage provides high volume and reduce flow resistance.

### 03 Plug

The parabolic plug and v-port plug are available, these are able to fulfill different working conditions and flow control requirements.

### 04 Metal to Metal Seat

The seat surface is welded by harden alloy. The seat surface resists corrosion or cavitation damage. The leakage performance is reached ANSI FCI 70-2 standard class VI. It is reliable for long service life.

### 05 Stem

The material is SS431 or SS316 with nitriding and grinding treatment, great mechanical properties with high strength, harden surface for long service life.

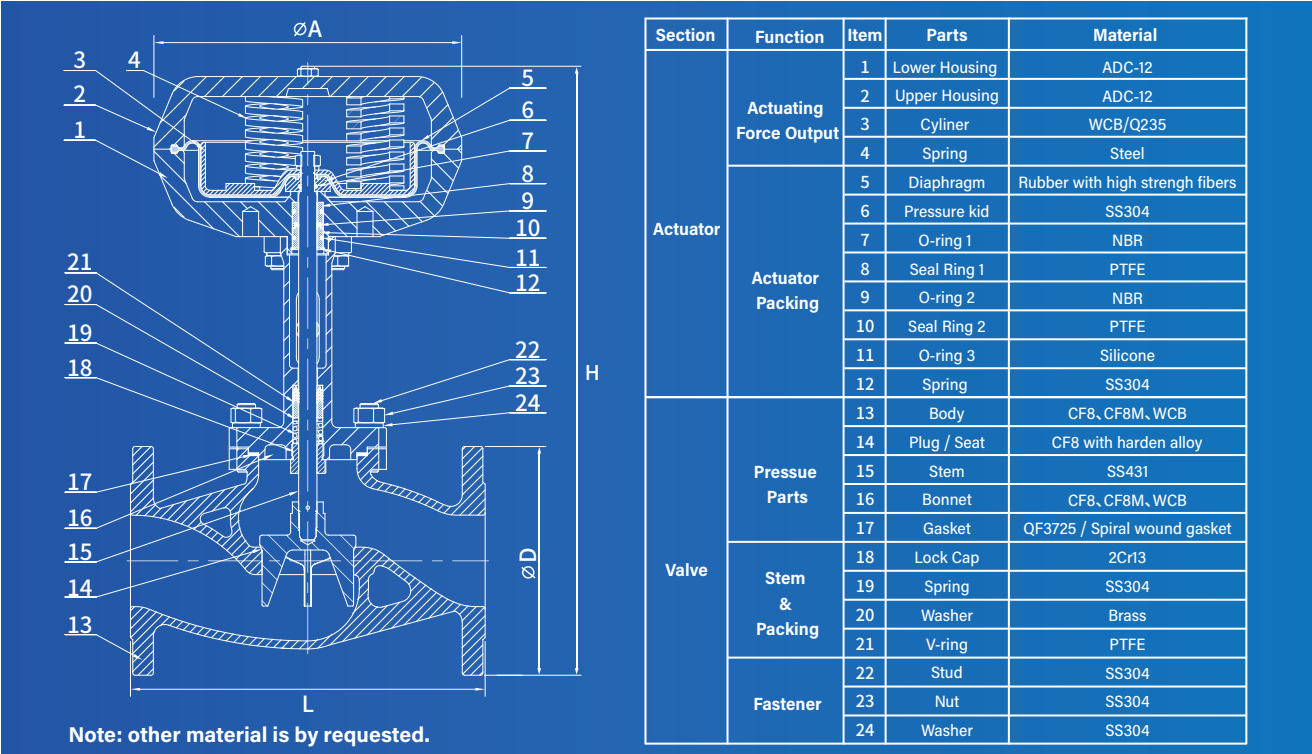
### 06 Packing

The packing is PTFE v-rings with spring loading. Excellent performance with long service life.

## Product Range

|                  |              |
|------------------|--------------|
| Series           | KT - 18      |
| Nominal Size     | DN15 ~ DN150 |
| Nominal Pressure | PN10 ~ PN16  |
| Body Material    | CF8、CF8M、WCB |

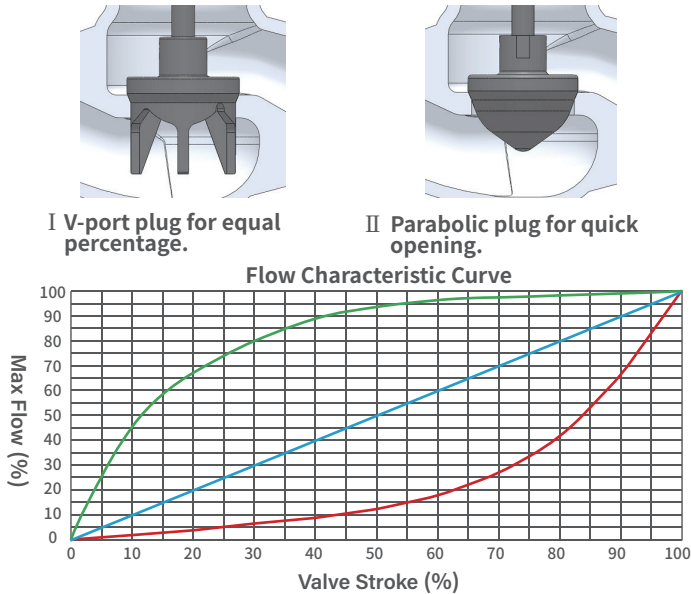
## ■ Structure and Technical Data



## ■ Dimension and Technical Data

| Normal Size           |                | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 | DN65 | DN80 | DN100 | DN125 | DN150 |
|-----------------------|----------------|------|------|------|------|------|------|------|------|-------|-------|-------|
| Dimension             | L (mm)         | 130  | 150  | 160  | 180  | 200  | 230  | 290  | 310  | 350   | 400   | 480   |
|                       | H (mm)         | 368  | 382  | 398  | 412  | 428  | 441  | 509  | 533  | 657   | 885   | 1065  |
|                       | A (mm)         | 215  | 215  | 215  | 215  | 215  | 215  | 269  | 269  | 315   | 315   | 425   |
| Stroke                | (mm)           | 20   | 20   | 20   | 20   | 20   | 20   | 25   | 25   | 30    | 35    | 40    |
| Weight                | (Kg)           | 10.5 | 12.5 | 14.5 | 16   | 18   | 22   | 27   | 35   | 48    | 65    | 89    |
| Flow Rate<br>Cv value | V-port plug    | 2.5  | 5    | 7.5  | 16.5 | 30   | 50   | 90   | 110  | 168   | 231   | 336   |
|                       | Parabolic plug | 2.8  | 5.5  | 7.8  | 17   | 31   | 53   | 95   | 116  | 176   | 238   | 348   |

## ■ Plug Design and Flow Characteristic

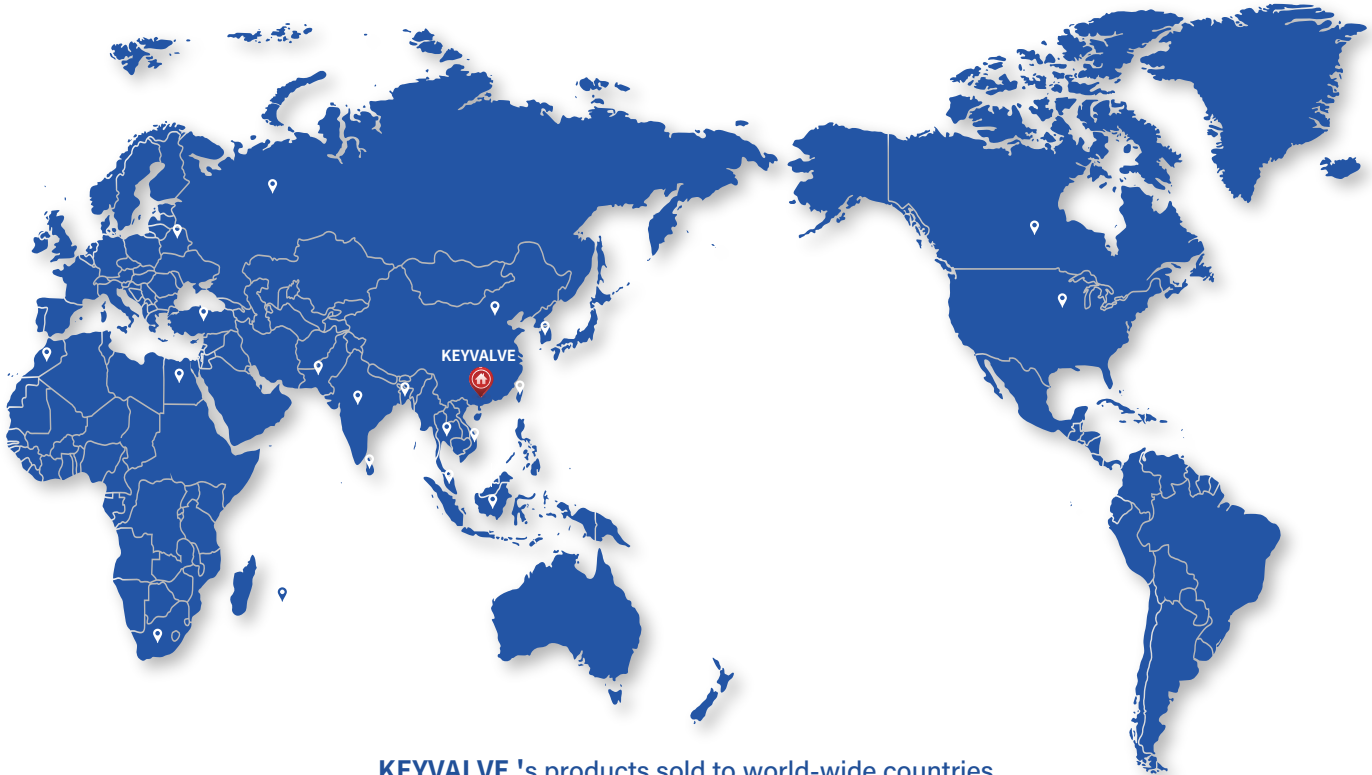




KEYVALVE is a company specializing in research and development for steam and fluid control technology. Adhering to our advance knowledge and rich experiences, we provide technical advice and solutions for stem, liquid media and fluid control applications.

KEYVALVE technical team has more than 30 years of experience in design and manufacturing of steam and fluid control products. Our products are TÜV approved for PED 2014/68/EU Module H and ISO 9001. We strictly adhere to quality control in every production environment, ensuring product quality and performance reliability. Our vision is "Customers Value Added" and the core value is "Quality First". "Excellent Service", "Customer-Oriented Approach" and "Continuous Development".

KEYVALVE's products have been sold to 20 countries. Customers are world-renowned companies in various industries including chemical, oil & gas, refining, power, food & pharmaceutical, paper, battery, textile and others.



KEYVALVE 's products sold to world-wide countries

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