

V5328A

Flanged Linear Valve PN16 HIGH CLOSE-OFF PRESSURE RATING

SPECIFICATION DATA



General

These single seated valves are used for modulating control of hot / chilled water or steam in heating, ventilating and air conditioning systems.

The valves can be operated by linear actuators ML6420/ML6425, ML7420/ML7425 or ML6421A/ML7421A.

Features

- Cast iron body with flanged end connections
- Low seat leakage rate
- High Close-off Pressure Rating (1000kPa)
- Metal to metal seating for long life span
- Self adjusting packing
- Accurate positioning to ensure state of the art temperature control
- Easy mounting of directly coupled with electric actuators
- Approved according to DIN 32730

Specifications

| | |
|--|--|
| Action | Stem down to close |
| Nominal pressure rating | PN16 |
| Plug | Pressure balanced plug |
| Flow characteristic | Equal percentage |
| Rangeability | 50:1 |
| Leakage rate | ≤0.03 % of kvs |
| Stroke | 20 mm |
| Valve body | |
| End connections | Flanged per ISO 7005-2 |
| Material | Cast iron (GG25) |
| Dimensions | See Fig. 1 |
| Trim | |
| Seat | Stainless steel, replaceable |
| Stem | Stainless steel |
| Plug | Stainless steel, skirt guided |
| Packing rings | Spring loaded PTFE cone |
| Medium temperature and pressure | 2...120 °C ; max. 1600 kPa 120...150 °C ; max. 1400 kPa 150...170 °C ; max. 1370 kPa |
| Maximum temperature differential in alternating hot/cold water use | 60 K |

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Sizes and flow capacities

| Order Number | Valve Size | kvs |
|--------------|------------------|-------|
| V5328A1161 | DN50 (for Water) | 40.0 |
| V5328A1179 | DN65 (for Water) | 63.0 |
| V5328A1187 | DN80 (for Water) | 100.0 |
| V5328A2003 | DN50 (for Steam) | 40.0 |
| V5328A2011 | DN65 (for Steam) | 63.0 |
| V5328A2029 | DN80 (for Steam) | 100.0 |

Actuators

Electric actuators

| Stem Force/Actuator | | |
|---------------------|------------------------|------------------|
| 600 N | 600 N Spring Return | 1800 N |
| ML6420A ML7420A | ML6425A,B ML7425A,B | M6421A M7421A |

Installation

- Water should meet VDI 2035 requirements.
- Do not install valve with stem below the horizontal.
- Fluid flow must correspond with the arrow direction on the valve body.
- The installation of a strainer is strongly recommended.

Close-off Pressure Ratings in kPa

Electric actuators

| Actuator | | Valve Size | | |
|--|--------|------------|------|------|
| Model | Force | DN50 | DN65 | DN80 |
| ML6420A, ML6425A,B ML7420A, ML7425A,B | 600 N | 1000 | 1000 | 1000 |
| ML6421A, ML7421A | 1800 N | 3000 | 3000 | 3000 |

Dimensions (mm)

Valve

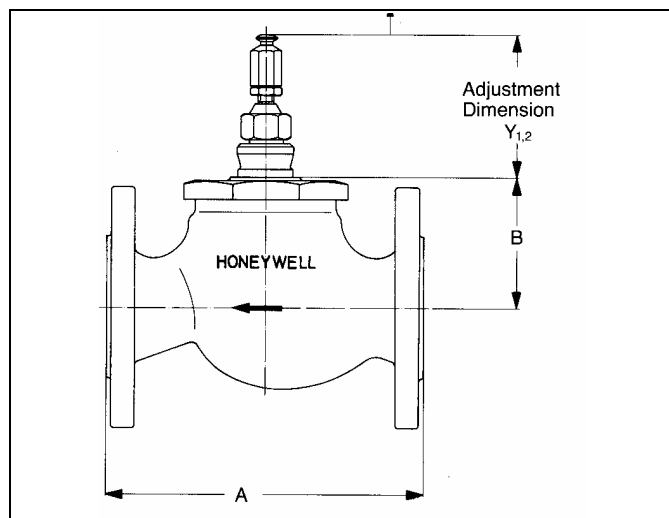


Fig. 1 V5328A

| Valve Size | A | B | Y ₁ |
|------------|-----|-----|----------------|
| DN50 | 230 | 93 | Valve closed |
| DN65 | 290 | 112 | |
| DN80 | 310 | 114 | |

Electric actuators

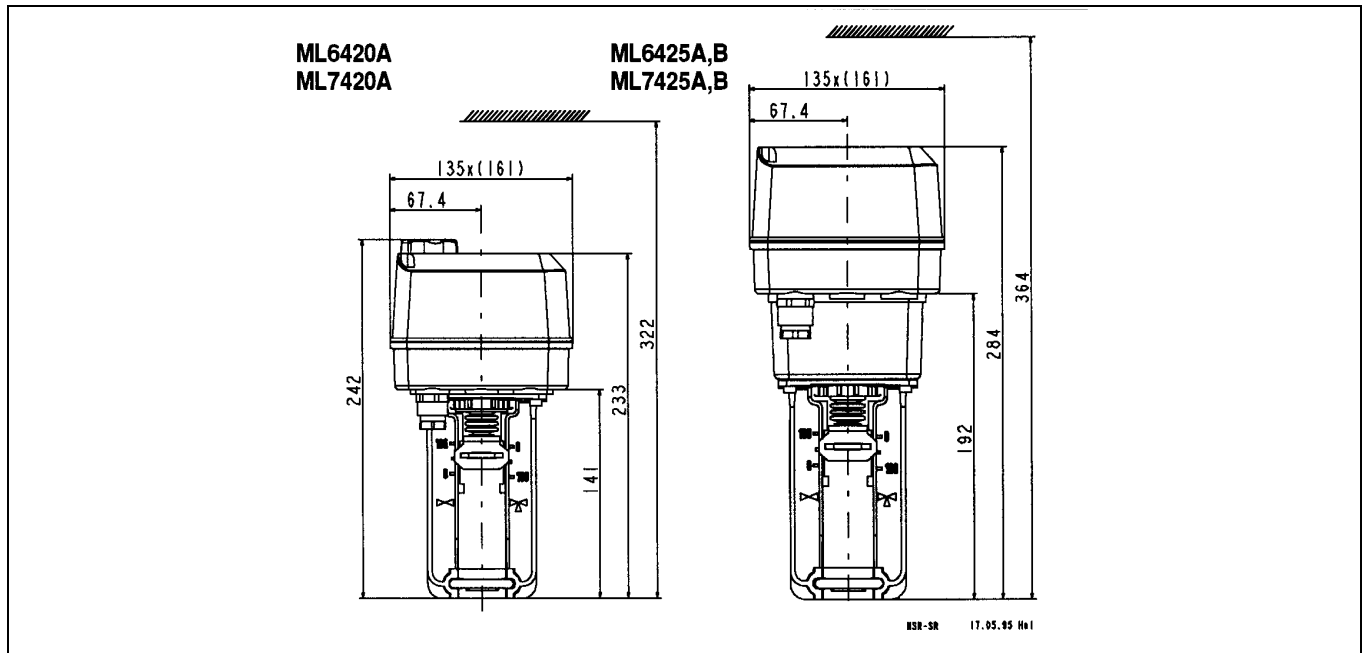


Fig. 3 ML6420A/ML6425A,B and ML7420A/ML7425A,B

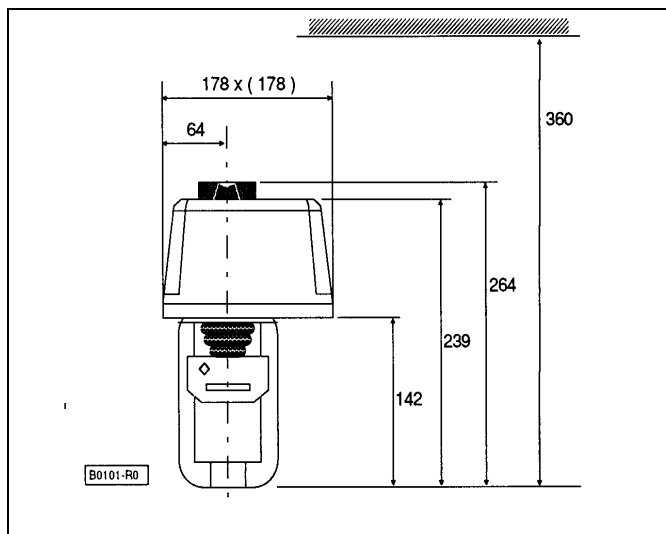
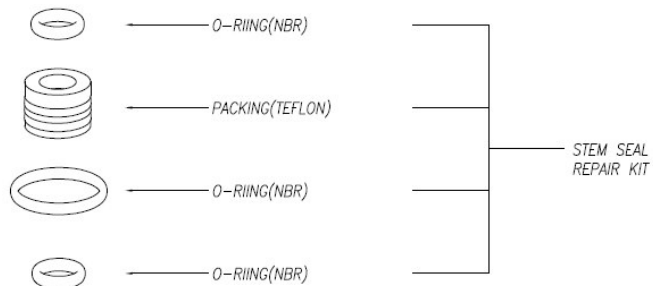


Fig. 4 ML6421A/ML7421A

NOTE: V5328A valves in combination with the following actuators are approved according to DIN 32730:

Part No.: 88609025 (for Water, DN50...80)
88609026 (for Steam, DN50...80)

a. for water application



b. for steam application

