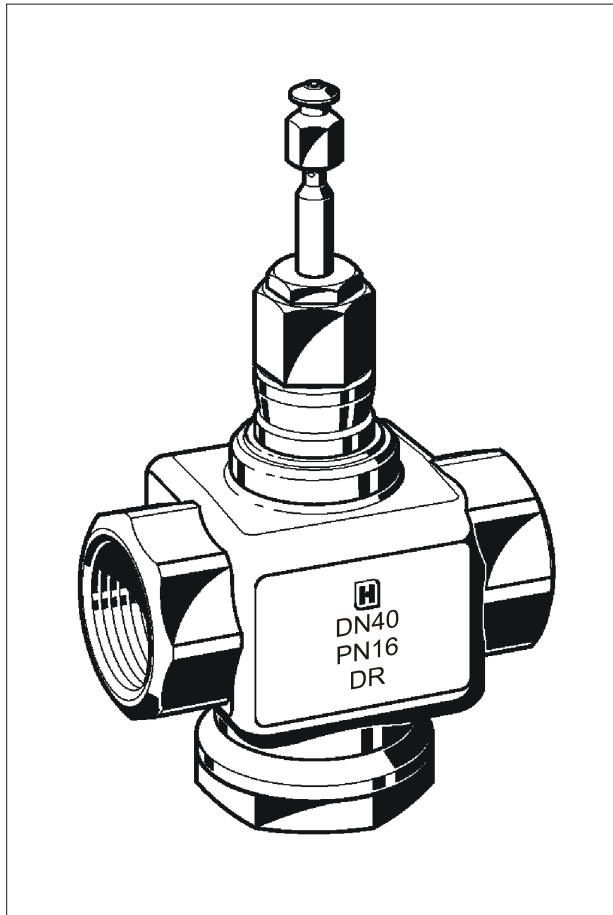


## V5011S

### INTERNAL THREADED END-CONNECTION LINEAR VALVE PN16

#### PRODUCT DATA



#### FEATURES

- Brass body with internal threaded end connections
- Low seat leakage rate
- Self-adjusting packing
- Accurate positioning to ensure state-of-the-art temperature control
- Directly-coupled electric and pneumatic actuators for easy mounting

#### SPECIFICATIONS

|                                                                  |                                                          |
|------------------------------------------------------------------|----------------------------------------------------------|
| Action:                                                          | Stem down to close                                       |
| Nominal pressure rating:                                         | PN16                                                     |
| Flow characteristic:                                             | Equal percentage                                         |
| Rangeability:                                                    | 50:1                                                     |
| Leakage rate:                                                    | ≤0.05% of $k_{vs}$                                       |
| Stroke:                                                          | 20 mm                                                    |
| Valve body:                                                      |                                                          |
| Pipe connections:                                                | Internal threading as per ISO228                         |
| Material:                                                        | Brass                                                    |
| Dimensions:                                                      | See Fig. 1 on page 3                                     |
| Trim:                                                            |                                                          |
| Seat:                                                            | Stainless steel                                          |
| Plug:                                                            | Stainless steel                                          |
| Stem:                                                            | Stainless steel                                          |
| Packing:                                                         | Spring-loaded carbon fiber reinforced PTFE V-rings       |
| Medium temperature and pressure:                                 |                                                          |
| Water and steam                                                  | 2 to 120 °C max. 1600 kPa<br>120 to 170 °C max. 1490 kPa |
| Max. temperature differential in alternating hot/cold water use: | 60 K                                                     |

#### APPLICATION

Single-seated control or shut-off valve for:

- hot water;
- chilled water;
- saturated steam;
- superheated steam;

in heating, ventilation, air conditioning systems, and open circuits.

Operated by

- electric linear actuators (e.g., ML6420/25, ML7420/25, ML6421, and ML7421) and
- pneumatic actuators (e.g., MP953).

## SIZES AND FLOW CAPACITIES

Table 1. Size and flow capacity (in m<sup>3</sup>/h)

| Order Number | Valve size | kvs m <sup>3</sup> /h |
|--------------|------------|-----------------------|
| V5011S1005   | DN15       | 0.63                  |
| V5011S1013   | DN15       | 1                     |
| V5011S1021   | DN15       | 1.6                   |
| V5011S1039   | DN15       | 2.5                   |
| V5011S1047   | DN15       | 4                     |
| V5011S1054   | DN20       | 6.3                   |
| V5011S1062   | DN25       | 10                    |
| V5011S1070   | DN32       | 16                    |
| V5011S1088   | DN40       | 25                    |
| V5011S1096   | DN50       | 40                    |

## INSTALLATION

Water should meet VDI2035 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.

## SPARE PARTS

Repair packing kit for red-brass models (old) – RG5

DN15...32: Order number R43176754001

DN40...50: Order number R43176754002

Repair packing kit for yellow-brass models (new) – DR

DN15...50: Order number R43176754002

## CLOSE-OFF PRESSURE RATINGS

### Electric Actuators

Table 2. Close-off pressure ratings (in kPa) of electric actuators

| actuator                           |        | valve size |      |      |      |      |      |
|------------------------------------|--------|------------|------|------|------|------|------|
| type                               | force  | DN15       | DN20 | DN25 | DN32 | DN40 | DN50 |
| ML6420 / ML6425<br>ML7420 / ML7425 | 600 N  | 1600       | 1600 | 1000 | 700  | 460  | 260  |
| ML6421 / ML7421                    | 1800 N | -          | -    | 1600 | 1600 | 1500 | 850  |

### Pneumatic Actuators MP953

Table 3. Close-off pressure ratings (in kPa) of pneumatic actuators MP953

| actuator                 |              |              | valve size          |              |      |      |      |      |      |
|--------------------------|--------------|--------------|---------------------|--------------|------|------|------|------|------|
| type                     | spring range | air pressure | DN15<br>kvs0.63-2.5 | DN15<br>kvs4 | DN20 | DN25 | DN32 | DN40 | DN50 |
| MP953C5001               | 14...48 kPa  | 115 kPa      | 1600                | 1600         | 1400 | 760  | 520  | 280  | 140  |
| MP953C5027<br>MP953A5005 | 27...76 kPa  |              | 1600                | 1150         | 670  | 350  | 230  | 100  | 40   |
| MP953C5019               | 55...83 kPa  |              | 1600                | 860          | 490  | 240  | 150  | 50   | 10   |
| MP953C5068               | 14...48 kPa  |              | 1600                | 1600         | 1600 | 1600 | 1600 | 1130 | 630  |
| MP953C5084<br>MP953A5039 | 27...76 kPa  |              | 1600                | 1600         | 1600 | 1500 | 1050 | 600  | 320  |
| MP953C5076               | 55...83 kPa  |              | 1600                | 1600         | 1600 | 1190 | 830  | 460  | 250  |
| MP953D5025               | 27...76 kPa  | 0 kPa        | 1600                | 1600         | 1050 | 570  | 390  | 200  | 90   |
| MP953D5009<br>MP953B5003 | 55...90 kPa  |              | 1600                | 1600         | 1600 | 1400 | 980  | 550  | 300  |

## DIMENSIONS

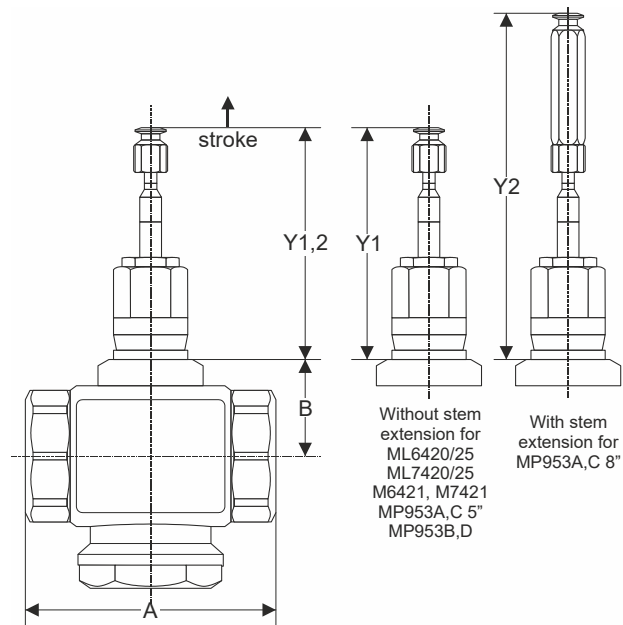


Fig. 1. Dimensions (2-port)

Table 4. Dimensions (in mm)

| valve size | A   | B    | Y <sub>1</sub> | Y <sub>2</sub> |
|------------|-----|------|----------------|----------------|
|            |     |      | stem down      |                |
| DN15       | 83  | 39.5 | 89             | 133            |
| DN20       | 83  | 39.5 |                |                |
| DN25       | 103 | 39.5 |                |                |
| DN32       | 106 | 39.5 |                |                |
| DN40       | 120 | 46.5 |                |                |
| DN50       | 134 | 46.5 |                |                |

For actuator dimensions, please refer to:

|                           |               |
|---------------------------|---------------|
| ML6420A3072.....          | EN0B-0411GE51 |
| ML6420A / ML6425A,B ..... | EN0B-0351GE51 |
| ML7420A / ML7425A,B ..... | EN0B-0261GE51 |
| ML6421A,B .....           | EN0B-0414GE51 |
| ML7421A,B .....           | EN0B-0416GE51 |
| MP953A,B,C,D.....         | EN0B-0552GE51 |

**Honeywell**

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