## resideo

## Centra Linear Valve DE/DI

## 2-Way Linear Valves - External/Internal Threaded

## APPLICATION

Single seated control or shut-off 2-way linear valve for:

- hot water
- chilled water
- saturated steam (for valves with stainless steel plug)
- superheated steam (for valves with stainless steel plug) in heating, ventilation, air conditioning systems and open circuits.

Operated by

- electric linear actuators series ML64... and ML74..


## SPECIAL FEATURES

- Brass body with external threaded end connections (type DE)
- Brass body with internal threaded end connections (type DI)
- Low seat leakage rate

- Self-adjusting packing
- Accurate positioning to ensure state-of-the-art temperature control
- Constant total flow throughout full plug travel


## TECHNICAL DATA

| Media | Water or glycol-water mixture, <br> according to VDI 2035 |
| :--- | :--- |
| Medium: | max. 1600 kPa |
| Operating temperatures and operating pressure |  |

## CONSTRUCTION



## INSTALLATION GUIDELINES

## Setup 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


## TECHNICAL CHARACTERISTICS

## Close off pressure ratings in $\mathbf{k P a}$

| Model | Valve Size |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ML6 | Force | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 |
| ML6420, ML6425 | 600 N | 1600 kPa | 1000 kPa | 1000 kPa | 700 kPa | 460 kPa | 260 kPa |
| ML7420, ML7425 |  | - | - | 1600 kPa | 1600 kPa | 1300 kPa | 850 kPa |
| ML6421, ML7421 | 1800 N | - |  |  |  |  |  |

## DIMENSIONS

## Overview



| DN | D | A | B | C | Stem up | Stroke |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Y | e |
| DE |  |  |  |  |  |  |
| 15 | G 11/8" | 80 | 40 | 55 | 89 | 20 |
| 20 | G 11/4" | 90 | 40 | 55 |  |  |
| 25 | G 11/2" | 110 | 40 | 55 |  |  |
| 32 | G 2" | 120 | 40 | 55 |  |  |
| 40 | G $2^{1 / 4}{ }^{\prime \prime}$ | 130 | 40 | 60 |  |  |
| 50 | G $2^{3 / 4}{ }^{\prime \prime}$ | 150 | 40 | 65 |  |  |
| DI |  |  |  |  |  |  |
| 15 | Rp ${ }^{1 / 2 "}$ | 83 | 40 | 55 | 89 | 20 |
| 20 | Rp 3/4" | 83 | 40 | 55 |  |  |
| 25 | Rp 1" | 103 | 40 | 55 |  |  |
| 32 | Rp 11/4" | 106 | 40 | 55 |  |  |
| 40 | Rp 11/2" | 120 | 40 | 66.5 |  |  |
| 50 | Rp 2 " | 134 | 40 | 66.5 |  |  |

Note: All dimensions in mm unless stated otherwise.

## ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice.
When ordering, please always state the type, the ordering or the part number.

## Naming key linear valves

| D | I | 15 | B | 0.63 | SS |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2-way valve | Type of thread | DN (mm) | $\begin{aligned} & \text { PN } \\ & \text { (bar) } \end{aligned}$ | Kvs-value | Special |
| D = 2-way valve | $\begin{aligned} \mathrm{E} & =\text { External } \\ \mathrm{I} & =\text { Internal } \end{aligned}$ | $\begin{aligned} & 15 \\ & 20 \\ & 25 \\ & 32 \\ & 40 \\ & 50 \end{aligned}$ | $B=16$ | $\begin{gathered} 0.63 \\ 1 \\ 1.6 \\ 2.5 \\ 4 \\ 6.3 \\ 10 \\ 16 \\ 25 \\ 40 \end{gathered}$ | SS = Stainless plug |

## Options

## Valve with external threads (DE)

| DN | $\mathrm{k}_{\mathrm{vs}}$-value | Connection | Nominal pressure | Description | OS.-No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | 0.63 |  |  | 2-way valve, ext. threat, DN15, PN16, kvs 0.63 | DE15B0.63 |
| 15 | 1 |  |  | 2-way valve, ext. threat, DN15, PN16, kvs 1.0 | DE15B1.0 |
| 15 | 1.6 |  |  | 2-way valve, ext. threat, DN15, PN16, kvs 1.6 | DE15B1.6 |
| 15 | 2.5 |  |  | 2-way valve, ext. threat, DN15, PN16, kvs 2.5 | DE15B2.5 |
| 15 | 4.0 | External |  | 2-way valve, ext. threat, DN15, PN16, kvs 4.0 | DE15B4.0 |
| 20 | 6.3 | thread | PN16 | 2-way valve, ext. threat, DN20, PN16, kvs 6.3 | DE20B6.3 |
| 25 | 10 |  |  | 2-way valve, ext. threat, DN25, PN16, kvs 10 | DE25B10 |
| 32 | 16 |  |  | 2-way valve, ext. threat, DN32, PN16, kvs 16 | DE32B16 |
| 40 | 25 |  |  | 2-way valve, ext. threat, DN40, PN16, kvs 25 | DE40B25 |
| 50 | 40 |  |  | 2-way valve, ext. threat, DN50, PN16, kvs 40 | DE50B40 |

Valve with internal threads (DI)

| DN | kvs-value | Connection | Nominal pressure | Description | OS.-No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | 0.63 |  |  | 2-way valve, int. threat, DN15, PN16, kvs 0.63 | DI15B0.63 |
| 15 | 1 |  |  | 2-way valve, int. threat, DN15, PN16, kvs 1.0 | DI15B1.0 |
| 15 | 1.6 |  |  | 2-way valve, int. threat, DN15, PN16, kvs 1.6 | DI15B1.6 |
| 15 | 2.5 |  |  | 2-way valve, int. threat, DN15, PN16, kvs 2.5 | DI15B2.5 |
| 15 | 4.0 |  |  | 2-way valve, int. threat, DN15, PN16, kvs 4.0 | DI15B4.0 |
| 20 | 6.3 |  |  | 2-way valve, int. threat, DN20, PN16, kvs 6.3 | DI20B6.3 |
| 25 | 10 |  |  | 2-way valve, int. threat, DN25, PN16, kvs 10 | DI25B10 |
| 32 | 16 |  |  | 2-way valve, int. threat, DN32, PN16, kvs 16 | DI32B16 |
| 40 | 25 |  |  | 2-way valve, int. threat, DN4O, PN16, kvs 25 | DI40B25 |
| 50 | 40 |  |  | 2-way valve, int. threat, DN50, PN16, kvs 40 | DI50B40 |
| 15 | 0.63 |  |  | 2-way valve, int. threat, DN15, PN16, kvs 0.63, stainless plug | DI15B0.63SS |
| 15 | 1 |  |  | 2-way valve, int. threat, DN15, PN16, kvs 1.0, stainless plug | DII5B1.OSS |
| 15 | 1.6 | Internal thread | PN16 | 2-way valve, int. threat, DN15, PN16, kvs 1.6, stainless plug | DI15B1.6SS |
| 15 | 2.5 |  |  | 2-way valve, int. threat, DN15, PN16, kvs 2.5, stainless plug | DI15B2.5SS |
| 15 | 4.0 |  |  | 2-way valve, int. threat, DN15, PN16, kvs 4.0, stainless plug | DII5B4.OSS |
| 20 | 6.3 |  |  | 2-way valve, int. threat, DN2O, PN16, kvs 6.3, stainless plug | DI20B6.3SS |
| 25 | 10 |  |  | 2-way valve, int. threat, DN25, PN16, kvs 10, stainless plug | DI25B10SS |
| 32 | 16 |  |  | 2-way valve, int. threat, DN32, PN16, kvs 16, stainless plug | DI32B16SS |
| 40 | 25 |  |  | 2-way valve, int. threat, DN4O, PN16, kvs 25, stainless plug | DI4OB25SS |
| 50 | 40 |  |  | 2-way valve, int. threat, DN50, PN16, kvs 40, stainless plug | DI50B40SS |

## Accessories



Only for DE

|  | Description |  | Dimension |  | Part No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | ASV-CS-xx-I-F | Flat connection set |  |  |  |
|  |  | consisting of <br> - 1 union nut | DN15 | $\begin{aligned} & \text { a: G } 1^{1 / 8 "} \\ & \text { c: G 1/2" } \end{aligned}$ | ASV-CS-15-I-F |
|  |  | - 1 tailpiece | DN2O | $\begin{aligned} & \text { a: G } 1^{1 / 4 " ~} \\ & \text { c: G } 3 / 4^{\prime \prime} \end{aligned}$ | ASV-CS-20-I-F |
|  |  |  | DN25 | $\begin{aligned} & \text { a: G } 1^{1 / 2 " ~} \\ & \text { c: G 1" } \end{aligned}$ | ASV-CS-25-I-F |
|  |  |  | DN32 | $\begin{aligned} & \text { a: G } 2 \\ & \text { c: G } 1^{1 / 4 "} \end{aligned}$ | ASV-CS-32-I-F |
|  |  |  | DN4O | $\begin{aligned} & \text { a: G } 2^{1 / 4 "} \\ & \text { c: G } 1^{1 / 2} 2^{\prime \prime} \end{aligned}$ | ASV-CS-40-I-F |
|  |  |  | DN50 | $\begin{aligned} & \text { a: G } 2^{3 / 4} 4^{\prime \prime} \\ & \text { c: G 2" } \end{aligned}$ | ASV-CS-50-I-F |

## Naming key accessories

| ASV | -CS | -15 | -I | -F |
| :---: | :---: | :---: | :---: | :---: |
| Accessories and spares for valves | Connection Set | Type | Type of thread |  |
| ASV =Accessories and spares for valves | CS $=$ Connection Set | $\begin{aligned} & 15 \\ & 20 \\ & 25 \\ & 32 \\ & 40 \\ & 50 \end{aligned}$ | I = Internal Thread | $F=$ Flat Sealing |


| DN | Description | OS-No. |
| :---: | :--- | :--- |
| DN15 | Connection set type 13, DN15, internal thread, flat | ASV-CS-15-I-F |
| DN20 | Connection set type 13, DN20, internal thread, flat | ASV-CS-20-I-F |
| DN25 | Connection set type 13, DN25, internal thread, flat | ASV-CS-25-I-F |
| DN32 | Connection set type 13, DN32, internal thread, flat | ASV-CS-32-I-F |
| DN40 | Connection set type 13, DN40, internal thread, flat | ASV-CS-40-I-F |
| DN50 | Connection set type 13, DN50, internal thread, flat | ASV-CS-50-I-F |

## Spare Parts



## Naming key spare parts

| ASV | -SBA | Range |
| :---: | :--- | :---: |
| Accessories and spares for valves |  | $\mathbf{- 1}$ |
| ASV = Accessories and spares for valves | PAC = Packing, complete | Type |
|  | PN = Packing, nut | 1 |
|  | SBA $=$ Stem button assy | 2 |

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