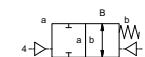
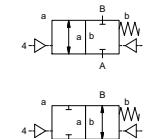


**5-VMK-H 40**  
**5-VFK-H 40**

valve type with pilot valve


**coaxial valve**
**type** **VMK-H 40**  
**VFK-H 40**

|                       |  |
|-----------------------|--|
| <b>2/2 way valve</b>  | <b>externally controlled</b>                 |
| <b>pressure range</b> | PN 0-200 bar                                 |
| <b>orifice</b>        | DN 40 mm                                     |
| <b>connection</b>     | thread/flange                                |
| <b>function</b>       | valve<br>normally closed<br>symbol <b>NC</b> |
|                       | valve<br>normally open<br>symbol <b>NO</b>   |



|                       |   |
|-----------------------|---|
| <b>design</b>         | pressure balanced, with spring return   |
| <b>body materials</b> | ①<br>③<br>④ steel, nickel plated<br>⑤ without non-ferr. metals<br>⑥ stainless steel |
| <b>valve seat</b>     | synthetic resin on metal  |
| <b>seal materials</b> | NBR   |
|                       | PTFE, FPM, CR, EPDM   |

 Above stated body materials refer to the valve port connections that get in contact with the media only!

**details needed for main valve**

- orifice
- port
- function NC/NO
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- type of actuation

**details needed for pneumatic actuation**

- nominal voltage
- type of protection
- actuation pressure range min/max
- low wattage coil, actuation pressure range 4-7 bar
- pilot valve type

**details needed for hydraulic actuation**

- actuation pressure range min/max
- hydraulic control valve function

| <b>general specifications</b> |   | <b>options</b>  |
|-------------------------------|---|---|
| ports                         | VMK-H threads G 1 1/2   | special threads   |
|                               | VFK-H flanges PN 160 /250   | special flanges   |
| function                      | NC  | NO  |
| pressure range                | bar 0-200   |   |
| K <sub>v</sub> value          | m <sup>3</sup> /h 31,0  |   |
| vacuum                        | leak rate < 10 <sup>-4</sup> mbar·l·s <sup>-1</sup>                   |   |
| pressure-vacuum               | P <sub>1</sub> ↔ P <sub>2</sub>                                       |   |
| back pressure                 | P <sub>2</sub> > P <sub>1</sub>                                       | available (max. 16 bar)   |
| media                         | gaseous - liquid - highly viscous - gelatinous - pasty - contaminated |   |
| abrasive media                |   | version available   |
| damping                       |   |   |
| flow direction                | opening   |   |
| switching cycles              | closing by throttles on pilot valve                                   | bi-directional upon request   |
| switching time                | 1/min 150   |   |
| media temperature             | ms opening 100-3000 closing 100-3000                                  | remote mounted pilot valve outside temperature range of media max. 160 °C |
| ambient temperature           | °C direct mounted pilot valve 60                                      |   |
| flush ports                   | °C direct mounted pilot valve 50                                      | available   |
| leak ports                    |   | inductive   |
| limit switches                |   |   |
| manual override               | via pilot valve   | LR/GL/WAZ   |
| approvals                     |   | mounting brackets   |
| mounting                      |   |   |
| weight                        | kg VMK-H 11,3 VFK-H 13,6  | upon request  |
| additional equipment          |   |   |

| <b>electrical specifications</b> |   | <b>options</b>               |
|----------------------------------|---|------------------------------|
| nominal voltage                  | U <sub>n</sub> DC 24 V  | special voltage upon request |
|                                  | U <sub>n</sub> AC 230 V 50 Hz   | special voltage upon request |
| power consumption                | DC 4,8 W  | 2,5 W                        |
| protection                       | AC pick up 11,0 VA holding 8,5 VA   |                              |
| energized duty rating            | IP65 (P54) acc. DIN 40050   |                              |
| connection                       | ED 100%   |                              |
| optional                         | plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm |                              |
| additional equipment             | M12x1 connector acc. DESINA   | connector acc. VDMA          |
| max. temperature                 | illuminated plug with varistor  |                              |
| media                            | 60°C  |                              |
| ambient                          | 50°C  |                              |
| explosion proof                  | E Ex e II T5 nominal voltage U <sub>n</sub>                                 | DC 24 V 3,25 W               |
|                                  | power consumption   | AC 230 V 50 Hz 2,90 W        |

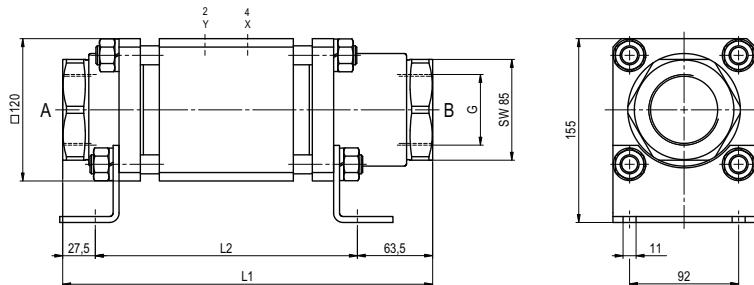
| <b>pneumatic specifications</b> |                            | <b>options</b>  |
|---------------------------------|----------------------------|---|
| actuation pressure range        | bar 4-10                   |   |
| air consumption                 | cm <sup>3</sup> /stroke 65 |   |
| cycle speed                     |                            | main valve speed variable by throttles on pilot valve |
| control                         |                            | preferably 5/2 way pilot valve                        |
| pilot valve interface           | co-ax / Namur              | ISO 1   |
| actuator ports                  | 2/4 G 1/8                  | G 1/4   |

| <b>hydraulic specifications</b> |                   | <b>options</b>                   |
|---------------------------------|-------------------|----------------------------------|
| actuation pressure range        | bar 10-30 / 30-60 |                                  |
| control                         |                   | preferably 4/2 way control valve |
| actuator ports                  | X/Y G 1/4         | NPT 1/4                          |
| by media                        |                   |                                  |

■ specifications not highlighted are standard  
 specifications highlighted in grey are optional

## type VMK-H 40

function: **NC**  
closed when not energized

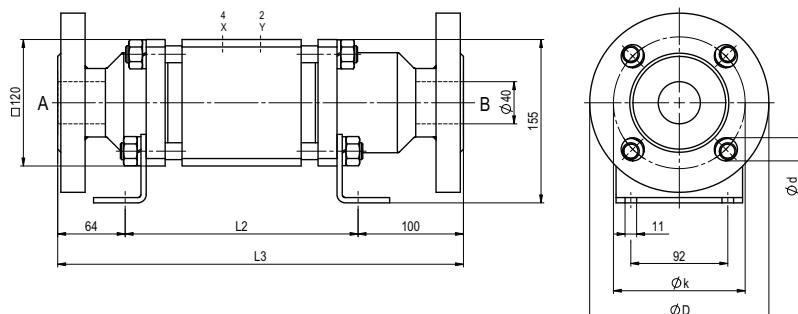


| constructive length                | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> |
|------------------------------------|----------------|----------------|----------------|
| standard                           | 312            | 221            | 385            |
| with 1/2 inductive limit switches  | 312            | 221            | 385            |
| with force-feed lubrication nipple | 312            | 221            | 385            |
| with mechanical limit switches     | -              | -              | -              |

| flanges PN | DIN       | ØD  | Øk  | Ød |
|------------|-----------|-----|-----|----|
| 160        | EN 1092-1 | 170 | 125 | 22 |
| 250        | EN 1092-1 | 185 | 135 | 26 |

## type VFK-H 40

function: **NO**  
open when not energized



### pneumatic actuation

