

09/2022



**!** 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
- pilot valve type

**details needed for hydraulic actuation**

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

**!** The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

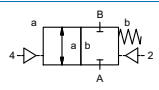
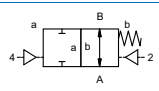
**!** If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

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

**2/2-way valve**

**pressure range**  
**orifice**  
**connection**  
**function**

**externally controlled**

PN 0-40 bar  
 DN 150 mm  
 flange  
 valve normally closed  
 symbol **NC**  
  
 valve normally open  
 symbol **NO**  


**operating principle**

**body material**

pressure balanced, with spring return  
 ① aluminium  
 ② steel galvanized  
 ③ without non-ferr. Metals  
 ④ steel, nickel plated  
 ⑤ stainless steel

**valve seat**

**seal materials**

synthetic materials on metal  
 NBR PTFE, FPM, CR, EPDM

**ports**

**function**  
**pressure range**

**general specifications**  
 VSV-F flanges PN 16 / 40  
 bar NC NO  
 0-16 / 0-40

**Kv value**  
**vacuum**  
**pressure-vacuum**

m<sup>3</sup>/h 274.0  
 leak rate < 10<sup>-6</sup> mbar•L•s<sup>-1</sup>  
 P<sub>1</sub> ↔ P<sub>2</sub> pressure side max. 40 bar  
 vacuum side leak rate upon request  
 available (max. 16 bar)

**back pressure**  
**media**

P<sub>2</sub> > P<sub>1</sub> gaseous - liquid - highly viscous -  
 gelatinous - pasty - contaminated  
 available

**abrasive media**  
**damping**

opening by throttles on pilot valve  
 closing as marked  
 A ↔ B bi-directional upon request

**flow direction**  
**switching cycles**  
**switching time**

1/min 20  
 ms opening 600-3000  
 closing 600-3000

**media temperature**  
**ambient temperature**  
**flush ports**

°C direct mounted pilot valve 60 remote mounted pilot valve outside  
 °C direct mounted pilot valve 50 temperatur range of media max. 160 °C

**leak ports**  
**limit switches**  
**manual override**

available  
 available  
 inductive / mechanical upon request

**approvals**  
**mounting**  
**weight**  
**additional equipment**

via pilot valve LR/DNV/WAZ  
 kg VSV-F 87.0 upon request

**nominal voltage**

**electrical specifications**  
 U<sub>n</sub> DC 24 V special voltage upon request  
 U<sub>n</sub> AC 230 V 50 Hz special voltage upon request  
 DC 4.8 W 2.5 W [actuation pressure range 4-7 bar]  
 AC pick up 11.0 VA holding 8.5 VA  
 IP65 (P54) acc. DIN 40050  
 ED 100%  
 plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm

**power consumption**  
**protection**  
**energized duty rating**  
**connection**

M12x1 connector acc. DESINA connector acc. VDMA  
 illuminated plug with varistor

**optional**  
**additional equipment**  
**max. temperature**

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

**actuation pressure range**  
**air consumption**  
**cycle speed**  
**control**  
**pilot valve interface**  
**actuator ports**

**pneumatic specifications**  
 bar 4-8  
 cm<sup>3</sup>/stroke 550  
 main valve speed variable by throttle on pilot valve  
 preferably 5/2 way pilot valve  
 2/4 G 1/4 G 3/8

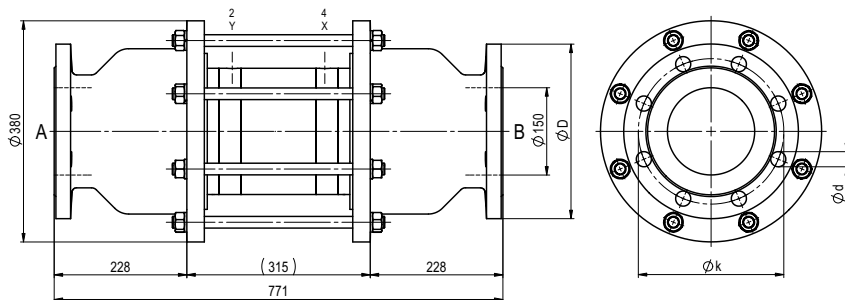
**actuation pressure range**  
**control**  
**actuator ports**  
**by media**

**hydraulic specifications**  
 bar 15-30 / 30-60  
 preferably 4/2 way control valve  
 X/Y G 1/4 NPT 1/4  
 upon request

# coax® data sheet - coaxial valve

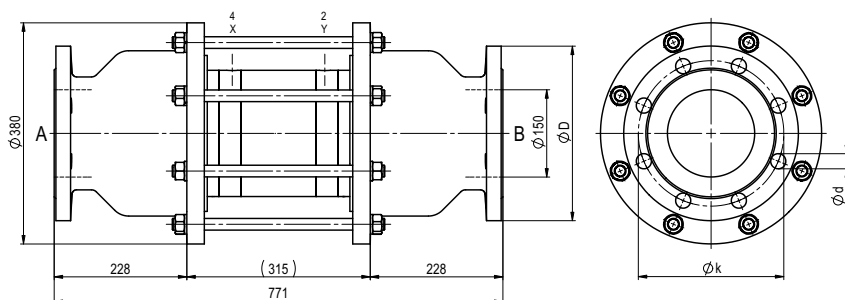
## type VSV-F 150

function: **NC**  
closed when not energized



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	285	240	22
40	EN 1092-1	300	250	26

function: **NO**  
open when not energized



### pneumatic specifications

