

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.

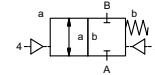
■ specifications not highlighted are standard  
 ■ specifications highlighted in grey are optional

**2/2-way valve**

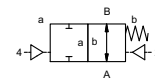
**pressure range**  
**orifice**  
**connection**  
**function**

**externally controlled**

PN 0-40 bar  
 DN 125 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
- ④ steel, nickel plated
- ⑤ without non-ferr. Metals
- ⑥ 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

**options**

special flanges

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

m<sup>3</sup>/h 198.0  
 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  
 P<sub>2</sub> > P<sub>1</sub> vacuum side leak rate upon request  
 available (max. 16 bar)

**back pressure**  
**media**

gaseous - liquid - highly viscous -  
 gelatinous - pasty - contaminated

**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 30  
 ms opening 400-3000  
 closing 400-3000

**media temperature**  
**ambient temperature**

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

**flush ports**  
**leak ports**

available  
 available  
 inductive / mechanical upon request

**limit switches**  
**manual override**

via pilot valve LR/DNV/WAZ

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

kg VSV-F 51.0 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]

**power consumption**

**protection**  
**energized duty rating**

AC pick up 11.0 VA holding 8.5 VA  
 IP65 (P54) acc. DIN 40050  
 ED 100%

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

plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm  
 M12x1 connector acc. DESINA connector acc. VDMA  
 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

**actuation pressure range**  
**air consumption**

**pneumatic specifications**

bar 4-8  
 cm<sup>3</sup>/stroke 275  
 main valve speed variable by throttles on pilot valve  
 preferably 5/2 way pilot valve

**cycle speed**  
**control**  
**pilot valve interface**  
**actuator ports**

2/4 G 1/4 G 3/8

**actuation pressure range**  
**control**

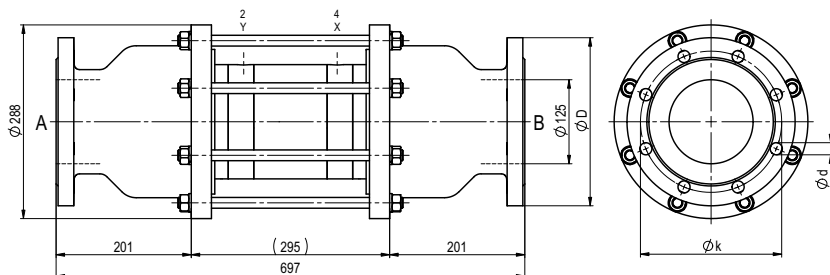
**hydraulic specifications**

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

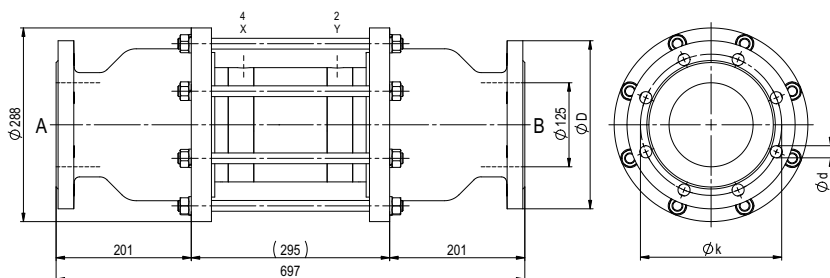
## type VSV-F 125

function: **NC**  
closed when not energized



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	250	210	18
40	EN 1092-1	270	220	26

function: **NO**  
open when not energized



### pneumatic specifications

