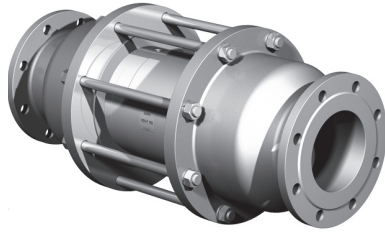


coaxial valve

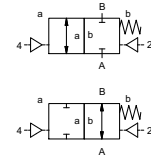
type VSV-F 150

5-VSV-F 150

valve type with pilot valve



2/2 way valve externally controlled
pressure range PN 0-40 bar
orifice DN 150 mm
connection flange
function valve normally closed symbol **NC**
 valve normally open symbol **NO**



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

design pressure balanced, with spring return
body materials ① aluminium ② steel, galvanized
 ③ ⑤ without non-ferr. metals
 ④ steel, nickel plated ⑥ stainless steel
valve seat synthetic resin on metal
seal materials NBR PTFE, FPM, CR, EPDM

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

⚠ 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.

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

general specifications

ports	VSV-F	flanges PN 16/40	
function		NC	special flanges
pressure range	bar	0-16/0-40	NO
Kv value	m ³ /h	274,0	
vacuum	leak rate		< 10 ⁻⁶ mbar·l/s ⁻¹
pressure-vacuum	P ₁ ↔ P ₂		pressure side max. 40 bar vacuum side leak rate upon request
back pressure	P ₂ > P ₁		available (max. 16 bar)
media		gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A ↔ B	as marked	bi-directional upon request
switching cycles	1/min	20	
switching time	ms	opening 600-3000 closing 600-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside temper.
ambient temperature	°C	direct mounted pilot valve 50	ature range of media max.160°C
flush ports			available
leak ports			available
limit switches			inductive/mechanical upon request
manual override		via pilot valve	
approvals			LR/GL/WAZ
mounting			
weight	kg	VSV-F 87,0	
additional equipment			upon request

electrical specifications

nominal voltage	U _n	DC 24V	special voltage upon request
	U _n	AC 230V 50 Hz	special voltage upon request
power consumption	DC	4,8 W	2,5 W
	AC	pick up 11,0 VA holding 8,5 VA	
protection	IP 65 (P54)	acc. DIN 40 050	
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form B, 4 positions x 90° / wire diameter 6-8 mm	
additional equipment		illuminated plug with varistor	
optional	M12x1	connector acc. DESINA	connector acc. VDMA
max. temperature	media	60°C	
	ambient	50°C	
explosion proof	EEx m II T5	nominal voltage U _n	direct current 24 V 3,25 W
		power consumption	alternating current 230 V 50 Hz 2,90 W

pneumatic specifications

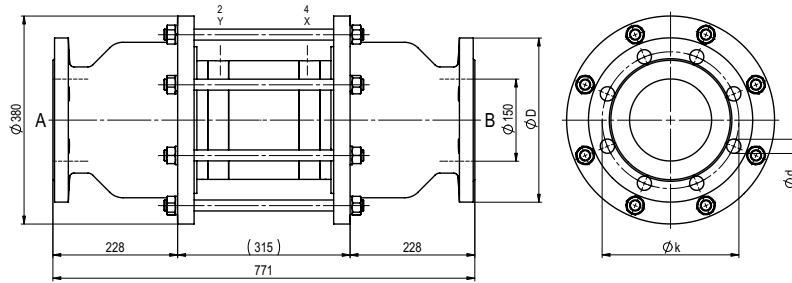
actuation pressure range	bar	4-10	
air consumption	cm ³ /stroke	550	
cycle speed		main valve speed variable by throttles on pilot valve	
control		preferably 5/2-way pilot valve	
actuator ports	2/4	G 1/4	G 3/8

hydraulic specifications

actuation pressure range	bar	10-30 / 30-60	
by media			upon request
control		preferably 4/2-way control valve	
actuator ports	X/Y	G 1/4	NPT 1/4

type VSV-F 150

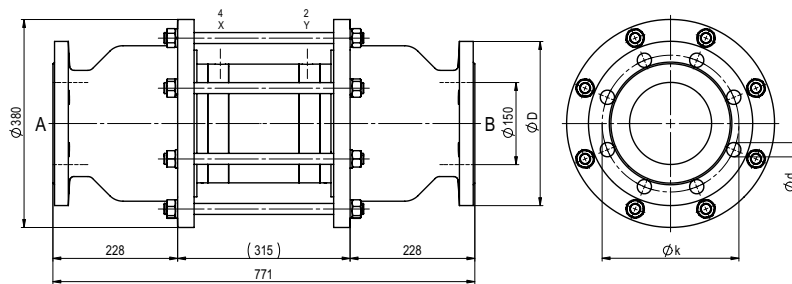
function: **NC**
closed when not energized



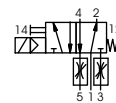
flanges PN	DIN	$\varnothing D$	$\varnothing k$	$\varnothing d$
16	2633	285	240	22
40	2635	300	250	26

type VSV-F 150

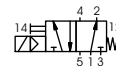
function: **NO**
open when not energized



pneumatic actuation



5/2-way-pilot valve
flow rate 700 l/min
pressure range 3-10 bar G 1/8



5/2-way-pilot valve ISO 1
flow rate 700 l/min
pressure range 3-10 bar G 1/4

The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.

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