

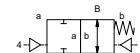
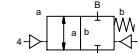
# coaxial valve type **VSV-F 100**

## 5-VSV-F 100

### valve type with pilot valve



<b>2/2 way valve</b>	<b>externally controlled</b>
<b>pressure range</b>	PN 0-40 bar
<b>orifice</b>	DN 100 mm
<b>connection</b>	flange
<b>function</b>	valve
	normally closed
	symbol <b>NC</b>
	valve
	normally open
	symbol <b>NO</b>



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

<b>design</b>	pressure balanced, with spring return
<b>body materials</b>	<ul style="list-style-type: none"> <li>① aluminium</li> <li>③</li> <li>④ steel, nickel plated</li> <li>② steel, galvanized</li> <li>⑤ without non-ferr. metals</li> <li>⑥ stainless steel</li> </ul>
<b>valve seat</b>	synthetic resin on metal
<b>seal materials</b>	NBR
	PTEF, EPM, 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

general specifications		
ports	VSV-F	flanges PN 16 / 40
function	NC	
pressure range	bar	0-16 / 0-40
Kv value	m³/h	140,0
vacuum	leak rate	
pressure-vacuum	P1 ↔ P2	
back pressure media	P2 > P1	gaseous - liquid - high gelatinous - pasty - cold
abrasive media damping		
flow direction	opening	
switching cycles	closing	by throttles on pilot valve
switching time	A ↔ B	as marked
media temperature	1/min	40
ambient temperature	ms	opening 300-3000 ms
	°C	direct mounted pilot valve
flush ports	°C	direct mounted pilot valve
leak ports		
limit switches		
manual override		via pilot valve
approvals		
mounting		
weight		
additional equipment	kg	VSV-F 38,0

options
special flanges
NO
$< 10^{-6}$ mbar·l·s <sup>-1</sup>
pressure side max. 40 bar
vacuum side leak rate upon request
available (max. 16 bar)
version available
bi-directional upon request
remote mounted pilot valve outside temperatur range of media max. 160 °C
available
available
inductive / mechanical upon request
LR/GL/WAZ
upon request

 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.

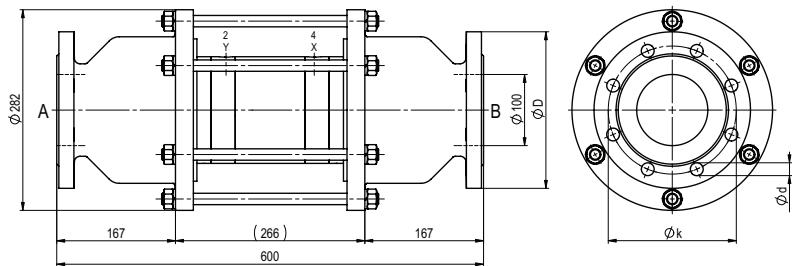
electrical specifications			options
<b>nominal voltage</b>	U <sub>n</sub>	DC 24 V	special voltage upon request
	U <sub>n</sub>	AC 230 V 50 Hz	special voltage upon request
<b>power consumption</b>	DC	4,8 W	2,5 W
	AC	pick up 11.0 VA holding 8,5 VA	
<b>protection</b>	IP65 (P54)	acc. DIN 40050	
<b>energized duty rating</b>	ED	100%	
<b>connection</b>		plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm	
<b>optional</b>		M12x1 connector acc. DESINA	
<b>additional equipment</b>		connector acc. VDMA	
<b>max. temperature</b>	media	illuminated plug with varistor	
	ambient	60°C	
		50°C	
<b>explosion proof</b>	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
pneumatic specifications			options
<b>actuation pressure range</b>	bar	4-10	
<b>air consumption</b>	cm <sup>3</sup> /stroke	135	
<b>cycle speed</b>		main valve speed variable by throttleson pilot valve	
<b>control</b>		preferably 5/2 way pilot valve	
<b>pilot valve interface</b>			
<b>actuator ports</b>	2/4	G 1/4	G 3/8

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

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

## type VSV-F 100

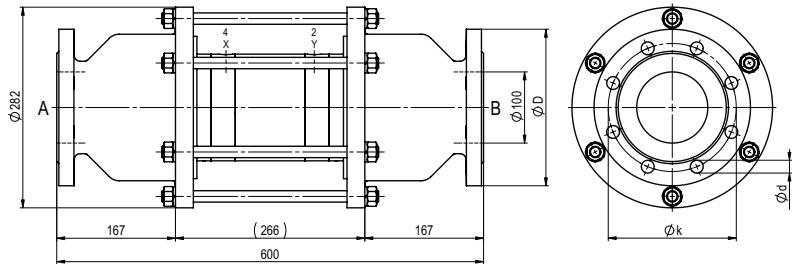
function: **NC**  
closed when not energized



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	220	180	18
40	EN 1092-1	235	190	22

## type VSV-F 100

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