

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
- inlet pressure at A, B or C
- 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

3/2 way valve

pressure range
orifice
connection
function

operating principle

body material
valve seat
seal materials

ports
function
pressure range

Kv value
vacuum
pressure-vacuum
back pressure
media
abrasive media
damping

media temperature
ambient temperature
flush ports
leak ports
limit switches
manual override
approvals
mounting
weight
additional equipment

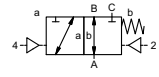
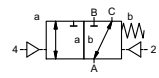
nominal voltage
power consumption
protection
energized duty rating
connection
optional
additional equipment
max. temperature
explosion proof

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

actuation pressure range
control
actuator ports
by media

externally controlled

PN 0-16 bar
DN 125 mm
flange
valve
normally closed (A ► B)
symbol NC
valve
normally open (A ► B)
symbol NO



pressure balanced, with spring return, intersecting switch-over
①
② steel galvanized
③
④ steel, nickel plated
⑤ without non-ferr. Metals
⑥ stainless steel

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

general specifications

VSV-F	flanges PN 16	options	special flanges
	NC		NO
bar	0-16		
	A ⇒ B max. 16 / B ⇒ A max. 16 / A ⇒ C max. 16 / C ⇒ A max. 16		
m³/h	198.0		
leak rate		< 10 ⁻⁶ mbar•L•s ⁻¹	
P ₁ ⇔ P ₂		pressure side max. 16 bar	vacuum side leak rate upon request
P ₂ > P ₁	see pressure range		
	gaseous - liquid - highly viscous -		
	gelatinous - pasty - contaminated		available
opening			
closing	by throttles on pilot valve		
1/min	see pressure range		
ms	opening 400-3000		
	closing 400-3000		
°C	direct mounted pilot valve 60	remote mounted pilot valve outside	
°C	direct mounted pilot valve 50	temperatur range of media max. 160 °C	
		available	
		available	
		inductive / mechanical upon request	
	via pilot valve		
		LR/DNV/WAZ	
kg	VSV-F 68.5		upon request

electrical specifications

U _n	DC 24 V	options	special voltage upon request
U _n	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		
M12x1	connector acc. DESINA	connector acc. VDMA	
	illuminated plug with varistor		
media	60°C		
ambient	50°C		
E Ex e II T5	nominal voltage U _n	DC 24 V	3.25 W
	power consumption	AC 230 V 50 Hz	2.90 W

pneumatic specifications

bar	4-8	options	
cm³/stroke	275		
	main valve speed variable by throttleson pilot valve		
	preferably 5/2 way pilot valve		
2/4	G 1/4	G 3/8	

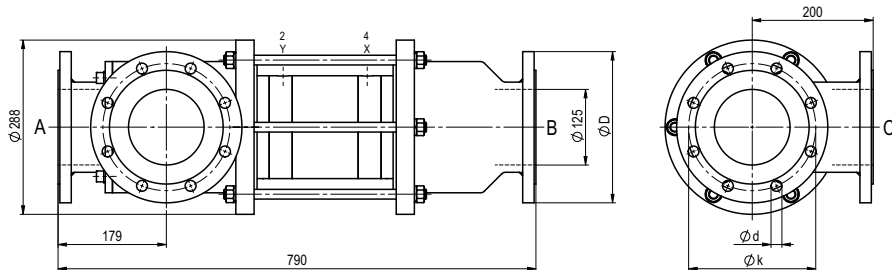
hydraulic specifications

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

coax® data sheet - coaxial valve

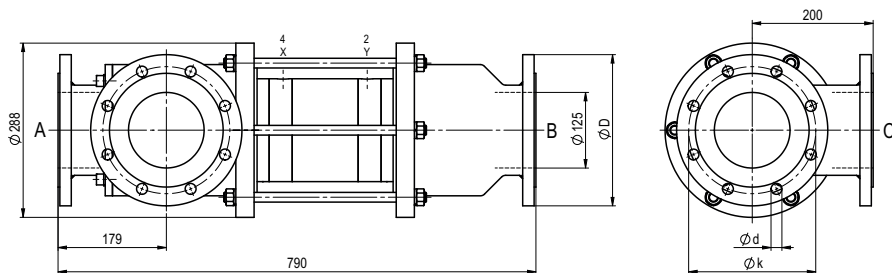
type VSV-F 125 DR

function: **NC**
closed when not energized (A ► B)



flanges PN	DIN	$\varnothing D$	$\varnothing k$	$\varnothing d$
16	EN 1092-1	250	210	18

function: **NO**
open when not energized (A ► B)



pneumatic specifications

