

type VMK 10 DR

5-VMK 10 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-64 bar orifice DN 10 mm connection thread

function

valve normally closed (A ►B) symbol

valve normally open (A ►B)

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

design pressure balanced, with spring return, intersecting switch-over

body materials 1) brass (5) 3 brass, nickel plated

(4) 6 stainless steel

valve seat synthetic resin on metal

PTFE, FPM, CR, EPDM seal materials NBR

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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

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

	genera	l specifications	options
ports	VMK	threads G 1/4 - G 3/4	special threads
function		NC	NO
pressure range	bar	0-16/0-40/0-64	110
pressure range	bai	$A \Rightarrow B \text{ max.64} / B \Rightarrow A \text{ max.16} / A \Rightarrow$	C may 64 / C 🖒 A may 64
Kv value	m³/h	2.5	C IIIax.047 C -> A IIIax.04
vacuum	leak rate	2,0	< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 64 bar
process racaum			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			upon request
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	680	
switching time	ms	opening 30-3000 closing 50-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe-
ambient temperature	°C	direct mounted pilot valve 50	rature range of media max.160°C
flush ports			
leak ports			
limit switches			inductive
manual override		via pilot valve	
approvals			LR/GL/WAZ
mounting		\##Z 4 0	mounting brackets
weight	kg	VMK 1,8	
additional equipment			upon request

	electrica	l specifications	options				
nominal voltage	Un	DC 24V	special voltage upon request				
	Un	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	olug 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 Un	direct current 24 V	3,25 W			
		power consumption	alternating current 230 V 50 Hz	2,90 W			

actuation pressure range	bar	4-10				
air consumption	cm³/stroke	7				
cycle speed	main valve s	main valve speed variable by throttles on pilot valve				
control	preferably 5	/2-way pilot valve				
pilot valve interface	standard / N	AMUR				
actuator ports	2/4	G 1/8				

hydraulic specifications 4-10

preferably 4/2-way control valve

G 1/8

pneumatic specifications

options

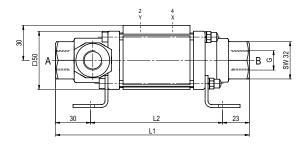
options

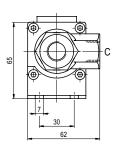
the materials or seals used, may not be suitable for the intended application.

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

actuator ports

actuation pressure range

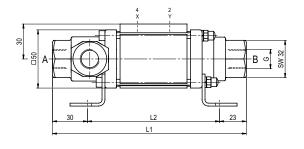


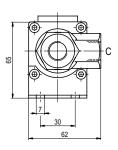


constructive length	L ₁	L2
standard	166,5	113,5
with 1/2 inductive limit switches	186,5	133,5

type VMK 10 DR

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





pneumatic actuation (separately)





type VMK 15 DR

5-VMK 15 DR 5-VFK 15 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-100 bar orifice DN 15 mm connection thread/flange

function valve

normally closed (A ►B) symbol

VFK 15 DR

valve

normally open (A ►B)

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

design pressure balanced, with spring return, intersecting switch-over

body materials 1 brass 2 steel, galvanized (5) without non-ferr. metals

3 brass, nickel plated 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 pressureinlet 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
- 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.

	general	specifications	options
ports	VMK	threads G 3/8 - G 3/4	special threads
·	VFK	flanges PN 16/40/100	special flanges
function		NC	NO
pressure range	bar	0-16/0-40/0-64/0-100	
		A ⇒ B max.100 / B ⇒ A max.16 / A ⇒	C max.100 / C A max.100
Kv value	m³/h	5,6	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 100 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	200	
switching time	ms	opening 50-3000 closing 50-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe
ambient temperature	°C	direct mounted pilot valve 50	rature 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			mounting brackets
weight	kg	VMK 4,5 VFK 5,3	
additional equipment			upon request

	electrica	l specifications	options			
nominal voltage	Un	DC 24V	special voltage upon request			
	Un	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		olug 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 Un	direct current 24 V 3,3	25 W		
		power consumption	alternating current 230 V 50 Hz 2,	90 W		

	pneuma	tic specifications	options
actuation pressure range	bar	4-10	
-1	3/-41	44	

air consumption cycle speed control pilot valve interface actuator ports

cm³/stroke main valve speed variable by throttles on pilot valve preferably 5/2-way pilot valve co-ax / NAMUR G 1/8

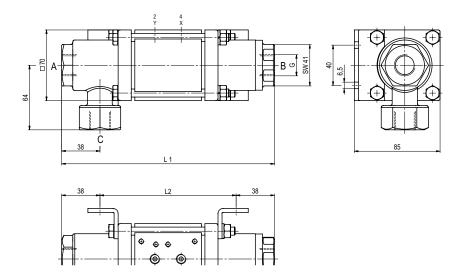
hydraulic specifications

actuation pressure range control actuator ports

10-30 / 30-60 preferably 4/2-way control valve NPT 1/4 G 1/4

options

specifications not highlighted are standard specifications highlighted in grey are optional

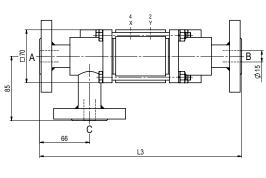


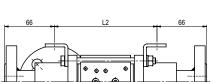
constructive length	L ₁	L2	Lз
standard	211	135	267
with 1/2 inductive limit switches	237	161	293
with force-feed lubrication nipple	244	168	300
with mechanical limit switches	237	161	293

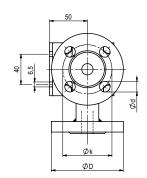
flanges PN	DIN	øD	øk	ød
16	2633	95	65	14
40	2635	95	65	14
100	2637	105	75	14

type VFK 15 DR

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







pneumatic actuation (separately)



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





COGX data sheet

coaxial valve

5-VMK 20 DR 5-VFK 20 DR

valve type with pilot valve

type VMK 20 DR VFK 20 DR



3/2 way valve externally controlled

pressure range PN 0-100 bar orifice DN 20 mm connection thread/flange

function valve

normally closed (A ►B) symbol

valve

normally open (A ▶B)

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

design pressure balanced, with spring return, intersecting switch-over

body materials 1 brass

2 steel, galvanized 3 brass, nickel plated (5) without non-ferr. metals

4 steel, nickel plated

valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

6 stainless steel

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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.

	general	specific	ations	options
ports	VMK	threads G 3	3/4 - G 1 1/4	special threads
•	VFK	flanges PN	16/40/100	special flanges
function		NC		NO
pressure range	bar	0-16/0-40/0)-64/0-100	
		A ⇒ B max	.100 / B ⇒ A max.16	6 / A ⇒ C max.100 / C ⇒ A max.100
Kv value	m³/h	8,3		
vacuum	leak rate			< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂			pressure side max. 100 bar
				vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressu	re range	
media		gaseous - I	iquid - highly viscou	IS -
		gelatinous	- pasty - contaminat	ted
abrasive media				version available
damping	opening			
	closing	by throttles	on pilot valve	
flow direction		see pressu	re range	
switching cycles	1/min	200		
switching time	ms		-3000 closing 50-3	
media temperature	°C		nted pilot valve 60	remote mounted pilot valve outside tempe
ambient temperature	°C	direct mour	nted pilot valve 50	rature range of media max.160°C
flush ports				available
leak ports				available
limit switches				inductive/mechanical upon request
manual override		via pilot val	ve	
approvals				LR/GL/WAZ
mounting	-			mounting brackets
weight	kg	VMK 5,8	VFK 7,2	
dditional equipment				upon request

	electrica	ll specifications	options				
nominal voltage	Un	DC 24V	special voltage upon request				
	Un	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	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 Un	direct current 24 V	3,25 W			
		power consumption	alternating current 230 V 50 Hz 2	2,90 W			

pneumatic specifications

options

options

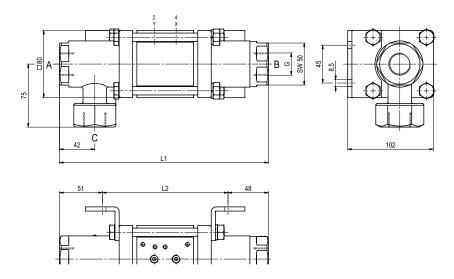
actuation pressure range air consumption cycle speed control pilot valve interface actuator ports

bar	4-10	
cm³/stroke	11	
main valve s	speed variable by throttles on pilot valve	
preferably 5	2-way pilot valve	
co-ax / NAM	UR	ISO 1
2/4	G 1/8	G 1/4

hydraulic specifications

actuation pressure range control actuator ports

bar	10-30 / 30-60		
preferabl	ly 4/2-way control valve		
X/Y	G 1/4	NPT 1/4	

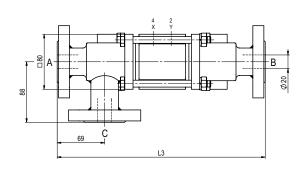


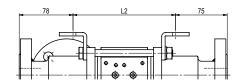
constructive length	L ₁	L2	L3
standard	248	149	302
with 1/2 inductive limit switches	267	168	321
with force-feed lubrication nipple	286	187	340
with mechanical limit switches	269	170	323

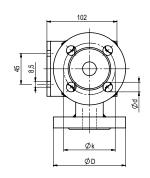
flanges PN	DIN	øD	øk	ød
16	2633	105	75	14
40	2635	105	75	14
100	2637	130	90	18

type VFK 20 DR

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







pneumatic actuation (separately)



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





type VMK 25 DR

5-VMK 25 DR 5-VFK 25 DR

valve type with pilot valve



VFK 25 DR

3/2 way valve externally controlled pressure range PN 0-100 bar

orifice DN 25 mm connection thread/flange

function valve

normally closed (A ►B) symbol

valve

normally open (A ►B)



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

body materials

design pressure balanced, with spring return, intersecting switch-over

1 brass

2 steel, galvanized

6 stainless steel

3 brass, nickel plated

(5) without non-ferr. metals

4 steel, nickel plated valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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.

	general	specifications	options
ports	VMK	threads G 1 - G 1 1/2	special threads
•	VFK	flanges PN 16/40/100	special flanges
function		NC	NO
pressure range	bar	0-16/0-40/0-64/0-100	
		A ⇒ B max.100 / B ⇒ A max.16 / A ⇒ 0	C max.100 / C ⇒ A max.100
Kv value	m³/h	13,3	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 100 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	200	
switching time	ms	opening 50-3000 closing 50-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe
ambient temperature	°C	direct mounted pilot valve 50	rature 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		100/00	mounting brackets
weight	kg	VMK 8,0 VFK 9,6	
additional equipment			upon request

	electrica	l specifications	options		
nominal voltage	Un	DC 24V	special voltage upon request		
	Un	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	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 Un	direct current 24 V	3,25 W	
		power consumption	alternating current 230 V 50 Hz	2,90 W	

	pneuma	tic specifications	options		
actuation pressure range	bar	4-10			
air consumption	cm³/stroke	18			
avala anaad	ad main value anded variable by threatles an pilot value				

air consumi cycle speed control pilot valve interface actuator ports

actuator ports

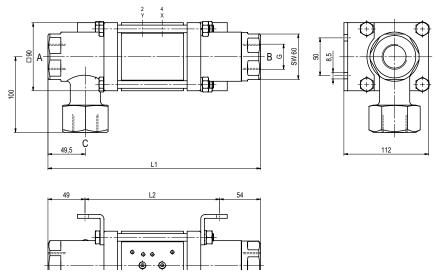
d	main valve s	speed variable by throttles on pilot valve			
ı	preferably 5/2-way pilot valve				
е	co-ax / NAMUR		ISO 1		
s	2/4	G 1/8	G 1/4		

hydraulic specifications 10-30 / 30 bar actuation pressure range control preferably 4/2-way con

0-60		
trol valve		
	NPT 1/4	

options

specifications not highlighted are standard specifications highlighted in grey are optional

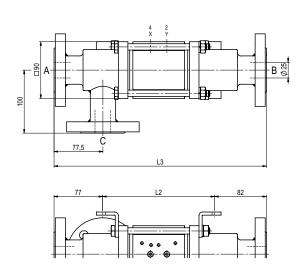


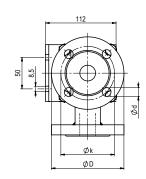
constructive length	L ₁	L2	Lз
standard	281	178	337
with 1/2 inductive limit switches	295	192	351
with force-feed lubrication nipple	311	208	367
with mechanical limit switches	305	202	361

flanges PN	DIN	øD	øk	ød
16	2633	115	85	14
40	2635	115	85	14
100	2637	140	100	18

type VFK 25 DR

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





pneumatic actuation (separately)



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





5-VMK 32 DR 5-VFK 32 DR

valve type with pilot valve

type VMK 32 DR VFK 32 DR



3/2 way valve externally controlled

pressure range PN 0-100 bar orifice DN 32 mm connection thread/flange

function valve

normally closed (A ►B) symbol

valve

normally open (A ►B) symbol

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

design pressure balanced, with spring return, intersecting switch-over body materials

1 brass

2 steel, galvanized 3 brass, nickel plated (5) without non-ferr. metals

4 steel, nickel plated

6 stainless steel

valve seat synthetic resin on metal

seal materials NBR

actua

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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 sui-

	general	specifica	ations	options
ports	VMK	threads G 1	1/4 - G 1 1/2	special threads
	VFK	flanges PN	16/40/100	special flanges
function	-	NC		NO
pressure range	bar	0-16/0-40/0	-64/0-100	
		A ⇒ B max.	100 / B A max.16	/ A ⇒ C max.100 / C ⇒ A max.100
Kv value	m³/h	18,9		
vacuum	leak rate			< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂			pressure side max. 100 bar
				vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressur	e range	
media		gaseous - li	quid - highly viscous	S -
		gelatinous -	pasty - contaminate	ed
abrasive media				version available
damping	opening			
	closing	by throttles	on pilot valve	
flow direction		see pressur	e range	
switching cycles	1/min	150		
switching time	ms		0-3000 closing 100	
media temperature	°C	direct moun	ted pilot valve 60	remote mounted pilot valve outside tempe
ambient temperature	°C	direct moun	ted pilot valve 50	rature range of media max.160°C
flush ports				available
leak ports				available
limit switches				inductive/mechanical upon request
manual override		via pilot valv	/e	
approvals				LR/GL/WAZ
mounting				mounting brackets
weight	kg	VMK 8,5	VFK 10,2	
additional equipment				upon request

	electrical specifications		options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	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 Un	direct current 24 V	3,25 W
		power consumption	alternating current 230 V 50 Hz	2,90 W

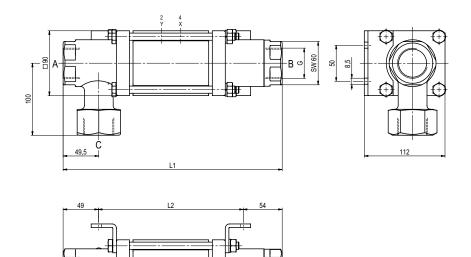
	•	•	•
ation pressure range	bar	4-10	
air consumption	cm³/stroke	23	
cycle speed	main valve s	speed variable by throttles on pilot valve	
control	preferably 5	/2-way pilot valve	
pilot valve interface	co-ax / NAM	IUR	ISO 1
actuator ports	2/4	G 1/8	G 1/4

options

pneumatic specifications

hydraulic specifications options 10-30 / 30-60 bar actuation pressure range control preferably 4/2-way control valve NPT 1/4 actuator ports G 1/4

table for the intended application.

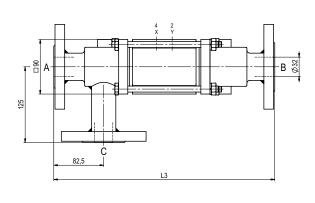


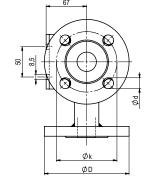
constructive length	L ₁	L2	Lз
standard	304	201	365
with 1/2 inductive limit switches	311	208	372
with force-feed lubrication nipple	341	238	402
with mechanical limit switches	339	236	400

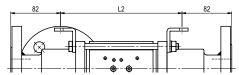
flanges PN	DIN	øD	øk	ød
16	2633	140	100	18
40	2635	140	100	18
100	2637	155	110	22

type VFK 32 DR

function: NO open when not energized (A \blacktriangleright B)







pneumatic actuation (separately)



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





VFK 40 DR

type VMK 40 DR

5-VMK 40 DR 5-VFK 40 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-100 bar orifice DN 40 mm connection thread/flange function valve

normally closed (A ►B)

symbol

valve

normally open (A ▶B)

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

design pressure balanced, with spring return, intersecting switch-over 2 steel, galvanized

body materials

(5) without non-ferr. metals

(3) 4 steel, nickel plated

valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

6 stainless steel

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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.

	general	specifications	options
ports	VMK	threads G 1 1/2 - G 2	special threads
	VFK	flanges PN 100	special flanges
function		NC	NO
pressure range	bar	0-64/0-100	> 100 bar
		A ⇒ B max.100 / B ⇒ A max.16 / A ⇒	C max.100 / C A max.100
Kv value	m³/h	31,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 100 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	150	
switching time	ms	opening 100-3000 closing 100-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe
ambient temperature	°C	direct mounted pilot valve 50	rature 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			mounting brackets
weight	kg	VMK 18,5 VFK 26,5	
additional equipment			upon request

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

pneumatic specifications

options

options

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

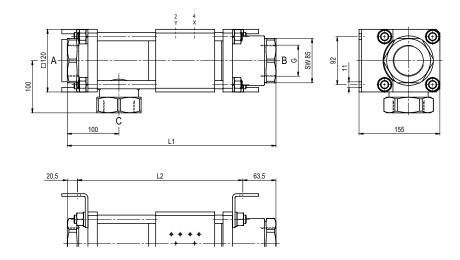
bar 4-10	
cm³/stroke 65	
main valve speed	variable by throttles on pilot valve
preferably 5/2-wa	y pilot valve
co-ax / NAMUR	ISO 1
2/4 G 1/	/8 G 1/4

hydraulic specifications

actuation pressure range control actuator ports

bar	10-30 / 30-60		
preferably 4	l/2-way control valve		
X/Y	G 1/4	NPT 1/4	

specifications not highlighted are standard specifications highlighted in grey are optional

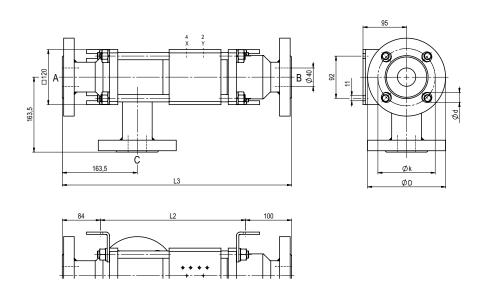


constructive length	L ₁	L2	Lз
standard	400	316	500
with 1/2 inductive limit switches	400	316	500
with force-feed lubrication nipple	400	316	500
with mechanical limit switches	-	-	-

flanges PN	DIN	øD	øk	ød
100	2637	170	125	22

type VFK 40 DR

function: NO open when not energized (A \blacktriangleright B)



pneumatic actuation (separately)



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





type VMK 50 DR VFK 50 DR

5-VMK 50 DR 5-VFK 50 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-100 bar orifice DN 50 mm connection thread/flange

function valve

normally closed (A ►B) symbol

valve normally open (A ►B)

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

body materials

design pressure balanced, with spring return, intersecting switch-over

2 steel, galvanized (5) without non-ferr. metals

(3)

4 steel, nickel plated 6 stainless steel

valve seat synthetic resin on metal

actuation

pila

seal materials NBR

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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.

	general specifications		options
ports	VMK	threads G 2	special threads
	VFK	flanges PN 64/100	special flanges
function		NC	NO
pressure range	bar	0-64/0-100	> 100 bar
		A ⇒ B max.100 / B ⇒ A max.16 / A ⇒	C max.100 / C A max.100
Kv value	m³/h	43,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 100 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	100	
switching time	ms	opening 150-3000 closing 150-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe
ambient temperature	°C	direct mounted pilot valve 50	rature 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			mounting brackets
weight	kg	VMK 19,5 VFK 31,4	
additional equipment			upon request

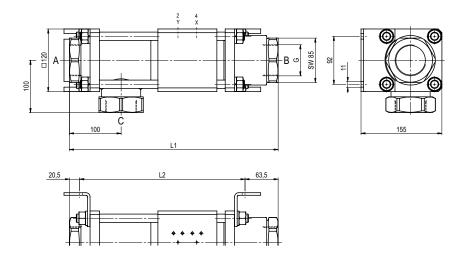
	electrical specifications		options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 50 Hz	special voltage upon request	
power consumption	DC	4,8 W	2,5 W	
	AC	pick up 11,0 VA holding 8,5 VA		
protection	IP 65 (P54)	acc. DIN 40 050		
energized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form B, 4	4 positions x 90° / wire diameter 6	8-8 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 Un	direct current 24 V	3,25 W
		power consumption	alternating current 230 V 50 Hz	2,90 W

•	•	•
bar	4-10	
cm³/stroke	65	
main valve s	speed variable by throttles on pilot valve	
preferably 5/	/2-way pilot valve	
co-ax / NAM	IUR	ISO 1
2/4	G 1/8	G 1/4
	cm³/stroke main valve s preferably 5 co-ax / NAM	cm³/stroke 65 main valve speed variable by throttles on pilot valve preferably 5/2-way pilot valve co-ax / NAMUR

options

pneumatic specifications

hydraulic specifications options 10-30 / 30-60 bar actuation pressure range control preferably 4/2-way control valve NPT 1/4 actuator ports G 1/4

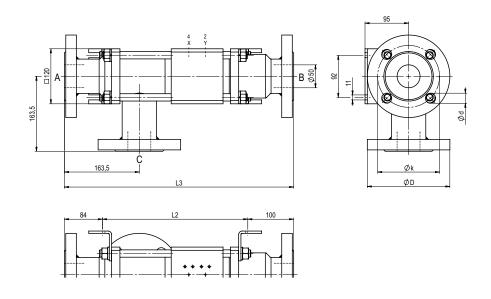


constructive length	L ₁	L2	Lз
standard	400	316	500
with 1/2 inductive limit switches	400	316	500
with force-feed lubrication nipple	400	316	500
with mechanical limit switches	-	-	-

flanges PN	DIN	øD	øk	ød
64	2636	180	135	22
100	2637	195	145	26

type VFK 50 DR

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



pneumatic actuation (separately)



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





type VSV-M 40 DR VSV-F 40 DR

5-VSV-M 40 DR 5-VSV-F 40 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-40 bar orifice DN 40 mm connection thread/flange

function valve

normally closed (A ►B) symbol

valve

normally open (A ►B)



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

design pressure balanced, with spring return, intersecting switch-over body materials

2 steel, galvanized (5) without non-ferr. metals

(3) 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 pressureinlet 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
- 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.

	general	specifications	options
ports	VSV-M	threads G 1 1/2 - G 2	special threads
	VSV-F	flanges PN 16/40	special flanges
function		NC	NO
pressure range	bar	0-16/0-40	
		$A \Rightarrow B \text{ max.40 / } B \Rightarrow A \text{ max.16 / } A \Rightarrow C$	c max.40 / C ⇒ A max.40
Kv value	m³/h	29,1	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 40 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	150	
switching time	ms	opening 100-3000 closing 100-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe
ambient temperature	°C	direct mounted pilot valve 50	rature 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			mounting brackets
weight	kg	VSV-M 8,9 VSV-F 11,6	
additional equipment			upon request

	electrica	l specifications	options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	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 Un	direct current 24 V	3,25 W
		power consumption	alternating current 230 V 50 Hz	2,90 W

	pneuma	tic specifications	options
re range	bar	4-10	

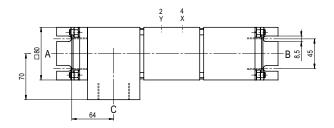
air consumption cycle speed control pilot valve interface actuator ports

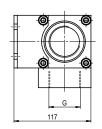
actuation pressure

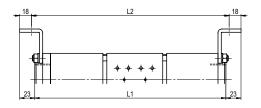
cm³/stroke 34 main valve speed variable by throttles on pilot valve preferably 5/2-way pilot valve co-ax / NAMUR G 1/8

hydraulic specifications options 10-30 / 30-60 actuation pressure range control preferably 4/2-way control valve NPT 1/4 actuator ports G 1/4

specifications not highlighted are standard specifications highlighted in grey are optional





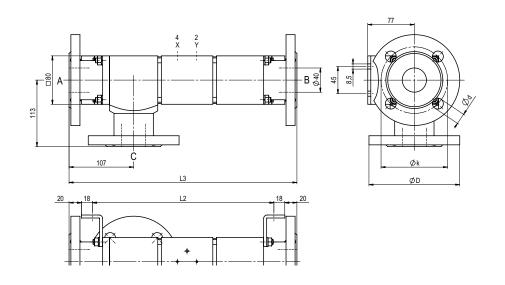


constructive length	L ₁	L2	L3
standard	291	301	377
with 1/2 inductive limit switches	338	348	424
with force-feed lubrication nipple	-	-	-
with mechanical limit switches	-	-	-

flanges PN	DIN	øD	øk	ød
16	2633	150	110	18
40	2635	150	110	18

type VSV-F 40 DR

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



pneumatic actuation (separately)



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





type VSV-M 50 DR VSV-F 50 DR

5-VSV-M 50 DR 5-VSV-F 50 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-40 bar orifice DN 50 mm connection thread/flange

function valve

normally closed (A ►B) symbol

valve

normally open (A ▶B)



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

design pressure balanced, with spring return, intersecting switch-over body materials 2 steel, galvanized

(3) 4 steel, nickel plated (5) without non-ferr. metals 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 pressureinlet 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
- 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.

	general	specifications	options
ports	VSV-M	threads G 2	special threads
	VSV-F	flanges PN 16/40	special flanges
function		NC	NO
pressure range	bar	0-16/0-40	
		A ⇒ B max.40 / B ⇒ A max.16 / A ⇒ C	max.40 / C ⇒ A max.40
Kv value	m³/h	43,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 40 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	100	
switching time	ms	opening 150-3000 closing 150-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe-
mbient temperature	°C	direct mounted pilot valve 50	rature 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			mounting brackets
weight	kg	VSV-M 19,2 VSV-F 23,6	
Iditional equipment	·-		upon request

	electrica	l specifications	options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	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 mr	n
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 Un	direct current 24 V 3,25 V	Ν
		power consumption	alternating current 230 V 50 Hz 2.90 V	W

pneumatic specifications

options

options

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

am

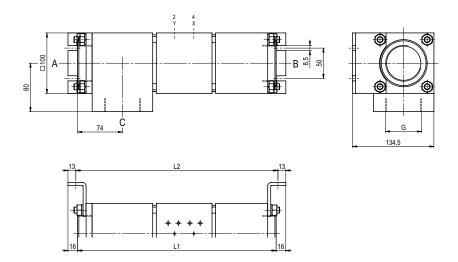
ado

bar	4-10	
cm³/stroke	65	
main valve s	speed variable by throttles on pilot valve	
preferably 5	/2-way pilot valve	
co-ax / NAM	IUR	ISO 1
2/4	G 1/8	G 1/4

hydraulic specifications

actuation pressure range control actuator ports

bar	10-30 / 30-60		
preferab	ly 4/2-way control valve		
X/Y	G 1/4	NPT 1/4	

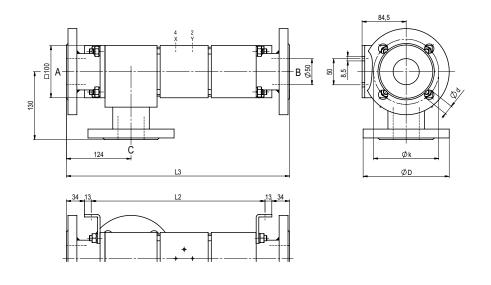


constructive length	L ₁	L2	L3
standard	328	334	428
with 1/2 inductive limit switches	354	360	454
with force-feed lubrication nipple	-	-	-
with mechanical limit switches	-	-	-

flanges PN	DIN	øD	øk	ød
16	2633	165	125	18
40	2635	165	125	18

type VSV-F 50 DR

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



pneumatic actuation (separately)



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





coaxial valve type VSV-F 65 DR

5-VSV-F 65 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-40 bar orifice DN 65 mm connection flange

> function valve normally closed (A ►B)

symbol

valve

normally open (A ►B)



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

body materials

(1) aluminium

pressure balanced, with spring return, intersecting switch-over 2 steel, galvanized

6 stainless steel

available

LR/GL/WAZ

pressure side max. 40 bar

vacuum side leak rate upon request

remote mounted pilot valve outside tempe-

rature range of media max.160°C

inductive/mechanical upon request

(3) 4 steel, nickel plated (5) without non-ferr. metals

valve seat synthetic resin on metal

flush ports

limit switches

manual override

leak ports

approvals mounting

seal materials NBR

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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.

	general	specifications	options
ports	VSV-F	flanges PN 16/40	
			special flanges
function	-	NC	NO
pressure range	bar	0-16/0-40	> 40 bar upon request
		A ⇒ B max.40 / B ⇒ A max.16 / A ⇒ C	max.40 / C
Kv value	m³/h	68,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 40 b
			vacuum side leak rate u
back pressure	P ₂ > P ₁	see pressure range	
media	-	gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media	-		version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	50	
switching time	ms	opening 200-3000 closing 200-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot va
ambient temperature	°C	direct mounted pilot valve 50	rature range of media m

via pilot valve

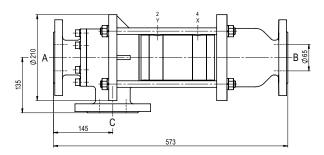
weight	kg	VSV-F 24,0	
additional equipment			upon request
	electrica	al specifications	options
nominal voltage	Un	DC 24V	special voltage upon request
	Un	AC 230V 50 Hz	special voltage upon request
power consumption	DC	4,8 W	2,5 W
	AC	pick up 11,0 VA holding 8,5 VA	
protection	IP 65 (P54)	acc. DIN 40 050	
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

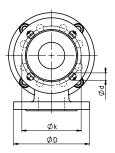
actuation pressure range	bar	4-10		
	pneuma	tic specifications	options	
		power consumption	alternating current 230 v 30 m	2 2,90 VV
		power consumption	alternating current 230 V 50 H	7 2 90 W
explosion proof	EEx m II T5	nominal voltage Un	direct current 24 V	3,25 W
	ambient	50°C		
max. temperature	media	60°C		
optional	M12X1	connector acc. DESINA	connector acc. VDMA	

air consumption cm³/stroke 50 cycle speed main valve speed variable by throttles on pilot valve control preferably 5/2-way pilot valve actuator ports G 3/8 G 1/4

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

specifications not highlighted are standard specifications highlighted in grey are optional



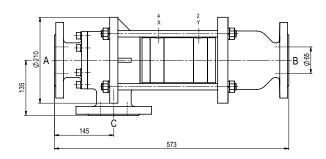


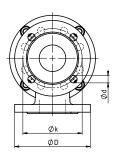
PN 16 - 4 bolt holes PN 40 - 8 bolt holes

flanges PN	DIN	øD	øk	ød
16	2633	185	145	18
40	2635	185	145	18

type VSV-F 65 DR

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





PN 16 - 4 bolt holes PN 40 - 8 bolt holes

pneumatic actuation (separately)



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





coaxial valve type VSV-F 80 DR

5-VSV-F 80 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-40 bar orifice DN 80 mm connection flange function

valve normally closed (A ►B)

symbol

valve normally open (A ►B)

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

pressure balanced, with spring return, intersecting switch-over (1) aluminium

2 steel, galvanized

body materials

(5) without non-ferr. metals

(3)

4 steel, nickel plated 6 stainless steel

valve seat synthetic resin on metal

seal materials NBR

am

additional equipment

PTFE, FPM, CR, EPDM

upon request

options

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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.

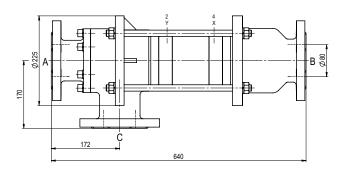
	general specifications		options
ports	VSV-F	flanges PN 16/40	
			special flanges
function		NC	NO
pressure range	bar	0-16/0-40	
		A ⇒ B max.40 / B ⇒ A max.16 / A ⇒ C	max.40 / C A max.40
Kv value	m³/h	90,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 40 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	50	
switching time	ms	opening 250-3000 closing 250-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe-
mbient temperature	°C	direct mounted pilot valve 50	rature 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 26,8	

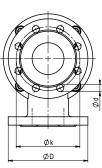
	electrical specifications		options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 50 Hz	special voltage upon request	
power consumption	DC	4,8 W	2,5 W	
	AC	pick up 11,0 VA holding 8,5 VA		
protection	IP 65 (P54)	acc. DIN 40 050		
energized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form B, 4	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 Un	direct current 24 V	3,25 W
		power consumption	alternating current 230 V 50 Hz 2	2,90 W

actuation pressure range	bar	4-10	
air consumption	cm³/stroke	75	
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

pneumatic specifications

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

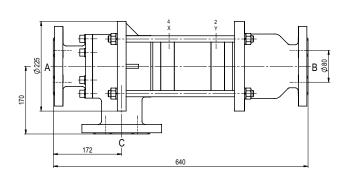


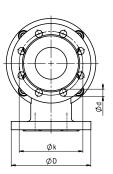


flanges PN	DIN	øD	øk	ød
16	2633	200	160	18
40	2635	200	160	18

type VSV-F 80 DR

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





pneumatic actuation (separately)



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





type VSV-F 100 DR

5-VSV-F 100 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-40 bar orifice DN 100 mm connection flange

> function valve normally closed (A ►B)

symbol

valve normally open (A ►B)

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

design pressure balanced, with spring return, intersecting switch-over

body materials

2 steel, galvanized (5) without non-ferr. metals

(3)

4 steel, nickel plated

6 stainless steel

ontions

am

valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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.

	general	specifications	options
ports	VSV-F	flanges PN 16/40	
			special flanges
function		NC	NO
pressure range	bar	0-16/0-40	
		$A \Rightarrow B \text{ max.40 / } B \Rightarrow A \text{ max.16 / } A \Rightarrow C$	max.40 / C ⇒ A max.40
Kv value	m³/h	140,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P1⇔ P2		pressure side max. 40 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	40	
switching time	ms	opening 300-3000 closing 300-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside to
nbient temperature	°C	direct mounted pilot valve 50	rature range of media max.160°C
flush ports			available

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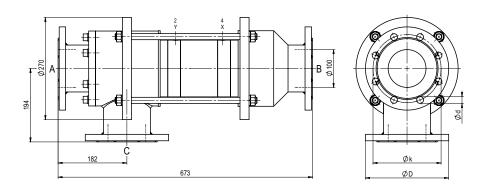
nnoumatic enecifications

		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	40	
switching time	ms	opening 300-3000 closing 300-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe
nbient temperature	°C	direct mounted pilot valve 50	rature 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 46,5	
ditional equipment			upon request

	electrical specifications		options
nominal voltage	Un	DC 24V	special voltage upon request
	Un	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 Un	direct current 24 V 3,25 W
		power consumption	alternating current 230 V 50 Hz 2,90 W

	priedille	ilic specifications	options		
ctuation pressure range	bar	4-10			
air consumption	cm³/stroke	135			
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		

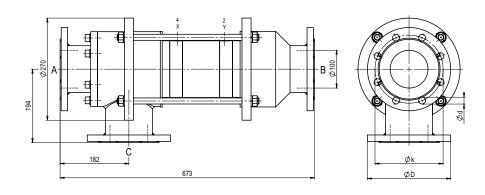
hydraulic specifications options 10-30 / 30-60 actuation pressure range by media upon request control preferably 4/2-way control valve NPT 1/4 actuator ports G 1/4



flanges PN	DIN	øD	øk	ød
16	2633	220	180	18
40	2635	235	190	22

type VSV-F 100 DR

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



pneumatic actuation (separately)



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





coaxial valve type VSV-F 125 DR

5-VSV-F 125 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-16 bar orifice DN 125 mm connection flange

function valve

normally closed (A ►B) symbol

valve

normally open (A ►B)



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

body materials

design pressure balanced, with spring return, intersecting switch-over

2 steel, galvanized

(5) without non-ferr. metals 6 stainless steel

pressure side max. 16 bar

vacuum side leak rate upon request

(3) 4 steel, nickel plated

valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureinlet 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
- 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.

	general	specifications	options
ports	VSV-F	flanges PN 16	
			special flanges
function		NC	NO
pressure range	bar	0-16	
		$A \Rightarrow B \text{ max.} 16 / B \Rightarrow A \text{ max.} 16 / A \Rightarrow C$	max.16 / C A max.16
Kv value	m³/h	198,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 16 b
			vacuum side leak rate u
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	

		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	30	
switching time	ms	opening 400-3000 closing 400-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe
ambient temperature	°C	direct mounted pilot valve 50	rature 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 68,5	
additional equipment			upon request

	electrical specifications		options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	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 Un	direct current 24 V	3,25 W
		power consumption	alternating current 230 V 50 Hz	2,90 W

	pneuma	tic specifications	options	
actuation pressure range	bar	4-10		
air consumption	cm³/stroke	275		
cycle speed	main valve s	speed variable by throttles on pilot valve		
control	preferably 5			
actuator ports	2/4	G 1/4	G 3/8	
	hydrauli	ic specifications	options	

upon request

NPT 1/4

10-30 / 30-60

preferably 4/2-way control valve

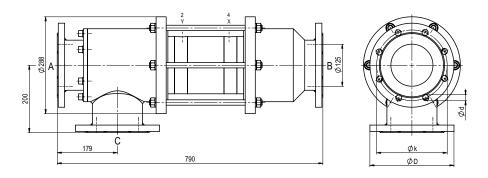
G 1/4

specifications not highlighted are standard specifications highlighted in grey are optional by media

actuator ports

control

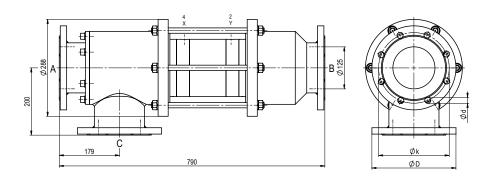
actuation pressure range



flanges PN	DIN	øD	øk	ød
16	2633	250	210	18

type VSV-F 125 DR

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



pneumatic actuation (separately)



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





type VSV-F 150 DR

5-VSV-F 150 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-16 bar orifice DN 150 mm connection flange

function valve

normally closed (A ►B)

symbol

valve

normally open (A ►B)

ontions

pressure side max. 16 bar

vacuum side leak rate upon request

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

design pressure balanced, with spring return, intersecting switch-over

2 steel, galvanized

body materials

(3) 4 steel, nickel plated (5) without non-ferr. metals 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 pressureinlet 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
- 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.

	general	specifications	options
ports	VSV-F	flanges PN 16	
			special flanges
function		NC	NO
pressure range	bar	0-16	
		$A \Rightarrow B \text{ max.} 16 / B \Rightarrow A \text{ max.} 16 / A \Rightarrow C$	max.16 / C A max.16
Kv value	m³/h	274,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 16 b
			vacuum side leak rate u
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media	-		version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		and procedure range	

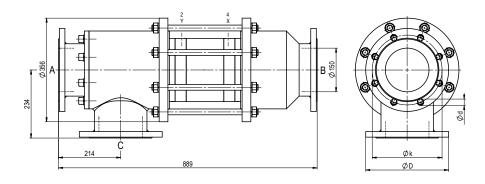
illeula		gaseous - liquiu - riigriiy viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	20	
switching time	ms	opening 600-3000 closing 600-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe
ambient temperature	°C	direct mounted pilot valve 50	rature 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 97,0	
additional equipment			upon request

	electrical specifications		options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	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 Un	direct current 24 V	3,25 W
		power consumption	alternating current 230 V 50 Hz	2,90 W

	pneuma	itic specifications	options	
ctuation pressure range	bar	4-10		
air consumption	cm³/stroke	550		
cycle speed	main valve			
control	preferably 5/2-way pilot valve			
actuator ports	2/4	G 1/4	G 3/8	

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

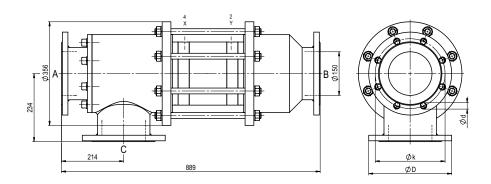
specifications not highlighted are standard specifications highlighted in grey are optional ac



flanges PN	DIN	øD	øk	ød
16	2633	285	240	22

type VSV-F 150 DR

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



pneumatic actuation (separately)



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

