

type FCF 80

5-FCF 80

valve type with pilot valve



2/2 way valve externally controlled pressure range PN 0-40 bar

> orifice DN 80 mm connection flange function valve

normally closed NC symbol

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

3 (5) 4 (6)

valve seat synthetic resin on metal

PTFE, FPM, PE seal materials NBR, PU

details needed for main valve

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

	general specifications		options
ports	FCF	flanges PN 16/40	
function		NC	NO
pressure range	bar	0-16/0-40	
Ky value	m³/h	133.0	
vacuum	leak rate	100,0	< 10 ⁻⁴ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 40 bar
procoure rucuum			vacuum side leak rate upon request
back pressure	P ₂ > P ₁		available (max. 16 bar)
media		emulsions - oils - neutral gases	other medias upon request
		_	
abrasive media			
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A⇔B	as marked	bi-directional upon request (max. 16 bar)
switching cycles	1/min	50	
switching time	ms	opening 350-3000 closing 350-3000	
media temperature	°C	direct mounted pilot valve 60	>60°C upon request
ambient temperature	°C	direct mounted pilot valve 50	>50°C upon request
flush ports			
leak ports			
limit switches			inductive
manual override		via pilot valve	
approvals			upon request
mounting			
weight	kg	FCF 14,5	
additional equipment		sensor / manometer connection G 1/4	

	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		
	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

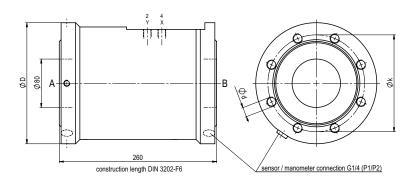
options

NPT 1/4

	pneuma	tic specifications	options	
actuation pressure range	bar	4-10	3-10 upon request	
air consumption	cm³/stroke	100		
cycle speed	main valve s	peed variable by throttles on pilot valve		
control	preferably 5/	preferably 5/2-way pilot valve		
pilot valve interface	NAMUR VD	I / VDE 3845	ISO 1 DIN 5599/1	
actuator ports	2/4	G 1/4	G 3/8	

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

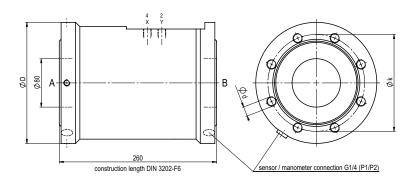
specifications not highlighted are standard specifications highlighted in grey are optional



flanges PN	DIN	øD	øk	ød
16	2633	200	160	M16
40	2635	200	160	M16

type FCF 80

function: **NO** open when not energized



pneumatic actuation (separately)



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





type FCF-K 80

5-FCF-K 80

valve type with pilot valve



2/2 way valve externally controlled

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

normally closed 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

body materials (1) aluminium 2

3 (5) 4 6

NC

valve seat synthetic resin on metal

seal materials NBR, PU

PTFE, FPM, PE

details needed for main valve

- orifice
- port
- function NC
- operating pressureflow 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.

	general	specifications	options
ports	FCF-K	flanges PN 16/40	
function		NC	
pressure range	bar	0-16/0-40	
Kv value	m³/h	122,0	
vacuum	leak rate		< 10 ⁻⁴ 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		available (max. 16 bar)
media		emulsions - oils - neutral gases	other medias upon request
abrasive media			
damping	opening		
damping	closing	by throttles on pilot valve	
flow direction	A ⇒ B	as marked	bi-directional upon request (max. 16 bar)
switching cycles	1/min	50	
switching time	ms	opening 350-3000 closing 350-3000	
media temperature	°C	direct mounted pilot valve 60	>60°C upon request
ambient temperature	°C	direct mounted pilot valve 50	>50°C upon request
flush ports		•	
leak ports			
limit switches			
manual override		via pilot valve	
approvals		•	upon request
mounting			
weight	kg	FCF-K 11,5	
dditional equipment		sensor / manometer connection G 1/4	

	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		
	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	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	3-10 upon request
air consumption	cm³/stroke	100	
cycle speed	main valve s	speed variable by throttles on pilot valve	
control	preferably 5	/2-way pilot valve	
pilot valve interface	NAMUR VE	OI / VDE 3845	ISO 1 DIN 5599/1
actuator ports	2/4	G 1/4	G 3/8

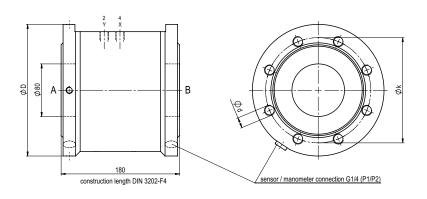
hydraulic specifications

actuation pressure range by media control actuator ports

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



flanges PN	DIN	øD	øk	ød
16	2633	200	160	M16
40	2635	200	160	M16

pneumatic actuation (separately)



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





type FCF 100

5-FCF 100

valve type with pilot valve



2/2 way valve externally controlled pressure range PN 0-40 bar

> orifice DN 100 mm connection flange

> > function valve normally closed

NC symbol

valve normally open



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

3 (5) 4 (6)

NO

valve seat synthetic resin on metal

symbol

PTFE, FPM, PE seal materials NBR, PU

details needed for main valve

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

	general	specifications	options
ports	FCF	flanges PN 16/40	
function		NC	NO
pressure range	bar	0-16/0-40	
Kv value	m³/h	215.0	
vacuum	leak rate	210,0	< 10 ⁻⁴ mbar•l•s ⁻¹
pressure-vacuum	P1⇔ P2		pressure side max. 40 bar
pressure vacaum	111712		vacuum side leak rate upon request
back pressure	P ₂ > P ₁		available (max. 16 bar)
media		emulsions - oils - neutral gases	other medias upon request
		omaloione one meatral gaces	carer mediae apen requeet
abrasive media			
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A ⇒ B	as marked	bi-directional upon request (max. 16 bar)
switching cycles	1/min	40	
switching time	ms	opening 450-3000 closing 300-3000	
media temperature	°C	direct mounted pilot valve 60	>60°C upon request
mbient temperature	°C	direct mounted pilot valve 50	>50°C upon request
flush ports			
leak ports			
limit switches			inductive upon request
manual override		via pilot valve	
approvals			upon request
mounting			
weight	kg	FCF 34,0	
Iditional equipment		sensor / manometer connection G 1/4	

	electrica	i 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	
	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	1 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

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	pricuma	illo specifications	options
ctuation pressure range	bar	4-10	3-10 upon request
air consumption	cm³/stroke	250	
cycle speed	main valve	speed variable by throttles on pilot valve	
control	preferably 5	/2-way pilot valve	
pilot valve interface	NAMUR VE	OI / VDE 3845	ISO 1 DIN 5599/1
actuator ports	2/4	G 1/4	G 3/8

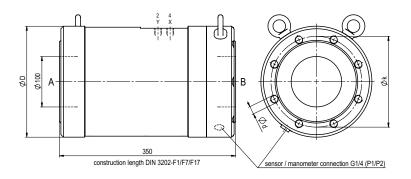
actuation pressure range by media control actuator ports

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hydraulic specifications options 30-60 preferably 4/2-way control valve NPT 1/4 G 1/4

ontions

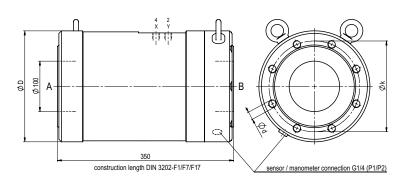
specifications not highlighted are standard specifications highlighted in grey are optional



flanges PN	DIN	øD	øk	ød
16	2633	220	180	M16
40	2635	235	190	M20

type FCF 100

function: **NO** open when not energized



pneumatic actuation (separately)



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





type FCF-K 100

5-FCF-K 100

valve type with pilot valve



2/2 way valve externally controlled pressure range PN 0-40 bar

> orifice DN 100 mm connection flange function valve

normally closed NC 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

body materials (1) aluminium 2

3 (5) (4) (6)

valve seat synthetic resin on metal

PTFE, FPM, PE seal materials NBR, PU

details needed for main valve

- orifice
- port
- function NC
- operating pressureflow 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.

	, .		,
	genera	l specifications	options
ports	FCF-K	flanges PN 16/40	
function		NC	
pressure range	bar	0-16/0-40	
Kv value	m³/h	193.0	
vacuum	leak rate	100,0	< 10 ⁻⁴ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 40 bar
pressure-vacuum	110012		vacuum side leak rate upon request
back pressure	P ₂ > P ₁		available (max. 16 bar)
media	12-11	emulsions - oils - neutral gases	other medias upon request
		· ·	
abrasive media			
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A⇔B	as marked	bi-directional upon request (max. 16 bar)
switching cycles	1/min	40	
switching time	ms	opening 450-3000 closing 300-3000	
media temperature	°C	direct mounted pilot valve 60	>60°C upon request
mbient temperature	°C	direct mounted pilot valve 50	>50°C upon request
flush ports			
leak ports			
limit switches			
manual override		via pilot valve	
approvals			upon request
mounting			
weight	kg	FCF-K 25,0	
dditional equipment		sensor / manometer connection G 1/4	

	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		
	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

	pricuma	de apecinications	options
ctuation pressure range	bar	4-10	3-10 upon request
air consumption	cm³/stroke	250	
cycle speed	main valve s	speed variable by throttles on pilot valve	
control	preferably 5	2-way pilot valve	
pilot valve interface	NAMUR VE	0I / VDE 3845	ISO 1 DIN 5599/1
actuator ports	2/4	G 1/4	G 3/8

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actuation pressure range by media control actuator ports

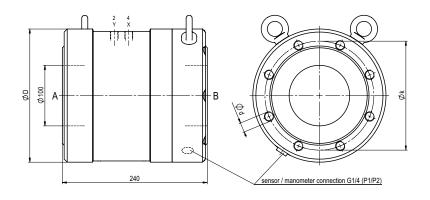
ac

an

hydraulic specifications options 30-60 preferably 4/2-way control valve NPT 1/4 G 1/4

ontions

specifications not highlighted are standard specifications highlighted in grey are optional



flanges PN	DIN	øD	øk	ød
16	2633	220	180	M16
40	2635	235	190	M20

pneumatic actuation (separately)



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





type FCF 125

5-FCF 125

valve type with pilot valve



2/2 way valve externally controlled pressure range PN 0-40 bar

> orifice DN 125 mm connection flange function valve

normally closed NC symbol

valve normally open

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

3 (5) 4 (6)

NO

valve seat synthetic resin on metal

symbol

PTFE, FPM, PE seal materials NBR, PU

details needed for main valve

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

	general	specifications	options
ports	FCF	flanges PN 16/40	
function		NC	NO
pressure range	bar	0-16/0-40	
Kv value	m³/h	227	
vacuum	leak rate		< 10 ⁻⁴ 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		available (max. 16 bar)
media		emulsions - oils - neutral gases	other medias upon request
abrasive media			
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A⇔B	as marked	bi-directional upon request (max. 16 bar)
switching cycles	1/min	30	
switching time	ms	opening 700-3000 closing 450-3000	
media temperature	°C	direct mounted pilot valve 60	>60°C upon request
ambient temperature	°C	direct mounted pilot valve 50	>50°C upon request
flush ports			
leak ports	-		
limit switches	-		inductive upon request
manual override	-	via pilot valve	
approvals	-		upon request
mounting			
weight	kg	FCF 52,0	
additional equipment		sensor / manometer connection G 1/4	

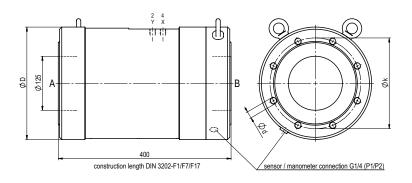
	electrica	I specifications	options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 50 Hz	special voltage upon request	
power consumption	DC	4,8 W		
	AC	pick up 11,0 VA holding 8,5 VA		
protection	IP 65 (P54)	acc. DIN 40 050		
energized duty rating	ED	100%		
connection		plug acc. 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 3,2	25 W
		power consumption	alternating current 230 V 50 Hz 2,9	90 W

	pneuma	tic specifications	options
ctuation pressure range	bar	4-10	3-10 upon request
air consumption	cm³/stroke	480	
cycle speed	main valve s	speed variable by throttles on pilot valve	
control	preferably 5	/2-way pilot valve	
pilot valve interface	NAMUR VE	0I / VDE 3845	ISO 1 DIN 5599/1
actuator ports	2/4	G 1/4	G 3/8
actuator ports	2/4	G 1/4	G 3/8

actuation pressure range by media control actuator ports

hydraulic specifications options 30-60 preferably 4/2-way control valve NPT 1/4 G 1/4

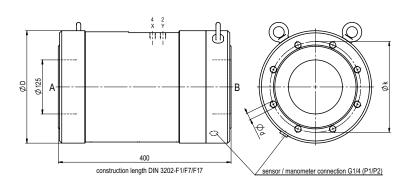
specifications not highlighted are standard specifications highlighted in grey are optional



flanges PN	DIN	øD	øk	ød
16	2633	260	210	M16
40	2635	280	220	M24

type FCF 125

function: **NO** open when not energized



pneumatic actuation (separately)



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





type FCF-K 125

5-FCF-K 125

valve type with pilot valve



2/2 way valve externally controlled pressure range PN 0-40 bar

orifice DN 125 mm connection flange function valve

normally closed NC 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

body materials (1) aluminium

3 (5) (4) (6)

valve seat synthetic resin on metal

seal materials NBR. PU PTFF, FPM, PF

details needed for main valve

- orifice
- port
- function NC
- operating pressureflow 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.

Seai illateriais	NDR, FC	,	FIFE, FFIVI, FE
	general	specifications	options
ports	FCF-K	flanges PN 16/40	
function		NC	
pressure range	bar	0-16/0-40	
p. coca. c . ago	541	0 10.0 10	
Kv value	m³/h	221	
vacuum	leak rate		< 10 ⁻⁴ 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		available (max. 16 bar)
media		emulsions - oils - neutral gases	other medias upon request
abrasive media			
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A⇔B	as marked	bi-directional upon request (max. 16 bar)
switching cycles	1/min	30	
switching time	ms	opening 700-3000 closing 450-3000	
media temperature	°C	direct mounted pilot valve 60	>60°C upon request
ambient temperature	°C	direct mounted pilot valve 50	>50°C upon request
flush ports			
leak ports limit switches			
manual override		via pilot valve	
approvals		via pilot vaive	upon request
mounting			upon request
weight	kg	FCF-K 42.0	
additional equipment	a	sensor / manometer connection G 1/4	

	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		
	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

options

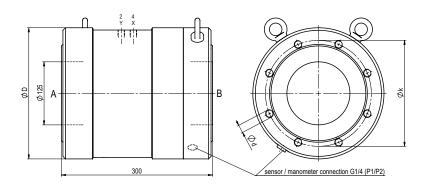
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ctuation pressure range	bar	4-10	3-10 upon request
air consumption	cm³/stroke	480	
cycle speed	main valve s	speed variable by throttles on pilot valve	
control	preferably 5	2-way pilot valve	
pilot valve interface	NAMUR VE	0I / VDE 3845	ISO 1 DIN 5599/1
actuator ports	2/4	G 1/4	G 3/8

pneumatic specifications

actuation pressure range actuator ports

hydra	ulic specifications	options	
bar	30-60		
preferab	ly 4/2-way control valve		
X/Y	G 1/4	NPT 1/4	

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



flanges PN	DIN	øD	øk	ød
16	2633	260	210	M16
40	2635	280	220	M24

pneumatic actuation (separately)



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





type CFM 08

3-CFM 08

valve type with pilot valve



2/2 way valve externally controlled pressure range PN 0-40 bar

> valve normally open

symbol

orifice DN 8 mm connection thread function valve

normally closed symbol NC

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) brass

3 (5) 4 (6)

valve seat synthetic resin on metal

PU, PTFE seal materials NBR, FPM, PE

tulaal amaalfiaatiama

pneumatic specifications

details needed for main valve

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

	general specifications		options
ports	CFM	threads G 3/8	
function		NC	NO
pressure range	bar	0-40	
Kv value	m³/h	1,6	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P1⇔ P2		
back pressure	P ₂ > P ₁		available (max. 16 bar)
media		emulsions - oils - neutral gases	other medias upon request
abrasive media			
damping	opening		
	closing		
flow direction	A ⇒ B	as marked	
switching cycles	1/min	400	
switching time	ms	opening 70 closing 80	
media temperature	°C	direct mounted pilot valve 60	>60°C upon request
ambient temperature	°C	direct mounted pilot valve 50	>50°C upon request
flush ports			
leak ports			
limit switches			reed, temperature range max 70°C
manual override		via pilot valve	
approvals			
mounting			mounting brackets
weight	kg	0,3	

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	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 40-60 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		
nergized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form	B, 4 positions x 90° / wire diameter	6-8 mm
dditional 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 air consumption cycle speed control pilot valve interface actuator ports

additional equipment

bar	4-10	3-10 upon request
cm³/stroke	1,2	
	by 3/2-way pilot valve	
co-ax		CNOMO upon request
2/4	G 1/8	

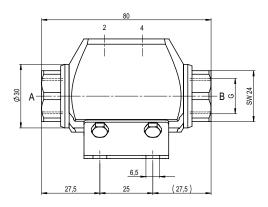
options

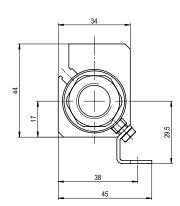
actuation pressure range control actuator ports hydraulic specifications options

specifications not highlighted are standard specifications highlighted in grey are optional

type CFM 08

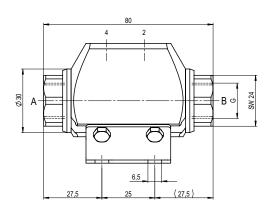
function: function: **NC** closed when not energized

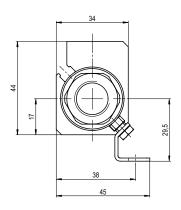




type CFM 08

function: **NO** open when not energized





pneumatic actuation (5/2 separately)



3/2-way-pilot valve flow rate 60 l/min pressure range 3-10 bar





type MCF 08

5-MCF 08

valve type with pilot valve



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

> orifice DN 8 mm connection thread function valve

normally closed NC

symbol valve normally open

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) brass 3

(5) 6

NO

valve seat synthetic resin on metal seal materials NBR, FPM, PTFE

4

symbol

details needed for main valve

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

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	MCF	threads G 3/8		
function		NC	NO	
1411041011	har	0-100	NO	
pressure range	bar	0-100		
Kv value	m³/h	1,6		
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		available (max. 16 bar)	
media		emulsions - oils - neutral gases	other medias upon request	
abrasive media				
damping	opening			
	closing	by throttles on pilot valve		
flow direction	A⇔B	as marked		
switching cycles	1/min	600		
switching time	ms	opening 30-3000 closing 30-3000		
media temperature	°C	direct mounted pilot valve 60	>60°C upon request	
ambient temperature	°C	direct mounted pilot valve 50	>50°C upon request	
flush ports				
leak ports	-			
limit switches	-		reed, temperature range max 70°C	
manual override	-	via pilot valve		
approvals	-			
mounting			mounting brackets	
weight	kg	1,3		
additional equipment				

	electrical specifications		options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 40-60 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		
nergized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form B, 4	4 positions x 90° / wire diameter 6-8 m	nm
dditional 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	3-10 upon request
air consumption	cm³/stroke	4,5	
cycle speed	main valve s	speed variable by throttles on pilot valve	
control	preferably 5	/2-way pilot valve	
pilot valve interface	co-ax		NAMUR VDI / VDE 3845
actuator ports	2/4	G 1/8	

actuation pressure range control actuator ports

hydraulic specifications

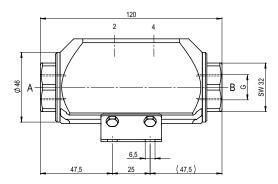
options

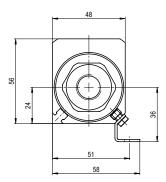
ontiono

specifications not highlighted are standard specifications highlighted in grey are optional

type MCF 08

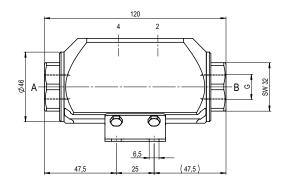
function: function: **NC** closed when not energized

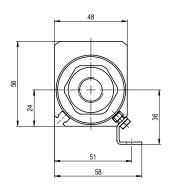




type MCF 08

function: **NO** open when not energized





pneumatic actuation (separately)



type VMK 10

5-VMK 10

valve type with pilot valve



2/2 way valve externally controlled pressure range PN 0-64 bar

> orifice DN 10 mm connection thread function valve

normally closed NC symbol

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) brass

(5) 3 brass, nickel plated (4) 6 stainless steel

valve seat synthetic resin on metal

an

ad

ac

seal materials NBR

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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/maxhydraulic 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.

	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	> 64 bar upon request
Kv value	m³/h	2,5	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 64 bar vacuum side leak rate <10-6 mbar•l•s-1
back pressure	P ₂ > P ₁		available (max. 16 bar)
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			upon request
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A ⇒ B	as marked	bi-directional upon request
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-
mbient 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			mounting brackets
weight	kg	VMK 1,7	
dditional equipment		<u> </u>	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

	4.40			
ctuation pressure range	par 4-10			
air consumption	cm³/stroke 7			
cycle speed	main valve speed variable by throttles on pilot valve			
control	preferably 5/2-way pilot valve			
pilot valve interface	standard / NAMUR			
actuator ports	2/4 G 1/8			

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

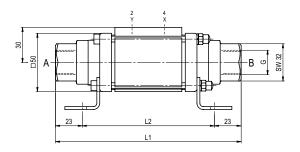
pneumatic specifications

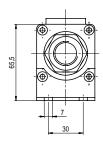
actuation pressure range control

4-10 preferably 4/2-way control valve G 1/8

options

options

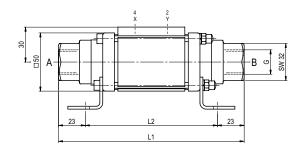


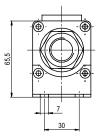


constructive length	L ₁	L2
standard	159,5	113,5
with 1/2 inductive limit switches	179,5	133,5

type VMK 10

function: **NO** open when not energized





pneumatic actuation (separately)





data sheet

coaxial valve

5-VMK 15 5-VFK 15

valve type with pilot valve

type VMK 15 **VFK 15**



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

orifice DN 15 mm connection thread/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) 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

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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	l 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	> 100 bar upon request
Kv value	m³/h	5,7	
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		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	200	
switching time	ms	opening 50-3000 closing 50-3000	
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	VMK 3,4 VFK 5,0	
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 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

pneur	natic specifications	options

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

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

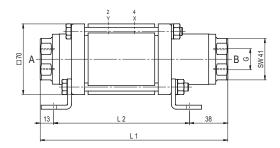
hydraulic specifications

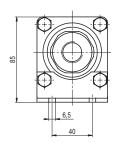
actuation pressure range control actuator ports

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

options

specifications not highlighted are standard specifications highlighted in grey are optional



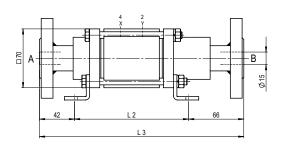


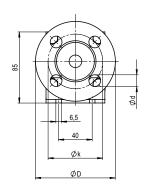
constructive length	L ₁	L2	Lз
standard	186	135	243
with 1/2 inductive limit switches	212	161	269
with force-feed lubrication nipple	219	168	276
with mechanical limit switches	212	161	269

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

type VFK 15

function: **NO** open when not energized





pneumatic actuation (separately)



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.



5-VMK 20 5-VFK 20

valve type with pilot valve

type VMK 20 **VFK 20**



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

orifice DN 20 mm connection thread/flange function valve

normally closed

NC symbol

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) 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

an

seal materials NBR

PTFE, FPM, CR, EPDM

details needed for main valve

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

	genera	l specific	ations	options
ports	VMK	threads G	3/4 - G 1 1/4	special threads
	VFK	flanges PN	I 16/40/100	special flanges
function		NC		NO
pressure range	bar	0-16/0-40/	0-64/0-100	> 100 bar upon request
		<u></u>		
Kv value	m³/h	8,8		
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			available (max. 16 bar)
media		gaseous -	liquid - highly viscoι	JS -
		gelatinous	- pasty - contamina	ted
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	200		
switching time	ms	opening 50	0-3000 closing 50-3	3000
media temperature	°C	direct mou	nted pilot valve 60	remote mounted pilot valve outside tempe-
mbient temperature	°C	direct mou	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 va	lve	
approvals				LR/GL/WAZ
mounting				mounting brackets
weight	kg	VMK 4,7	VFK 6,7	
dditional equipment				upon request

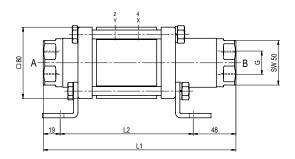
	electrica	l specifications	options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 50 Hz	special voltage upon request	
power consumption	DC	4,8 W	2,5 W	
	AC	pick up 11,0 VA holding 8,5 VA		
protection	IP 65 (P54)	acc. DIN 40 050		
nergized duty rating	ED	100%		
connection		plug acc.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

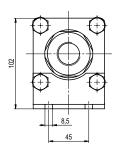
	pneuma	tic specifications	options
actuation pressure range	bar	4-10	
air consumption	cm³/stroke	11	
cycle speed	main valve	speed variable by throttles on pilot valve	
control	preferably 5	/2-way pilot valve	
pilot valve interface	co-ax / NAM	IUR	ISO 1
actuator ports	2/4	G 1/8	G 1/4

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.

specifications not highlighted are standard specifications highlighted in grey are optional



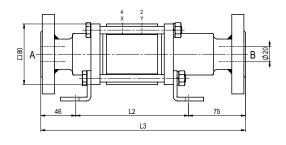


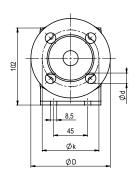
constructive length	L ₁	L2	Lз
standard	216	149	270
with 1/2 inductive limit switches	235	168	289
with force-feed lubrication nipple	254	187	308
with mechanical limit switches	237	170	291

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

type VFK 20

function: **NO** open when not energized





pneumatic actuation (separately)



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.



5-VMK 25 5-VFK 25

valve type with pilot valve

type VMK 25 **VFK 25**



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

orifice DN 25 mm connection thread/flange function valve

normally closed

NC symbol

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) brass 2 steel, galvanized

3 brass, nickel plated 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 pressureflow 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	> 100 bar upon request
			· · ·
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		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	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 6,7 VFK 9,0	
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		
nergized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form B, 4	4 positions x 90° / wire diameter 6	-8 mm
dditional 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	18	
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	cm³/stroke 18 main valve speed variable by throttles on pilot valve preferably 5/2-way pilot valve co-ax / NAMUR

pneumatic specifications

hydraulic specifications

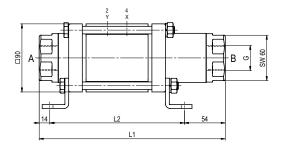
actuation pressure range control actuator ports

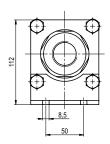
,			
bar	10-30 / 30-60		
preferab	oly 4/2-way control valve		
X/Y	G 1/4	NPT 1/4	

options

options

specifications not highlighted are standard specifications highlighted in grey are optional



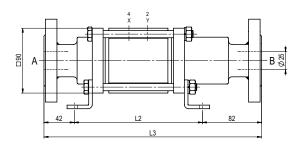


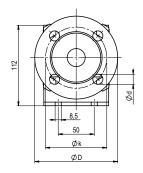
constructive length	L ₁	L2	Lз
standard	246	178	302
with 1/2 inductive limit switches	260	192	316
with force-feed lubrication nipple	276	208	332
with mechanical limit switches	270	202	326

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

type VFK 25

function: **NO** open when not energized





pneumatic actuation (separately)



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





5-VMK 32 5-VFK 32

valve type with pilot valve

type VMK 32 **VFK 32**



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

orifice DN 32 mm connection thread/flange function valve

normally closed

NC symbol

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) 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

an

seal materials NBR PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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/maxhydraulic control valve function

\wedge
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	specification	ıs	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	
Kv value	m³/h	20,0		
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			available (max. 16 bar)
media		gaseous - liquid -	highly viscous -	
		gelatinous - pasty	 contaminated 	
abrasive media				version available
damping	opening			
	closing	by throttles on pilo	ot valve	
flow direction	A ⇒ B	as marked		bi-directional upon request
switching cycles	1/min	150		
switching time	ms		closing 100-3000	
media temperature	°C	direct mounted pil		remote mounted pilot valve outside tempe-
mbient temperature	°C	direct mounted pil	ot 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 7,8 VFK	11,6	
dditional 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	3-8 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

		· · · • · · · · · · · · · · · · · · · ·	
ctuation pressure range	bar	4-10	
air consumption	cm³/stroke	23	
cycle speed	main valve	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
actuator ports	2/4	G 1/8	G 1/4

pneumatic specifications

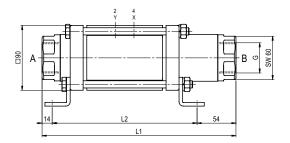
specifications not highlighted are standard specifications highlighted in grey are optional hydraulic specifications options 10-30 / 30-60 bar preferably 4/2-way control valve NPT 1/4 G 1/4

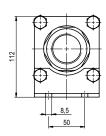
options

control

actuator ports

actuation pressure range



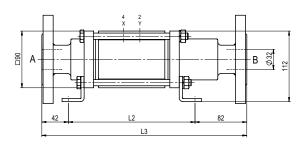


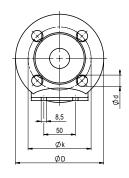
constructive length	L ₁	L2	Lз
standard	269	201	325
with 1/2 inductive limit switches	276	208	332
with force-feed lubrication nipple	306	238	362
with mechanical limit switches	304	236	360

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

type VFK 32

function: **NO** open when not energized





pneumatic actuation (separately)



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





5-VMK 40 5-VFK 40

valve type with pilot valve

type VMK 40 **VFK 40**



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

> valve normally open symbol

orifice DN 40 mm connection thread/flange function valve

normally closed

NC 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

body materials 2 steel, galvanized (1)

> (3) (5) without non-ferr. metals 4 steel, nickel plated 6 stainless steel

valve seat synthetic resin on metal

PTFE, FPM, CR, EPDM seal materials NBR

NO

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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/maxhydraulic 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
	0.0		
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	$P_2 > P_1$		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	150	
switching time	ms	opening 100-3000 closing 100-3000	
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	VMK 11,3 VFK 13,6	
dditional 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		Π
energized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form B, 4	4 positions x 90° / wire diameter 6-8 mm	Ī
additional equipment		illuminated plug with varistor		
optional	M12x1	connector acc. DESINA	connector acc. VDMA	
max. temperature	media	60°C		
	ambient	50°C		Ī
explosion proof	EEx m II T5	nominal voltage Un	direct current 24 V 3,25 W	Ī
		power consumption	alternating current 230 V 50 Hz 2,90 W	_

pneumatic sp	pecifications
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options

options

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

an

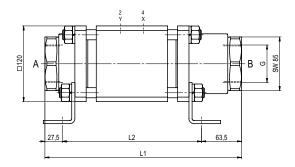
bar	4-10	
cm³/stroke	65	
main valve s	speed variable by throttles on pilot valve	
preferably 5	/2-way pilot valve	
co-ax / NAM	IUR	ISO 1
2/4	G 1/8	G 1/4

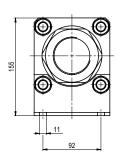
hydraulic specifications

actuation pressure range control actuator ports

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

specifications not highlighted are standard specifications highlighted in grey are optional



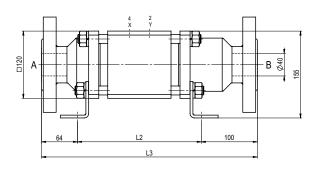


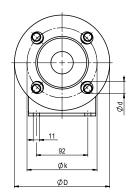
constructive length	L ₁	L2	Lз
standard	312	221	385
with 1/2 inductive limit switches	312	221	385
with force-feed lubrication nipple	312	221	385
with mechanical limit switches	-	-	-

flanges PN	DIN	øD	øk	ød
100	2637	170	125	22

type VFK 40

function: **NO** open when not energized





pneumatic actuation (separately)



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





5-VMK 50 5-VFK 50

valve type with pilot valve

type VMK 50 **VFK 50**



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

valve

orifice DN 50 mm connection thread/flange function valve

normally closed

NC symbol

normally open NO 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

body materials (1) 2 steel, galvanized

⑤ without non-ferr. metals (3) 6 stainless steel 4 steel, nickel plated

valve seat synthetic resin on metal

PTFE, FPM, CR, EPDM seal materials NBR

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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/maxhydraulic 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.

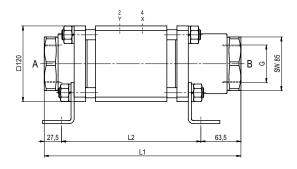
	general	specifications	options
ports	VMK	threads G 2	special threads
	VFK	flanges PN 64/100	special flanges
function		NC	NO
pressure range	bar	0-64/0-100	> 100 bar
Kv value	m³/h	43,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 100 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁		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	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 12,3 VFK 18,7	
additional equipment			upon request

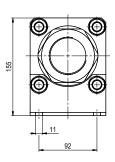
	electrica	l specifications	options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 50 Hz	special voltage upon request	
power consumption	DC	4,8 W	2,5 W	
	AC	pick up 11,0 VA holding 8,5 VA		
protection	IP 65 (P54)	acc. DIN 40 050		
nergized duty rating	ED	100%		
connection		plug acc.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

	pneumatic specifications		options
actuation pressure range	bar	4-10	
air consumption	cm³/stroke	65	
cycle speed	main valve s	peed variable by throttles on pilot valve	
control	preferably 5	2-way pilot valve	
pilot valve interface	co-ax / NAMUR		ISO 1
actuator ports	2/4	G 1/8	G 1/4

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



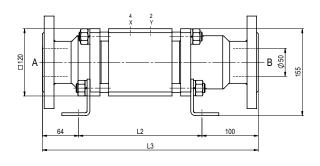


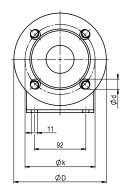
constructive length	L ₁	L2	Lз
standard	312	221	385
with 1/2 inductive limit switches	312	221	385
with force-feed lubrication nipple	312	221	385
with mechanical limit switches	-	-	-

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

type VFK 50

function: **NO** open when not energized





pneumatic actuation (separately)



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





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

valve type with pilot valve

type VSV-M 40 **VSV-F 40**



2/2 way valve externally controlled pressure range PN 0-40 bar

orifice DN 40 mm connection thread/flange function valve

normally closed NC symbol

valve

normally open 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

2 steel, galvanized (1)

NO

(3) 4 steel, nickel plated

valve seat synthetic resin on metal

seal materials NBR

body materials

er

ac

PTFE, FPM, CR, EPDM

6 stainless steel

(5) without non-ferr. metals

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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	
Kv value	m³/h	31,0	
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		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	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 7,2 VSV-F 11,4	
additional equipment			upon request

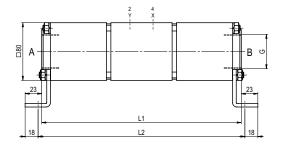
	electrical specifications		options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 50 Hz	special voltage upon request	
power consumption	DC	4,8 W	2,5 W	
	AC	pick up 11,0 VA holding 8,5 VA		
protection	IP 65 (P54)	acc. DIN 40 050		
nergized duty rating	ED	100%		
connection		plug acc.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

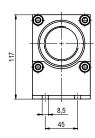
	pneuma	tic specifications	options
ctuation pressure range	bar	4-10	
air consumption	cm³/stroke	44	
cycle speed	main valve	speed variable by throttles on pilot valve	
control	preferably 5	/2-way pilot valve	
pilot valve interface	co-ax / NAM	IUR	ISO 1
actuator ports	2/4	G 1/8	G 1/4

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

bar

specifications not highlighted are standard specifications highlighted in grey are optional



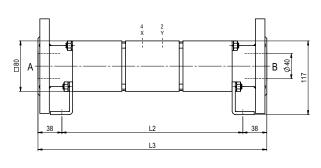


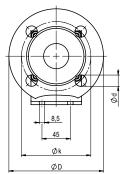
constructive length	L ₁	L2	Lз
standard	277	287	363
with 1/2 inductive limit switches	331	341	417
with force-feed lubrication nipple	297	307	383
with mechanical limit switches	304	314	390

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

type VSV-F 40

function: **NO** open when not energized





pneumatic actuation (separately)



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





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

valve type with pilot valve

type VSV-M 50 **VSV-F 50**



2/2 way valve externally controlled

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

normally closed NC symbol

normally open

symbol

valve

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

(3) 4 steel, nickel plated 6 stainless steel

NO

valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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/maxhydraulic control valve function

\wedge
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	
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		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	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	VSV-M 11,9 VSV-F 18,2	
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		
nergized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form B,	4 positions x 90° / wire diameter	6-8 mm
dditional 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	55		
cycle speed	main valve s	speed variable by throttles on pilot valve		
control	preferably 5			
pilot valve interface	co-ax / NAM	UR	ISO 1	
actuator ports	2/4	G 1/8	G 1/4	

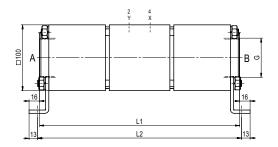
hydraulic specifications

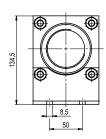
actuation pressure range control actuator ports

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

options

specifications not highlighted are standard specifications highlighted in grey are optional



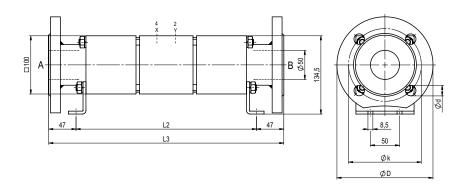


constructive length	L ₁	L2	Lз
standard	304	310	404
with 1/2 inductive limit switches	330	336	430
with force-feed lubrication nipple	322	328	422
with mechanical limit switches	344	350	444

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

type VSV-F 50

function: **NO** open when not energized



pneumatic actuation (separately)



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





type VSV-F 65

5-VSV-F 65

valve type with pilot valve



2/2 way valve externally controlled

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

normally closed

NC symbol

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 (5) without non-ferr. metals

4 steel, nickel plated 6 stainless steel

valve seat synthetic resin on metal

(3)

seal materials NBR

an

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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/maxhydraulic 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.

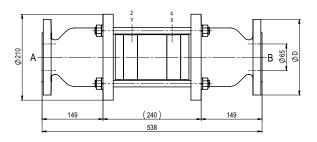
	general specifications		options
ports	VSV-F	flanges PN 16/40	
			special flanges
function	-	NC	NO
pressure range	bar	0-16/0-40	
W	m³/h	00.0	
Kv value		68,0	1406
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 40 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁		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	50	
switching time	ms	opening 200-3000 closing 200-3000	
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 20,0	<u></u>
dditional equipment	-		upon request
		·	<u> </u>

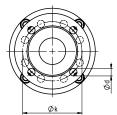
	electrical specifications		options		
nominal voltage	Un	DC 24V	special voltage upon request		
	Un	AC 230V 50 Hz	special voltage upon request		
power consumption	DC	4,8 W	2,5 W		
	AC	pick up 11,0 VA holding 8,5 VA			
protection	IP 65 (P54)	acc. DIN 40 050			
nergized duty rating	ED	100%			
connection		plug acc. DIN EN 175301-803 form B, 4 positions x 90° / wire diameter 6-8 mm			
dditional 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				
actuation pressure range	bar	4-10					
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	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



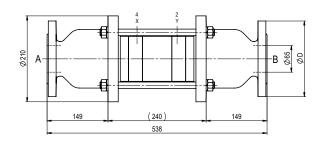


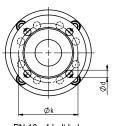
PN 16 - 4 bolt holes PN 40 - 8 bolt holes

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

type VSV-F 65

function: **NO** open when not energized





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





type VSV-F 80

5-VSV-F 80

valve type with pilot valve



2/2 way valve externally controlled

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

normally closed

NC symbol

valve normally open symbol NO

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

pressure balanced, with spring return

body materials (1) aluminium

2 steel, galvanized

(5) without non-ferr. metals 4 steel, nickel plated 6 stainless steel

valve seat synthetic resin on metal

seal materials NBR

(3)

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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	
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		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	50	
switching time	ms	opening 200-3000 closing 200-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside temper
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 27,0	
dditional equipment			upon request

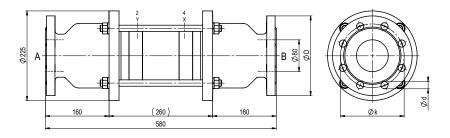
	electrical specifications		options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 50 Hz	special voltage upon request	
power consumption	DC	4,8 W	2,5 W	
	AC	pick up 11,0 VA holding 8,5 VA		
protection	IP 65 (P54)	acc. DIN 40 050		
energized duty rating	ED	100%		
connection		plug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

	pilouilla	are openinounone	optiono	
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	

nnoumatic enecifications

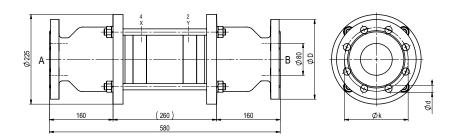
ontions

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

function: **NO** open when not energized



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

5-VSV-F 100

valve type with pilot valve



2/2 way valve externally controlled

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

function

valve normally closed

NC symbol

valve normally open

symbol NO

pressure balanced, with spring return

body materials (iii) 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 PTFE, FPM, CR, EPDM

details needed for main valve

Above stated body materials refer to

the valve port connections that get in con-

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

tact with the media only!

- 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 specifications		options
ports	VSV-F	flanges PN 16/40	
			special flanges
function		NC	NO
pressure range	bar	0-16/0-40	
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		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	40	
switching time	ms	opening 300-3000 closing 300-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside t
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 38,0	
additional equipment			upon request

table for the intended application. actuation pressure range air consumption cycle speed control

pneumatic specifications

electrical specifications

DC 24V

4.8 W

100%

60°C 50°C

IP 65 (P54)

ED

M12x1

media

ambient

EEx m II T5

AC 230V 50 Hz

acc. DIN 40 050

pick up 11,0 VA holding 8,5 VA

illuminated plug with varistor

connector acc. DESINA

nominal voltage Un

power consumption

options

135 cm³/stroke main valve speed variable by throttles on pilot valve preferably 5/2-way pilot valve G 1/4

hydraulic specifications

actuation pressure range by media control actuator ports

nominal voltage

power consumption

energized duty rating

additional equipment

max. temperature

explosion proof

actuator ports

connection

optional

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

options

plug acc. DIN EN 175301-803 form B, 4 positions x 90° / wire diameter 6-8 mm

G 3/8

options

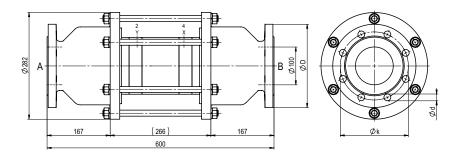
special voltage upon request

connector acc. VDMA

direct current 24 V

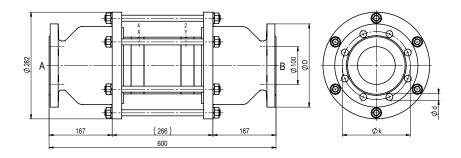
alternating current 230 V 50 Hz 2,90 W

3,25 W



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

function: **NO** open when not energized



pneumatic actuation (separately)



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





type VSV-F 125

5-VSV-F 125

valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-40 bar orifice DN 125 mm connection flange

> function valve normally closed

NC symbol

valve normally open

NO

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

pressure balanced, with spring return

body materials (1) aluminium 2 steel, galvanized (5) without non-ferr. metals 6 stainless steel

upon request

4 steel, nickel plated

valve seat synthetic resin on metal

seal materials NBR

additional equipment

(3)

symbol

PTFE, FPM, CR, EPDM

details needed for main valve

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

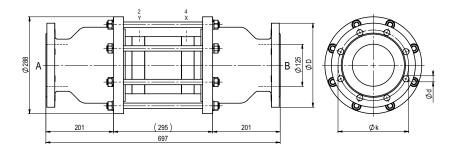
	general	specifications	options
ports	VSV-F	flanges PN 16/40	
			special flang
function		NC	NO
pressure range	bar	0-16/0-40	
Kv value	m³/h	198,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•
pressure-vacuum	P₁⇔ P₂		pressure sid

			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	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 51,0	

	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	3,25 W
		power consumption	alternating current 230 V 50 Hz 2	2,90 W

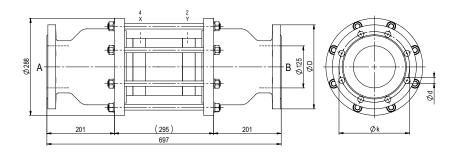
	pneuma	tic specifications	options	
actuation pressure range	bar	4-10		
air consumption	cm³/stroke	275		
cycle speed	main valve s	speed variable by throttles on pilot valve)	
control	preferably 5	/2-way pilot valve		
actuator ports	2/4	G 1/4	G 3/8	
	hydrauli	c specifications	options	

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	250	210	18
40	2635	270	220	26

function: **NO** open when not energized



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

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

NC symbol

valve

NO

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

pressure balanced, with spring return

body materials (1) aluminium

(3)

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

upon request

4 steel, nickel plated

valve seat synthetic resin on metal

normally open symbol

seal materials NBR

am

additional equipment

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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	
Kv value	m³/h	274,0	
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		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 to
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			<u> </u>
weight	kg	VSV-F 87,0	<u> </u>

	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 mn	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	٧
		power consumption	alternating current 230 V 50 Hz 2,90 V	Ν

	pneuma	tic specifications	options
actuation pressure range	bar	4-10	
air consumption	cm³/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

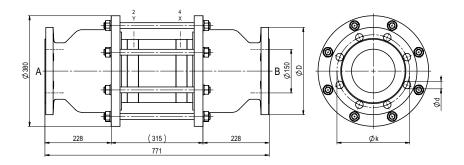
actuation pressure range

hydraulic specifications options 10-30 / 30-60 upon request preferably 4/2-way control valve NPT 1/4 G 1/4

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

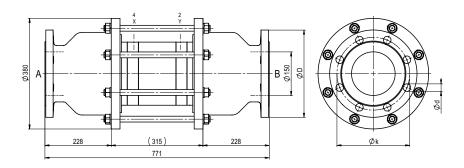
actuator ports

control



flanges PN	DIN	øD	øk	ød
16	2633	285	240	22
40	2635	300	250	26

function: **NO** open when not energized



pneumatic actuation (separately)



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





type VSV-F 200

5-VSV-F 200

valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-16 bar orifice DN 200 mm connection flange

function valve

normally open symbol

normally closed NC symbol

valve

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 2 steel, galvanized (3)

(5)

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 pressureflow 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/maxhydraulic 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	
Kv value	m³/h	450,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 16 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	10	
switching time	ms	opening 800-3000 closing 800-3000	
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 159,0	
additional equipment			upon request

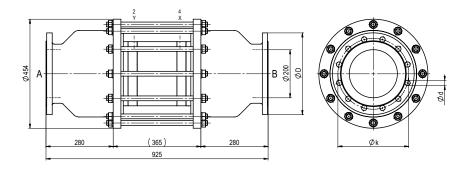
	electrical specifications		options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 50 Hz	special voltage upon request	
power consumption	DC	4,8 W	2,5 W	
	AC	pick up 11,0 VA holding 8,5 VA		
protection	IP 65 (P54)	acc. DIN 40 050		
nergized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form B, 4	4 positions x 90° / wire diameter 6	-8 mm
dditional 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	700		
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	

options

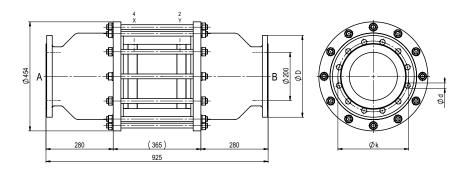
pneumatic specifications

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	340	295	22

function: **NO** open when not energized



pneumatic actuation (separately)



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





type VSV-F 250

5-VSV-F 250

valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-16 bar orifice DN 250 mm connection flange

function valve

(3)

normally closed

NC symbol

NO



valve normally open

symbol

available

LR/GL/WAZ

inductive/mechanical upon request

alternating current 230 V 50 Hz 2,90 W

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

design pressure balanced, with spring return

2 steel, galvanized

(5) 6 stainless steel

4 steel, nickel plated valve seat synthetic resin on metal

seal materials NBR

leak ports

approvals mounting

weight

limit switches

manual override

body materials

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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/maxhydraulic 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	
Kv value	m³/h	650,0	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 16 bar
			vacuum side leak rate upon rec
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	4	
switching time	ms	opening 1500-3000 closing 1500-300	0
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve out
ambient temperature	°C	direct mounted pilot valve 50	rature range of media max.160
flush ports	-		available

via pilot valve

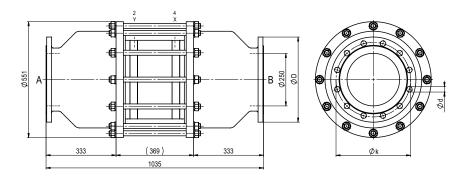
VSV-F 215,0

power consumption

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	3-8 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

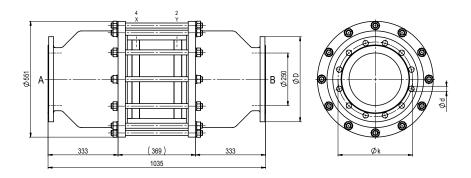
	pneuma	tic specifications	options
actuation pressure range	bar	4-10	
air consumption	cm³/stroke	1000	
cycle speed	main valve	speed variable by throttles on pilot valve	
control	preferably 5	/2-way pilot valve	
actuator ports	2/4	G 1/4	G 3/8

hydraulic specifications		options
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



flanges PN	DIN	øD	øk	ød
16	2633	405	355	26

function: **NO** open when not energized



pneumatic actuation (separately)



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





type FCF 65

5-FCF 65

valve type with pilot valve



2/2 way valve externally controlled pressure range PN 0-40 bar

> valve normally open symbol

orifice DN 65 mm connection flange function valve

normally closed

NC 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

body materials (1) aluminium 2

3 (5) 4 6

NO

valve seat synthetic resin on metal

PTFE, FPM, PE seal materials NBR, PU

details needed for main valve

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

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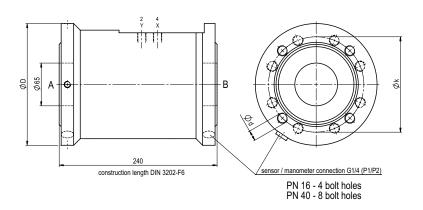
	general specifications		options
ports	FCF	flanges PN 16/40	
function		NC	NO
pressure range	bar	0-16/0-40	
Ky value	m³/h	107.0	
vacuum	leak rate	107,0	< 10 ⁻⁴ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 40 bar
procedure vacuum	111712		vacuum side leak rate upon request
back pressure	P ₂ > P ₁		available (max. 16 bar)
media		emulsions - oils - neutral gases	other medias upon request
abrasive media			
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A ⇒ B	as marked	bi-directional upon request (max. 16 bar)
switching cycles	1/min	50	
switching time	ms	opening 250-3000 closing 400-3000	
media temperature	°C	direct mounted pilot valve 60	>60°C upon request
ambient temperature	°C	direct mounted pilot valve 50	>50°C upon request
flush ports			
leak ports			
limit switches			inductive
manual override		via pilot valve	
approvals			upon request
mounting			
weight	kg	FCF 12,5	
additional equipment		sensor / manometer connection G 1/4	

	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	
	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

	pneumatic specifications		options
actuation pressure range	bar	4-10	3-10 upon request
air consumption	cm³/stroke	77	
cycle speed	main valve	speed variable by throttles on pilot valve	
control	preferably 5/2-way pilot valve		
pilot valve interface	NAMUR VI	OI / VDE 3845	ISO 1 DIN 5599/1
actuator ports	2/4	G 1/4	G 3/8

actuation pressure range by media control actuator ports

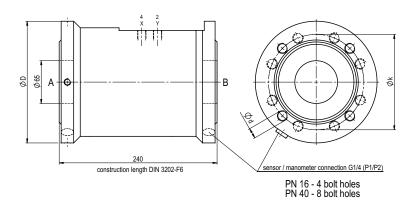
hydraulic specifications options 30-60 preferably 4/2-way control valve NPT 1/4 G 1/4



flanges PN	DIN	øD	øk	ød
16	2633	185	145	M16
40	2635	185	145	M16

type FCF 65

function: **NO** open when not energized



pneumatic actuation (separately)



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





type FCF-K 65

5-FCF-K 65

valve type with pilot valve



2/2 way valve externally controlled pressure range PN 0-40 bar

orifice DN 65 mm connection flange function valve

normally closed symbol

NC

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

3 (5) 4 (6)

valve seat synthetic resin on metal

seal materials NBR. PU PTFF, FPM, PF

details needed for main valve

- orifice
- port
- function NC
- operating pressureflow 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.

Seai illatellais	NDR, FC)	FIFE, FFIVI, FE
	general specifications		options
ports	FCF-K	flanges PN 16/40	
function	-	NC	
pressure range	bar	0-16/0-40	
pressure range	Dai	0-10/0-40	
Kv value	m³/h	98,0	
vacuum	leak rate		< 10 ⁻⁴ 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		available (max. 16 bar)
media		emulsions - oils - neutral gases	other medias upon request
abrasive media			
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A ⇒ B	as marked	bi-directional upon request (max. 16 bar)
switching cycles	1/min	50	
switching time	ms	opening 250-3000 closing 400-3000	
media temperature	°C	direct mounted pilot valve 60	>60°C upon request
ambient temperature	°C	direct mounted pilot valve 50	>50°C upon request
flush ports			
leak ports			
limit switches			
manual override		via pilot valve	
approvals			upon request
mounting			
weight	kg	FCF-K 9,2	
dditional equipment		sensor / manometer connection G 1/4	<u> </u>

	electrica	I 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		
	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

	pricuma	de apecinications	options
ctuation pressure range	bar	4-10	3-10 upon request
air consumption	cm³/stroke	77	
cycle speed	main valve s	speed variable by throttles on pilot valve	
control	preferably 5	2-way pilot valve	
pilot valve interface	NAMUR VE	0I / VDE 3845	ISO 1 DIN 5599/1
actuator ports	2/4	G 1/4	G 3/8

nnoumatic enecifications

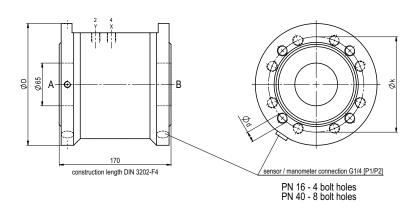
actuation pressure range by media control actuator ports

ac

hydraulic specifications options 30-60 preferably 4/2-way control valve NPT 1/4 G 1/4

ontions

specifications not highlighted are standard specifications highlighted in grey are optional



flanges PN	DIN	øD	øk	ød
16	2633	185	145	M16
40	2635	185	145	M16

pneumatic actuation (separately)



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

