



# type MK 10



2/2 way valve direct acting pressure range PN 0-64 bar orifice DN 10 mm connection thread

function valve

normally closed symbol

NC

valve 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 brass (5)

3 brass, nickel plated (4)

6 stainless steel

valve seat synthetic resin on metal

seal materials NBR

FPM, CR, EPDM

#### details needed

orifice	
■ port	
■ function NC/NO	
operating pressure	
■ flow rate	
■ media	pr
media temperature	p.
ambient temperature	
nominal voltage	

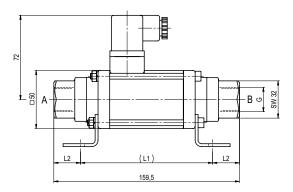
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

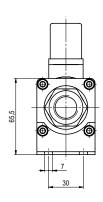
 If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

ports	MK		
function		threads G 1/4 - G 3/4	special threads
		NC	NO
pressure range	bar	0-16/0-40/0-64	110
Kv value	m³/h	2,5	
vacuum	leak rate		< 10 <sup>-6</sup> mbar•l•s <sup>-1</sup>
pressure-vacuum	P₁⇔ P₂		upon request
back pressure	P <sub>2</sub> > P <sub>1</sub>		available (max. 16 bar)
media		gaseous - liquid - contaminated	
abrasive media			
damping	opening		
. •	closing		
flow direction	A⇒B	as marked	bi-directional (max. 16 bar)
switching cycles	1/min	200	
switching time	ms	opening 25 closing 25	
media temperature	°C	DC: -10 to +100	-30 to +120
·		AC: -10 to +100	-30 to +120
imbient temperature	°C	DC: -10 to +80	
·		AC: -10 to +80	
limit switches			inductive (1x)
manual override			
approvals			LR/GL/WAZ
mounting			mounting brackets
weight	kg	MK 1,5	
dditional equipment			upon request

additional equipment			
			upon request
	electric	cal specifications	options
nominal voltage	Un	24 V DC	special voltage upon request
_	Un	230 V 40-60 Hz AC	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet	
		with integrated rectifier	
insulation rating	Н	180°C	
protection	IP65		
nergized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803	terminal box M16x1,5
		form A, 4 positions x 90° /	
		wire diameter 6-8 mm	
optional	M12x1	connector acc. DESINA	connector acc. VDMA
dditional equipment		illuminated plug with varistor	
current consumption	N-coil	24 V DC 1,00 A	
		230 V 40-60 Hz AC 0,13 A	
	H-coil		24 V DC 1,29 A
			230 V 40-60 Hz AC 0,16 A
explosion proof			
		inductive (I)	normally open-PNP
limit switches		inductive (B)	normally open-PNP

specifications not highlighted are standard specifications highlighted in grey are optional

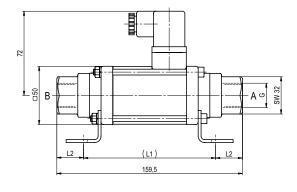


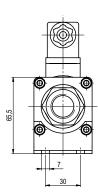


constructive length	L1	L2
0-16/0-40 bar	113,5	23
0-64 bar	121,5	19

# type MK 10

function: **NO** open when not energized







## type MK 15 **FK 15**



2/2 way valve direct acting pressure range PN 0-100 bar orifice DN 15 mm connection thread/flange

> function valve normally closed

> > valve normally open symbol

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 brass, nickel plated

4 steel, nickel plated valve seat synthetic resin on metal

seal materials NBR

DTEE EDM CD EDDM

⑤ without non-ferr. metals

2 steel, galvanized

6 stainless steel

#### details needed

- orifice
- port
- function NC/NO
- operating pressureflow rate
- media
- media temperature
- ambient temperature
- nominal voltage

seai materiais	NBK			PTFE, FPM, CR, EPDM
	general specifications		eral specifications options	
ports	MK	threads G	3/8 - G 3/4	special threads
	FK	flanges PN	l 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	4.8		
vacuum	leak rate	4,0		< 10 <sup>-6</sup> mbar•l•s <sup>-1</sup>
pressure-vacuum	P1⇔ P2			upon request
back pressure	P <sub>2</sub> > P <sub>1</sub>			available (max. 16 bar)
media	12-11	naseous -	liquid - highly viscous -	available (max. 10 bai)
modia		0	- contaminated	
abrasive media		gelatirious	contaminated	upon request
damping	opening			
. •	closing			available
flow direction	A ⇒ B	as marked		bi-directional (max. 16 bar)
switching cycles	1/min	200		
switching time	ms	opening 80	closing 80	
media temperature	°C	DC: -40 to	+100	-40 to +160
		AC: -40 to	+100	-40 to +160
ambient temperature	°C	DC: -40 to	+80	
		AC: -40 to	+80	
limit switches				inductive/mech. (depend. on temperature
manual override				available
approvals				LR/GL/WAZ
mounting				mounting brackets
weight	kg	MK 3,8	FK 5,0	
additional equipment				upon request
	electric	al specif	ications	ontions

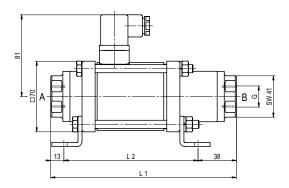
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and

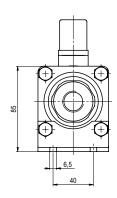
characteristics.

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.

	electri	cal specifications	options
nominal voltage	Un	24 V DC	special voltage upon request
nominai voitage		230 V 40-60 Hz AC	special voltage upon request
actuation	Un DC		special voltage upon request
actuation	AC	direct-current magnet	above 100°C with separate rectifie
	AC	direct-current magnet	above 100 C with separate rectille
		with integrated rectifier	
insulation rating	Н	180°C	
protection	IP65		
ergized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803	terminal box M16x1,5
		form A, 4 positions x 90° /	
		wire diameter 6-8 mm	
optional	M12x1	connector acc. DESINA	connector acc. VDMA
ditional equipment		illuminated plug with varistor	
rrent consumption	N-coil	24 V DC 1,60 A	
		230 V 40-60 Hz AC 0,15 A	
	H-coil		24 V DC 2,30 A
			230 V 40-60 Hz AC 0,24 A
explosion proof			
U1414 - 1		:	
limit switches		inductive (I)	normally open-PNP
		induktiv (B) mechanical	normally open-PNP single pole double throw-SPDT
			single note double throw-SPDT

specifications not highlighted are standard specifications highlighted in grey are optional

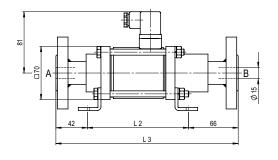


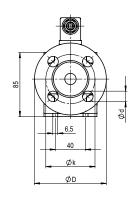


constructive length	L <sub>1</sub>	L2	Lз
standard	184	133	241
with 1/2 inductive limit switches	224	173	281
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	224	173	281
with mechanical limit switches	224	173	281

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

function: **NO** open when not energized









## type MK 20 **FK 20**



2/2 way valve direct acting pressure range PN 0-100 bar orifice DN 20 mm connection thread/flange

function valve

normally closed symbol

valve normally open symbol NO

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) brass

3 brass, nickel plated

4 steel, nickel plated

valve seat synthetic resin on metal

seal materials NBR

explosion proof

limit switches

PTFE, FPM, CR, EPDM

⑤ without non-ferr. metals

DC 224 A

230 V 40-60 Hz AC 0,28 A

normally open-PNP

normally open-PNP single pole double throw-SPDT

2 steel, galvanized

6 stainless steel

#### details needed

- orifice
- port
- function NC/NO
- operating pressureflow rate
- media
- media temperature
- ambient temperature
- nominal voltage

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.

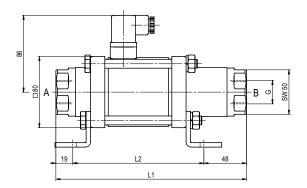
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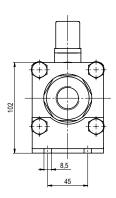
			= , , , =
	genera	l specifications	options
ports	MK	threads G 3/4 - G 1 1/4	special threads
	FK	flanges PN 16/40/100	special flanges
function		NC	NO
pressure range	bar	0-16/0-40/0-64/0-100	> 100 bar upon request
	2.0		
Kv value	m³/h	7,4	406
vacuum	leak rate		< 10 <sup>-6</sup> mbar•l•s <sup>-1</sup>
pressure-vacuum	P₁⇔ P₂		upon request
back pressure	P <sub>2</sub> > P <sub>1</sub>	P	available (max. 16 bar)
media		gaseous - liquid - highly viscous - gelatinous - contaminated	
abrasive media		-	upon request
damping	opening		
	closing		available
flow direction	A⇒B	as marked	bi-directional (max. 16 bar)
switching cycles	1/min	150	
switching time	ms	opening 110 closing 110	
media temperature	°C	DC: -40 to +100	-40 to +160
·		AC: -40 to +100	-40 to +160
ambient temperature	°C	DC: -40 to +80	
·		AC: -40 to +80	
limit switches	-		inductive/mech. (depend. on temperature)
manual override	-		available
approvals			LR/GL/WAZ
mounting			mounting brackets
weight	kg	MK 5,5 FK 7,5	
additional equipment		-7-	upon request
	electric	al specifications	options
nominal voltage	Un	24 V DC	special voltage upon request
	Un	230 V 40-60 Hz AC	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet	above 100°C with separate rectifier
		with integrated rectifier	
insulation rating	Н	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803	terminal box M16x1,5
		form A, 4 positions x 90° /	
		wire diameter 6-8 mm	
optional	M12x1	connector acc. DESINA	connector acc. VDMA
additional equipment		illuminated plug with varistor	
current consumption	N-coil	24 V DC 1,56 A	
		230 V 40-60 Hz AC 0.16 A	

H-coil

inductive (I inductive (B)

specifications not highlighted are standard specifications highlighted in grey are optional

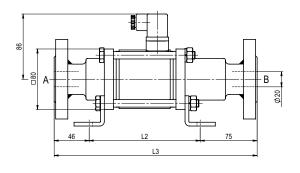


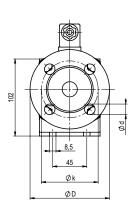


constructive length	L <sub>1</sub>	L2	L <sub>3</sub>
standard	215	148	269
with 1/2 inductive limit switches	259	192	313
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	259	192	313
with mechanical limit switches	259	192	313

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

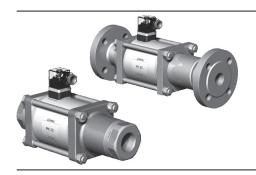
function: **NO** open when not energized







## type MK 25 FK 25



2/2 way valve direct acting pressure range PN 0-100 bar orifice DN 25 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 4 steel, nickel plated

⑤ without non-ferr. metals 6 stainless steel

valve seat synthetic resin on metal

seal materials NBR

PTFF FPM CR FPDM

#### details needed

- orifice
- port
- function NC/NO
- operating pressureflow rate
- media
- media temperature
- ambient temperature
- nominal voltage

I	n
an	1

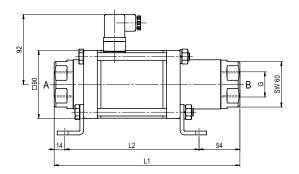
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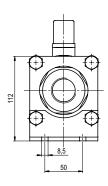
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seai materiais	NBK		PTFE, FPM, CR, EPDM
	general	specifications	options
ports	MK	threads G 1 - G 1 1/2	special threads
•	FK	flanges PN 16/40/100	special flanges
function		NC	NO
pressure range	bar	0-16/0-40/0-64/0-100	> 100 bar upon request
Kv value	m³/h	11,2	
vacuum	leak rate		< 10 <sup>-6</sup> mbar•l•s <sup>-1</sup>
pressure-vacuum	P₁⇔ P₂		upon request
back pressure	P <sub>2</sub> > P <sub>1</sub>		available (max. 16 bar)
media		gaseous - liquid - highly viscous -	
		gelatinous - contaminated	
abrasive media			upon request
damping	opening		
	closing		available
flow direction	A ⇒ B	as marked	bi-directional (max. 16 bar)
switching cycles	1/min	130	
switching time	ms	opening 130 closing 130	
media temperature	°C	DC: -40 to +100	-40 to +160
		AC: -40 to +100	-40 to +160
ambient temperature	°C	DC: -40 to +80	_
		AC: -40 to +80	
limit switches			inductive/mech. (depend. on temperature)
manual override			available
approvals			LR/GL/WAZ
mounting		N/ 0 0 51/ 10 5	mounting brackets
weight	kg	MK 8,0 FK 10,5	
additional equipment			upon request
	electric	al specifications	options
		•	
nominal voltage	Un	24 V DC	special voltage upon request
	1.1	220 1/ 40 60 11= 40	angold voltage upon request

	-		upon request
	electri	cal specifications	options
nominal voltage	Un	24 V DC	special voltage upon request
•	Un	230 V 40-60 Hz AC	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	above 100°C with separate rectifier
insulation rating	Н	180°C	
protection	IP65		
nergized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm	terminal box M16x1,5
optional	M12x1	connector acc. DESINA	connector acc. VDMA
dditional equipment		illuminated plug with varistor	
urrent consumption	N-coil	24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A	
	H-coil		24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A
explosion proof			
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP
		mechanical	single pole double throw-SPDT

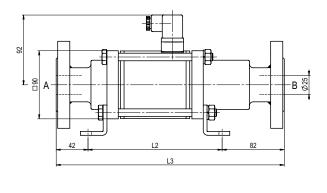
specifications not highlighted are standard specifications highlighted in grey are optional

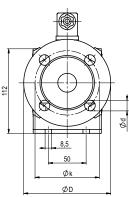




constructive length	I 1	12	13
9	0.40	470	200
standard	246	178	302
with 1/2 inductive limit switches	287	219	343
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	299	231	355
with mechanical limit switches	287	219	343

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







## type MK 32 FK 32



2/2 way valve direct acting pressure range PN 0-100 bar orifice DN 32 mm connection thread/flange

function valve

normally closed symbol

NC

valve normally open symbol

NO

threads G 1 1/4 - G 1 1/2

flanges PN 16/40/64/100



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 brass, nickel plated

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

4 steel, nickel plated valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

options

special flanges

< 10-6 mhareles-1

#### details needed

- orifice
- port
- function NC/NO
- operating pressureflow rate
- media
- media temperature
- ambient temperature
- nominal voltage

	general	specific	ations
ports	MK	threads G	1 1/4 - G 1
	FK	flanges PN	16/40/64/
function	-	NC	
pressure range	bar	0-16/0-40/0	)-64/0-100
Kv value	m³/h	14,1	
vacuum	leak rate		
pressure-vacuum	P₁⇔ P₂		
back pressure	P <sub>2</sub> > P <sub>1</sub>		
media		gaseous - I	iquid - hig
		gelatinous	<ul> <li>contamin</li> </ul>
abrasive media			
damping	opening		
	closing		
flow direction	A ⇒ B	as marked	
switching cycles	1/min	120	
switching time	ms	opening 44	0 closing
media temperature	°C	DC: -40 to	+100
		AC: -40 to	
ambient temperature	°C DC: -40 t		+80
		AC: -40 to	+80
limit switches			
manual override			
approvals			
mounting			
weight	kg	MK 13,5	FK 17,5
additional equipment	-		
	electric	al specifi	cation
nominal voltage	Un	24 V	DC

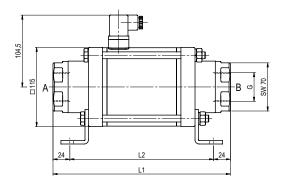
vacuuiii	leak rate			< 10 - IIIDal •I•S
ure-vacuum	P₁⇔ P₂			upon request
ck pressure	P <sub>2</sub> > P <sub>1</sub>			available (max. 16 bar)
media		gaseous -	liquid - highly viscous -	
		gelatinous	- contaminated	
asive media	-			upon request
damping	opening			
	closing	-		available
w direction	A ⇒ B	as marked		bi-directional (max. 16 bar)
hing cycles	1/min	120		
tching time	ms	opening 44	10 closing 250	
emperature	°C	DC: -40 to	+100	-40 to +160
		AC: -40 to	+100	-40 to +160
emperature	°C	DC: -40 to	+80	
		AC: -40 to	+80	
nit switches				inductive/mech. (depend. on temperature)
ual override				available
approvals				LR/GL/WAZ
mounting				mounting brackets
weight	kg	MK 13,5	FK 17,5	
equipment				upon request
				47
	electric	al specif	ications	options

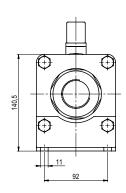
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kg t	MK 13,5 FK 17,5	upon request
1		upon request
electri	cal specifications	options
Un Un	24 V DC	special voltage upon request
Un	230 V 40-60 Hz AC	special voltage upon request
DC	direct-current magnet	
AC	direct-current magnet	above 100°C with separate rectifier
	with integrated rectifier	
ı H	180°C	
IP65		
ED	100%	
1	plug acc. DIN EN 175301-803	terminal box M16x1,5
	form A, 4 positions x 90° /	
	wire diameter 6-8 mm	
:	illuminated plug with varistor	
N-coil	24 V DC 2,07 A	
	230 V 40-60 Hz AC 0,28 A	
H-coil		24 V DC 3,27 A
		230 V 40-60 Hz AC 0,44 A
	inductive (I)	normally open-PNP
	inductive (B)	normally open-PNP
	mechanical	single pole double throw-SPDT
-		
n I I I	Un Un Un DC AC AC H H IP65 ED	Un

specifications not highlighted are standard specifications highlighted in grey are optional

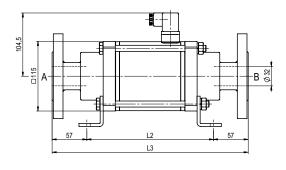


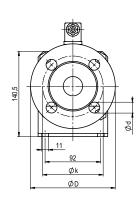


constructive length	L <sub>1</sub>	L2	Lз
standard	258	210	324
with 1/2 inductive limit switches	299	251	365
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	299	251	365
with mechanical limit switches	299	251	365

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

function: **NO** open when not energized







## type MK 40 FK 40



2/2 way valve direct acting

pressure range PN 0-64 bar (NO: 0-40 bar)

orifice DN 40 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 6 stainless steel

4 steel, nickel plated valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

#### details needed

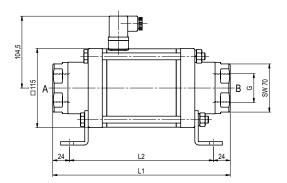
- orifice
- port
- function NC/NO
- operating pressureflow rate
- media
- media temperature
- ambient temperature
- nominal voltage

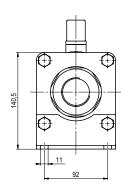
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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.

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\ h = a\
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6 bar)
end. on temperature
na. on tomporataro
request
request
parate rectifier
3,27 A
3,27 A
3,27 A 0,44 A
3,27 A
3,27 A 0,44 A
3,27 A 0,44 A
r

specifications not highlighted are standard specifications highlighted in grey are optional

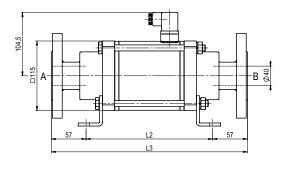


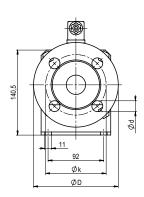


constructive length	L <sub>1</sub>	L2	L3
standard	258	210	324
with 1/2 inductive limit switches	299	251	365
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	299	251	365
with mechanical limit switches	299	251	365

flanges PN	DIN	øD	øk	ød
16	2633	150	110	18
40	2635	150	110	18
64	2637	170	125	22

function: **NO** open when not energized







## type MK 50 FK 50



2/2 way valve direct acting pressure range PN 0-16 bar orifice DN 50 mm connection thread/flange

> function valve

normally closed

symbol

valve normally open

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

symbol

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

2 steel, galvanized

#### details needed

- orifice
- port
- function NC/NO
- operating pressureflow rate
- media
- media temperature
- ambient temperature
- nominal voltage

	general	specifications	options
ports	MK	threads G 2	special threads
	FK	flanges PN 16	special flanges
function	-	NC	NO
pressure range	bar	0-16	
Kv value	m³/h	28,2	
vacuum	leak rate	20,2	< 10 <sup>-6</sup> mbar•l•s <sup>-1</sup>
pressure-vacuum	P1⇔ P2		upon request
back pressure	P <sub>2</sub> > P <sub>1</sub>		available (max. 10 bar)
media	12-11	gaseous - liquid - highly viscous -	available (max. 10 bai)
media		gelatinous - contaminated	
abrasive media			upon request
damping	opening		
	closing		available
flow direction	A⇒B	as marked	bi-directional (max. 10 bar)
switching cycles	1/min	40	,
switching time	ms	opening 400 closing 400	
media temperature	°C	DC: -20 to +80	-20 to +120
		AC: -20 to +80	-20 to +120
mbient temperature	°C	DC: -20 to +80	
·		AC: -20 to +80	
limit switches			inductive
manual override			available
approvals			LR/GL/WAZ
mounting			mounting brackets
weight	kg	MK 25,5 FK 31,0	-
dditional equipment			upon request
	electric	al specifications	options

ad

ional equipment	<del>.</del>	
	electrical	specif
nominal voltage	Un	24 V

DC

actuation

ii specifications		options
24 V	DC	special voltage upon request
230 V 40-60	Hz AC	special voltage upon request
direct-current	magnet	
direct-current	magnet	above 100°C with separate rectifier
with integrated rectifier		

terminal box M16x1,5

230 V 40-60 Hz AC 0,43 A

DC 3 30 A

insulation rating protection energized duty rating connection

П	100 C
IP65	
ED	100%
	plug acc. DIN EN 175301-803
	form A, 4 positions x 90° /

optional additional equipment current consumption

	wire diameter 6-8 mm		
	illuminated p	lug with varistor	
.il	24 \/	DC 2.00 A	

IN-COII	24 V		DC	2,80 A	
	230 V	40-60 Hz	AC	0,33 A	
H-coil					

explosion proof

limit switches	

inductive (I) inductive (B)	normally open-PNP normally open-PNP
nductive (B)	normally open-PNP

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.

The valves' technical design is based

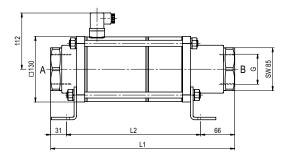
on media and application requirements. This can lead to deviations from the general

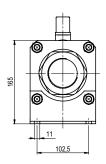
specifications shown on the data sheet with

regards to the design, sealing materials and

characteristics.

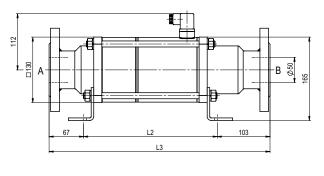
specifications not highlighted are standard specifications highlighted in grey are optional

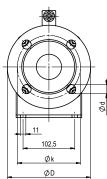




constructive length	L <sub>1</sub>	L2	Lз
standard	365	268	438
with 1/2 inductive limit switches	365	268	438
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	365	268	438

flanges PN	DIN	øD	øk	ød
16	2633	165	125	18







## type FK 65



2/2 way valve direct acting pressure range PN 0-16 bar orifice DN 65 mm connection flange

function valve

normally closed

symbol

NC

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

NO

body materials (1) aluminium 2 steel, galvanized

(3)

4 steel, nickel plated valve seat synthetic resin on metal 6 stainless steel

(5)

seal materials

NBR

PTFE, FPM, EPDM

#### details needed

- orifice
- port
- function NC/NO
- operating pressureflow rate
- media
- media temperature
- ambient temperature
- nominal voltage

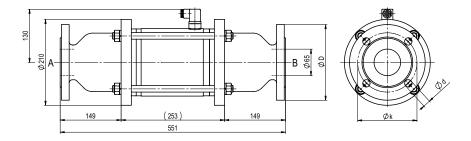
	general specifications		options	
ports	FK	flanges PN 16	special flanges	
function		NC	NO	
pressure range	bar	0-16	> 16 bar upon request	
Kv value	m³/h	45,0		
vacuum	leak rate		< 10 <sup>-4</sup> mbar•l•s <sup>-1</sup>	
pressure-vacuum	P₁⇔ P₂		upon request	
back pressure	P <sub>2</sub> > P <sub>1</sub>		available (max. 5 bar)	
media		gaseous - liquid - highly viscous - gelatinous - contaminated		
abrasive media	-	3	upon request	
damping	opening		is less as a discussion	
. •	closing		upon request	
flow direction	A⇒B	as marked	bi-directional (max. 5 bar)	
switching cycles	1/min	20		
switching time	ms	opening 600 closing 800		
media temperature	°C	DC: -20 to +80		
		AC: -20 to +80		
ambient temperature	°C	DC: -20 to +80		
		AC: -20 to +80		
limit switches			inductive	
manual override				
approvals			LR/GL/WAZ	
mounting				
weight	kg	FK 35,0		
additional equipment			upon request	
	oloctric	al specifications	options	
	GIGCTIL	ai əpecilications	options	

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.

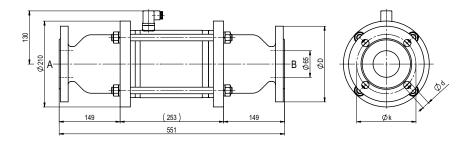
If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

			-
nominal voltage	Un	24 V DC	special voltage upon request
_	Un	230 V 40-60 Hz AC	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet	
		with integrated rectifier	
insulation rating	Н	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803	terminal box M16x1,5
		form A, 4 positions x 90° /	
		wire diameter 6-8 mm	
optional			
additional equipment		illuminated plug with varistor	
current consumption	N-coil	24 V DC 4,40 A	
		230 V 40-60 Hz AC 0,65 A	
	H-coil		
			230 V 40-60 Hz AC 0,79 A
explosion proof			
limit switches		inductive (I)	normally open-PNP
mint switches		inductive (I)	normally open-PNP
			normany open and

specifications not highlighted are standard specifications highlighted in grey are optional



flanges PN	DIN	øD	øk	ød
16	2633	185	145	18





## type FK 80



2/2 way valve direct acting pressure range PN 0-16 bar orifice DN 80 mm connection flange

function valve

normally closed symbol

NC

valve normally open symbol

NO



Above stated body materials refer to the valve port connections that get in contact with the media only! pressure balanced, with spring return

(1) aluminium

2 steel, galvanized

(3)

⑤ without non-ferr. metals 6 stainless steel

4 steel, nickel plated valve seat synthetic resin on metal

seal materials NBR

body materials

PTFF FPM FPDM

#### details needed

- orifice
- port
- function NC/NO
- operating pressureflow rate
- media
- media temperature
- ambient temperature
- nominal voltage

Sear materials	NBK		PIFE, FPIM, EPDIM
	general	specifications	options
ports	FK	flanges PN 16	special flanges
function		NC	NO
pressure range	bar	0-16	> 16 bar upon request
Kv value	m³/h	70,0	
vacuum	leak rate		< 10 <sup>-4</sup> mbar•l•s <sup>-1</sup>
pressure-vacuum	P₁⇔ P₂		upon request
back pressure	P <sub>2</sub> > P <sub>1</sub>		available (max. 5 bar)
media		gaseous - liquid - highly viscous -	
		gelatinous - contaminated	
abrasive media			upon request
damping	opening		
	closing		upon request
flow direction	A ⇒ B	as marked	bi-directional (max. 5 bar)
switching cycles	1/min	20	
switching time	ms	opening 600 closing 800	
media temperature	°C	DC: -20 to +80	
		AC: -20 to +80	
ambient temperature	°C	DC: -20 to +80	
		AC: -20 to +80	
limit switches			inductive
manual override			
approvals			LR/GL/WAZ
mounting			
weight	kg	FK 38,0	
additional equipment			upon request

idditional equipment	ky	1 K 30,0	
	electrica	l specificat	ions
nominal voltage	Un	24 V	DC

actuation

Un	24 V	DC
Un	230 V 40-6	0 Hz AC
DC	direct-currer	nt magnet
AC	direct-currer	nt magnet

with integrated rectifier

insulation rating protection energized duty rating connection

180°C IP65 plug acc. DIN EN 175301-803 form A, 4 positions x 90° /

optional additional equipment current consumption

wire diameter 6-8 mm illuminated plug with varistor 24 V DC 4,40 A N-coil

H-coil

230 V 40-60 Hz AC 0,65 A 230 V 40-60 Hz AC 0,79 A

options

special voltage upon request special voltage upon request

terminal box M16x1,5

explosion proof

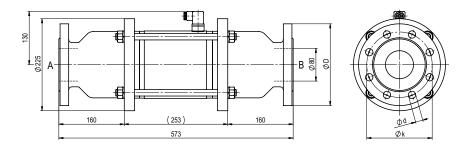
limit switches

inductive (I) normally open-PNP

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specifications not highlighted are standard specifications highlighted in grey are optional



flanges PN	DIN	øD	øk	ød
16	2633	200	160	18

