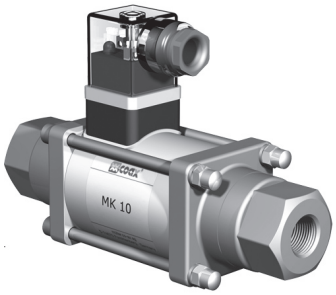
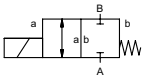
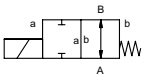
coaxial valve
type MK 10



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 symbol	**NO**





design	pressure balanced, with spring return	
body materials	① brass	②
	③ brass, nickel plated	⑤
	④	⑥ stainless steel
valve seat	synthetic resin on metal	
seal materials	NBR	FPM, CR, EPDM

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

details needed

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

general specifications			**options**
ports	MK	threads G 1/4 - G 3/4	special threads
function		NC	NO
pressure range	bar	0-16/0-40/0-64	
Kv value	m³/h	2,5	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		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
ambient 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	
additional equipment			upon request

electrical specifications			**options**
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	230 V 40-60 Hz AC	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	
insulation rating	H	180°C	
protection	IP65		
energized 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
additional 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			
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP

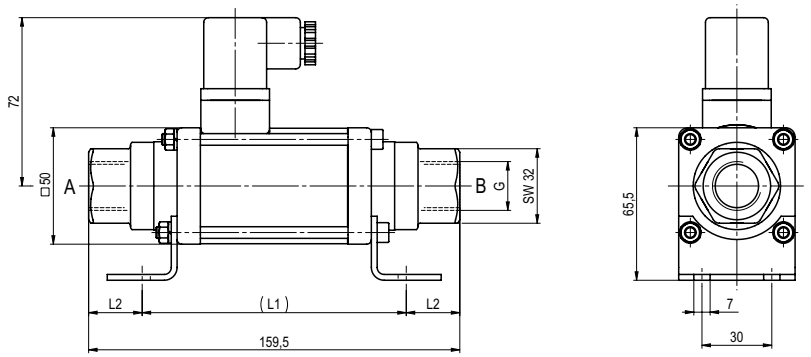
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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.

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

type **MK 10**

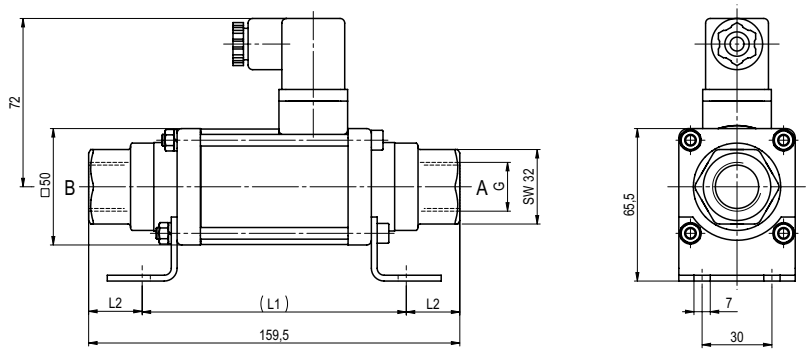
function: **NC**
closed when not energized



constructive length	L_1	L_2
0-16/0-40 bar	113,5	23
0-64 bar	121,5	19

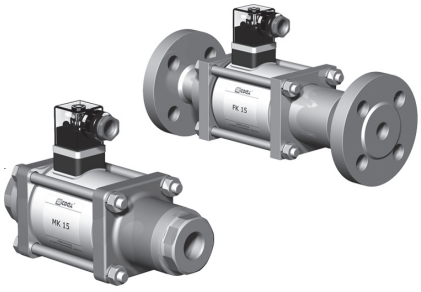
type **MK 10**

function: **NO**
open when not energized

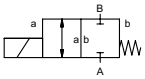


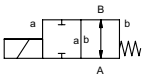
coaxial valve

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 symbol	**NC**
	valve normally open symbol	**NO**





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

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

details needed

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

		general specifications	options
ports	MK	threads G 3/8 - G 3/4	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
Kv value	m³/h	4,8	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		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	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

		electrical specifications	options
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	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	H	180°C	
protection	IP65		
energized 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
additional equipment		illuminated plug with varistor	
current 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			
limit switches		inductive (I)	normally open-PNP
		induktiv (B)	normally open-PNP
		mechanical	single pole double throw-SPDT

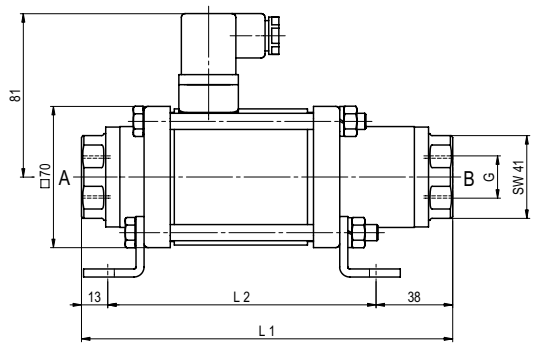
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

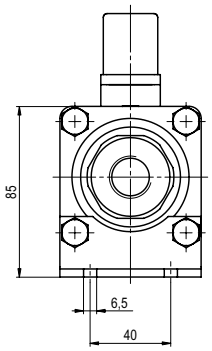
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

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

type **MK 15**

function: **NC**
closed when not energized



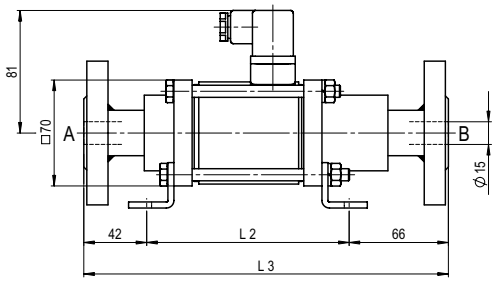


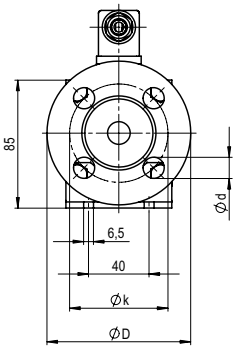
constructive length	L_1	L_2	L_3
standard	184	133	241
with 1/2 inductive limit switches	224	173	281
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	224	173	281
with mechanical limit switches	224	173	281

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

type **FK 15**

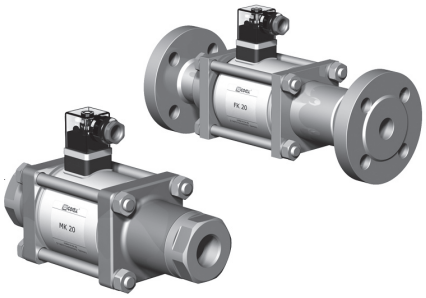
function: **NO**
open when not energized

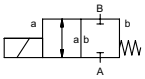
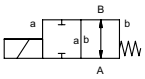




coaxial valve

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 **NC**	
	valve normally open symbol **NO**	

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

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

details needed

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

	general 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
Kv value	m³/h	7,4	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		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			upon request

	electrical specifications		options
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	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	H	180°C	
protection	IP65		
energized 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
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		24 V DC 2,24 A
			230 V 40-60 Hz AC 0,28 A
explosion proof			
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP
		mechanical	single pole double throw-SPDT

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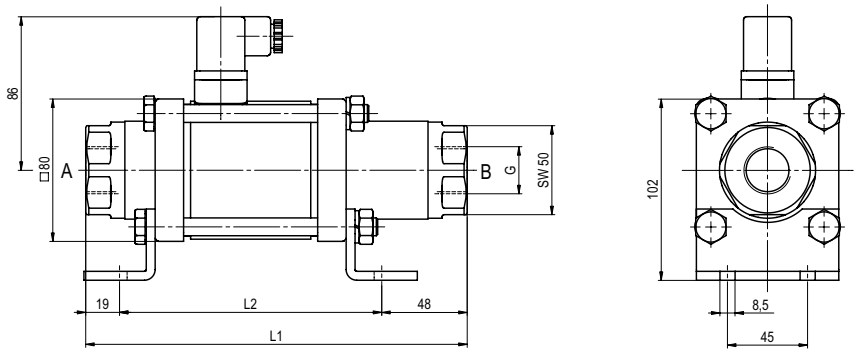
- specifications not highlighted are standard
  specifications highlighted in grey are optional

type **MK 20**

function: **NC**
closed when not energized

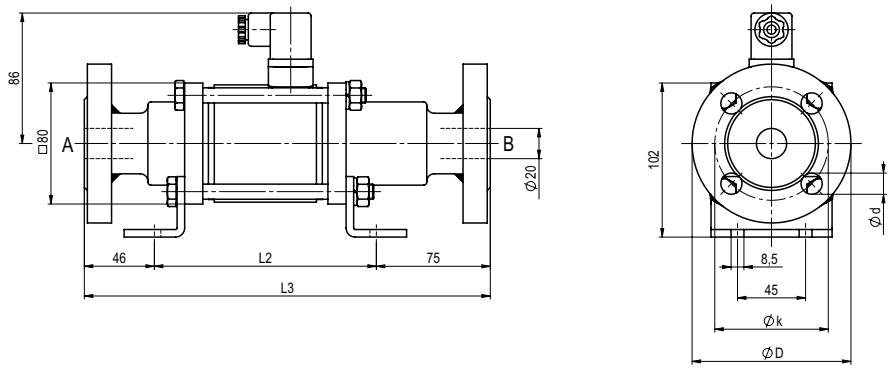


constructive length	L_1	L_2	L_3
standard	215	148	269
with 1/2 inductive limit switches	259	192	313
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	259	192	313
with mechanical limit switches	259	192	313

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

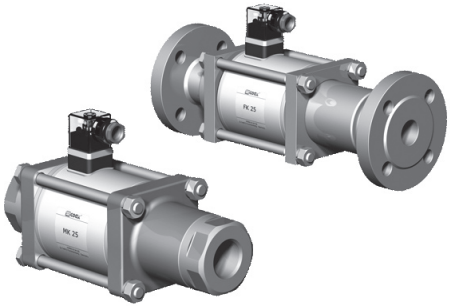
type **FK 20**

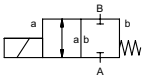
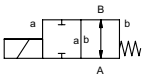
function: **NO**
open when not energized



coaxial valve

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**	

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

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

details needed

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

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^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		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			mounting brackets
weight	kg	MK 8,0 FK 10,5	
additional equipment			upon request

electrical specifications			**options**
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	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	H	180°C	
protection	IP65		
energized 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
additional equipment		illuminated plug with varistor	
current 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

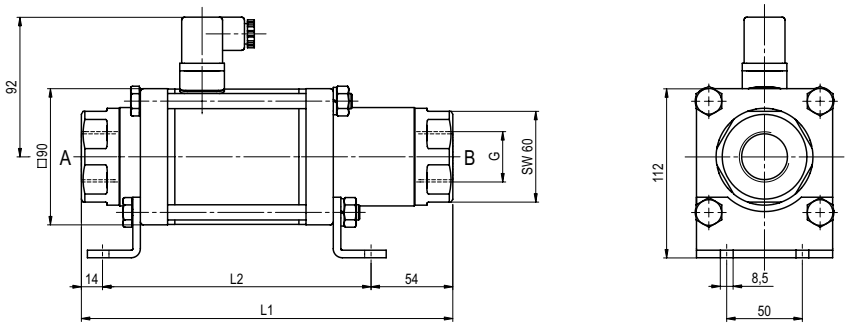
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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.

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

type **MK 25**

function: **NC**
closed when not energized

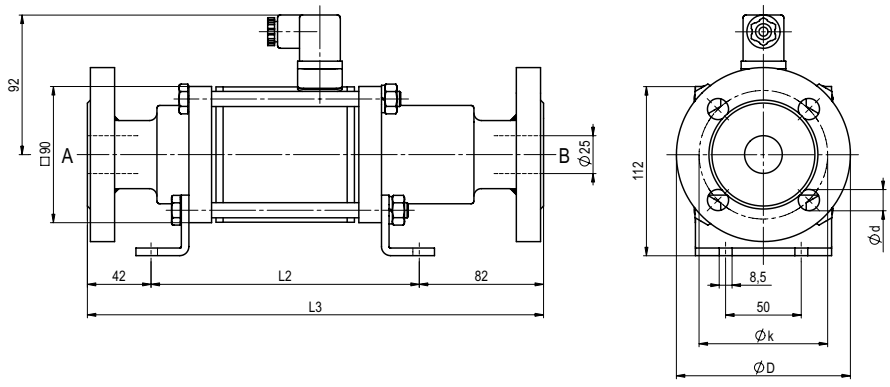


constructive length	L_1	L_2	L_3
standard	246	178	302
with 1/2 inductive limit switches	287	219	343
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	299	231	355
with mechanical limit switches	287	219	343

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

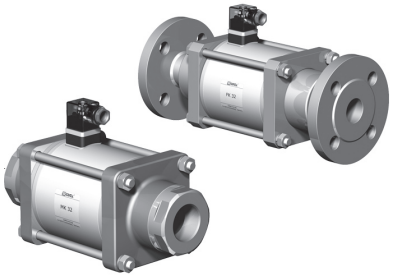
type **FK 25**

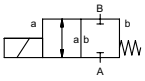
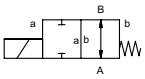
function: **NO**
open when not energized



coaxial valve

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**	

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

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

details needed

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

general specifications			**options**
ports	MK	threads G 1 1/4 - G 1 1/2	special threads
	FK	flanges PN 16/40/64/100	special flanges
function		NC	NO
pressure range	bar	0-16/0-40/0-64/0-100	
Kv value	m³/h	14,1	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		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	120	
switching time	ms	opening 440 closing 250	
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 13,5 FK 17,5	
additional equipment			upon request

electrical specifications			**options**
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	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	H	180°C	
protection	IP65		
energized 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 additional equipment		illuminated plug with varistor	
current consumption	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
explosion proof			
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP
		mechanical	single pole double throw-SPDT

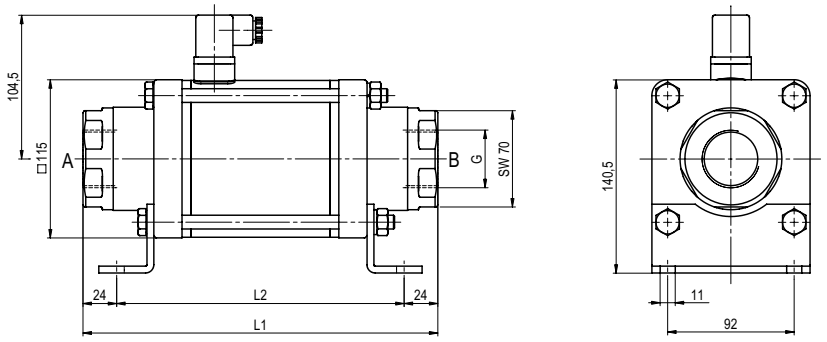
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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.

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

type **MK 32**

function: **NC**
closed when not energized

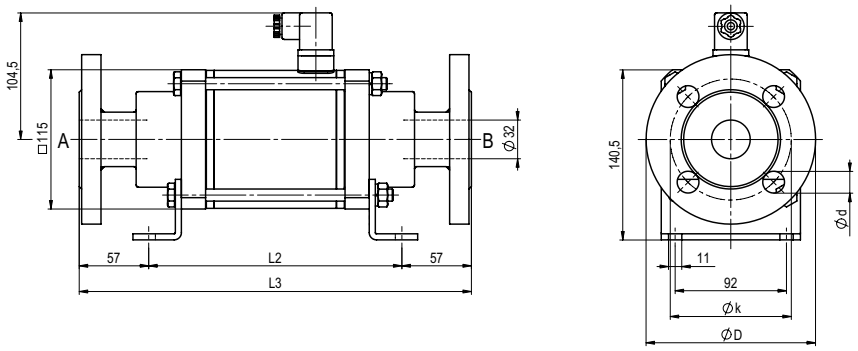


constructive length	L_1	L_2	L_3
standard	258	210	324
with 1/2 inductive limit switches	299	251	365
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	299	251	365
with mechanical limit switches	299	251	365

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

type **FK 32**

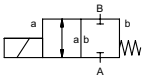
function: **NO**
open when not energized

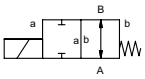


coaxial valve

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**





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

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

details needed

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

general specifications			**options**
ports	MK	threads G 1 1/2 - G 2	special threads
	FK	flanges PN 16/40/100	special flanges
function		NC	NO
pressure range	bar	0-16/0-40/0-64	0-16/0-40
Kv value	m³/h	18,4	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		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	90	
switching time	ms	opening 520 closing 150	
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 14,0 FK 18,0	
additional equipment			upon request

electrical specifications			**options**
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	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	H	180°C	
protection	IP65		
energized 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 additional equipment		illuminated plug with varistor	
current consumption	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
explosion proof			
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP
		mechanical	single pole double throw-SPDT

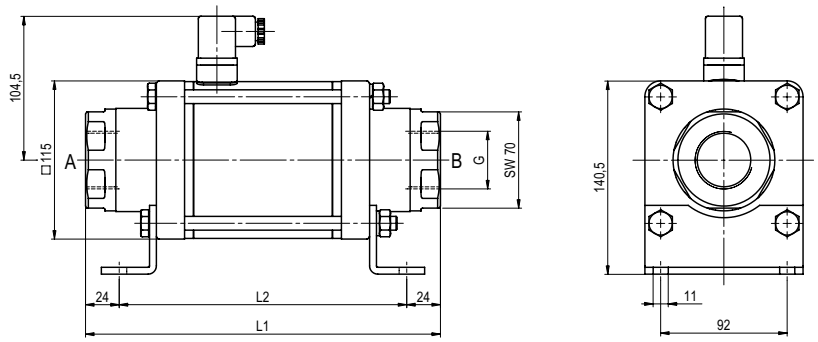
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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.

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

type **MK 40**

function: **NC**
closed when not energized

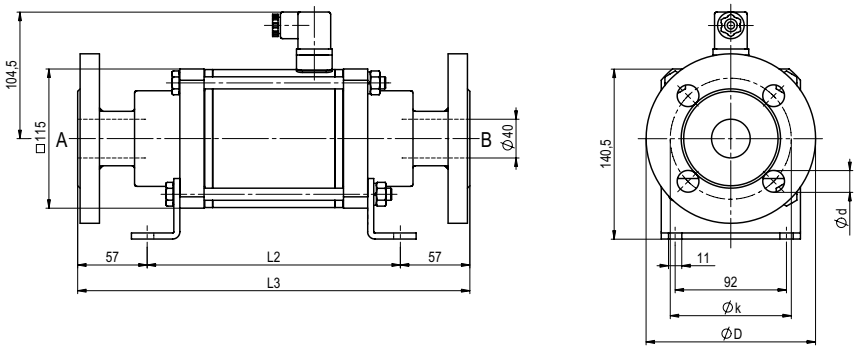


constructive length	L_1	L_2	L_3
standard	258	210	324
with 1/2 inductive limit switches	299	251	365
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	299	251	365
with mechanical limit switches	299	251	365

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

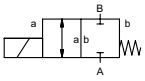
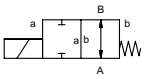
type **FK 40**

function: **NO**
open when not energized



coaxial valve

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 **NC**	
	valve normally open	
	symbol **NO**	

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

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

details needed

- orifice
- port
- function NC/NO
- operating pressure
- flow 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		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		available (max. 10 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. 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
ambient 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	
additional equipment			upon request

electrical specifications			**options**
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	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	H	180°C	
protection	IP65		
energized 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 additional equipment		illuminated plug with varistor	
current consumption	N-coil	24 V DC 2,80 A	
		230 V 40-60 Hz AC 0,33 A	
	H-coil		24 V DC 3,30 A
			230 V 40-60 Hz AC 0,43 A
explosion proof			
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP

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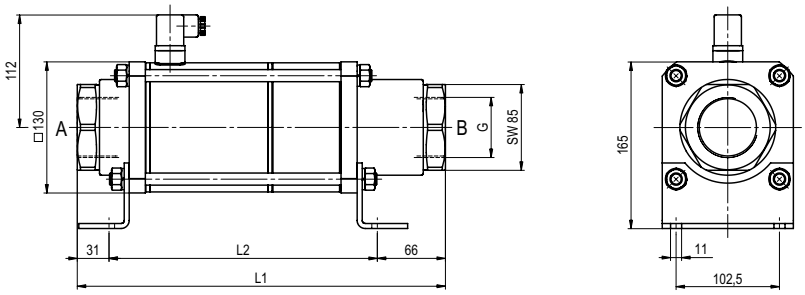
- specifications not highlighted are standard
  specifications highlighted in grey are optional

type **MK 50**

function: **NC**
closed when not energized

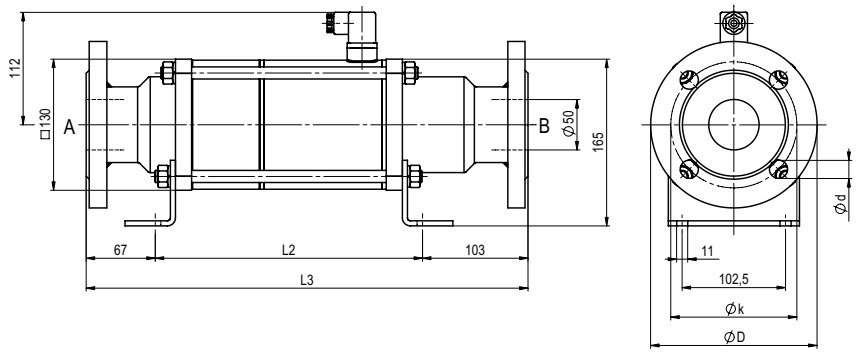


constructive length	L_1	L_2	L_3
standard	365	268	438
with 1/2 inductive limit switches	365	268	438
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	365	268	438

flanges PN	DIN	øD	øk	ød
16	2633	165	125	18

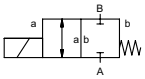
type **FK 50**

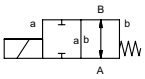
function: **NO**
open when not energized



coaxial valve
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	**NO**





design	pressure balanced, with spring return	
body materials	⓪ aluminium	② steel, galvanized
	③	⑤
	④ steel, nickel plated	⑥ stainless steel
valve seat	synthetic resin on metal	
seal materials	NBR	PTFE, FPM, EPDM

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

details needed

- orifice
- port
- function NC/NO
- operating pressure
- flow 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^{-4} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		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 35,0	
additional equipment			upon request

		electrical specifications	options
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	230 V 40-60 Hz AC	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	
insulation rating	H	180°C	
protection	IP65		
energized 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 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
		inductive (B)	normally open-PNP

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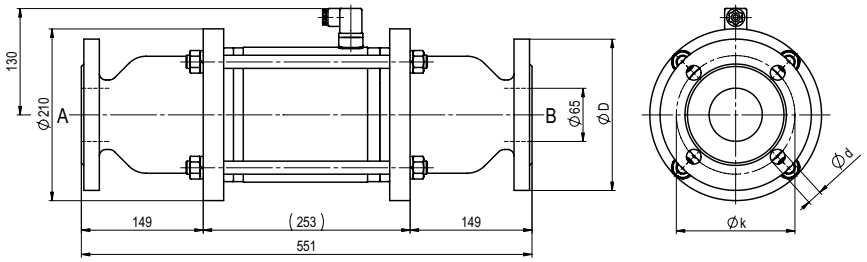
- specifications not highlighted are standard
  specifications highlighted in grey are optional

type **FK 65**

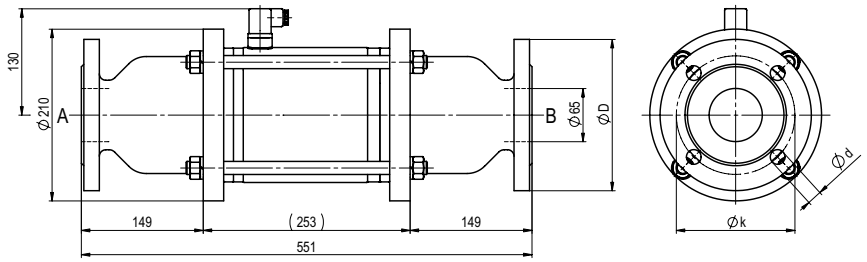
function: **NC**
closed when not energized



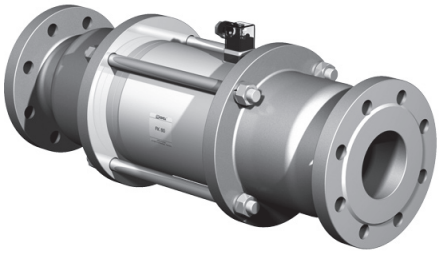
flanges PN	DIN	øD	øk	ød
16	2633	185	145	18

type **FK 65**

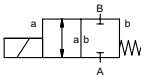
function: **NO**
open when not energized

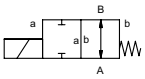


coaxial valve
type FK 80



2/2 way valve	**direct acting**	
pressure range	PN 0-16 bar	
orifice	DN 80 mm	
connection	flange	
function	valve normally closed	**NC**
	valve normally open	**NO**





design	pressure balanced, with spring return	
body materials	⓪ 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	NBR	PTFE, FPM, EPDM

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

details needed
- orifice
- port
- function NC/NO
- operating pressure
- flow 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	70,0	
vacuum	leak rate		< 10^{-4} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		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

		electrical specifications	**options**
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	230 V 40-60 Hz AC	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	
insulation rating	H	180°C	
protection	IP65		
energized 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 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
		inductive (B)	normally open-PNP

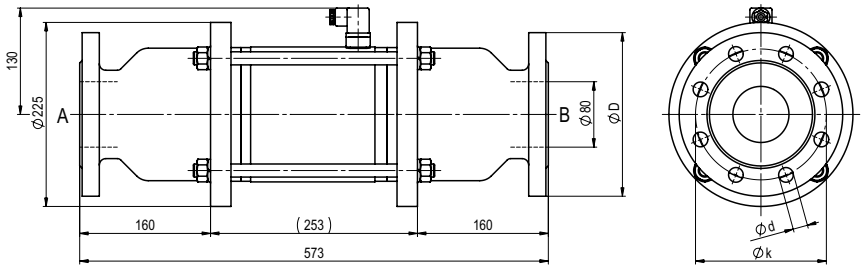
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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.

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

type **FK 80**

function: **NC**
closed when not energized



flanges PN	DIN	øD	øk	ød
16	2633	200	160	18

type **FK 80**

function: **NO**
open when not energized