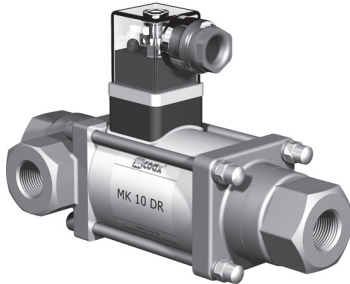
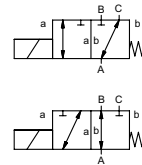



# coaxial valve

## type MK 10 DR



**3/2 way valve**  
**pressure range** PN 0-40 bar  
**orifice** DN 10 mm  
**connection** thread  
**function** valve normally closed (A ► B)  
**symbol** **NC**  
  
 valve normally open (A ► B)  
**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, intersecting switch-over  
**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

### details needed

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- 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 0-16/0-25/0-40 A ⇒ B max.40 / B ⇒ A max.25 / A ⇒ C max.40 / C ⇒ A max.25	
Kv value	m³/h 2,6	
vacuum	leak rate	< 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>
pressure-vacuum	P <sub>1</sub> ⇌ P <sub>2</sub>	upon request
back pressure	P <sub>2</sub> > P <sub>1</sub>	see pressure range
media	gaseous - liquid - contaminated	
abrasive media		
damping	opening	
	closing	
flow direction	see pressure range	
switching cycles	1/min 200	
switching time	ms opening 40 closing 25	
media temperature	°C DC: -10 to +80 AC: -10 to +80	-30 to +120 -30 to +120
ambient temperature	°C DC: -10 to +80 AC: -10 to +80	
limit switches		
manual override		
approvals		LR/GL/WAZ
mounting		mounting brackets
weight	kg MK 2,2	
additional equipment		upon request

 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.

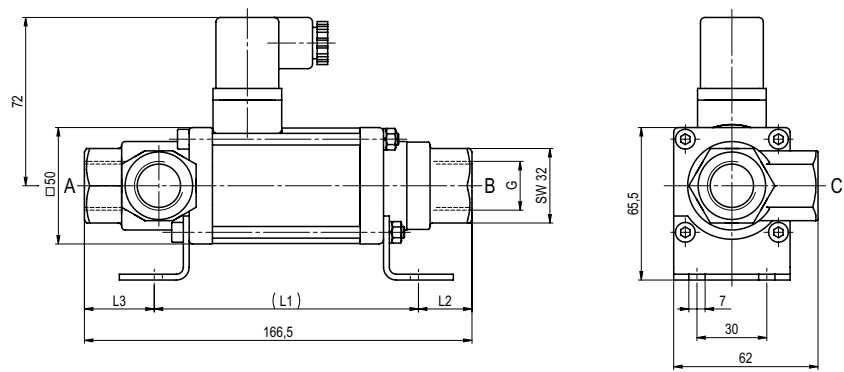
 If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

	electrical specifications	options
nominal voltage	U <sub>n</sub> 24 V DC U <sub>n</sub> 230 V 40-60 Hz AC	special voltage upon request 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		

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

type **MK 10 DR**

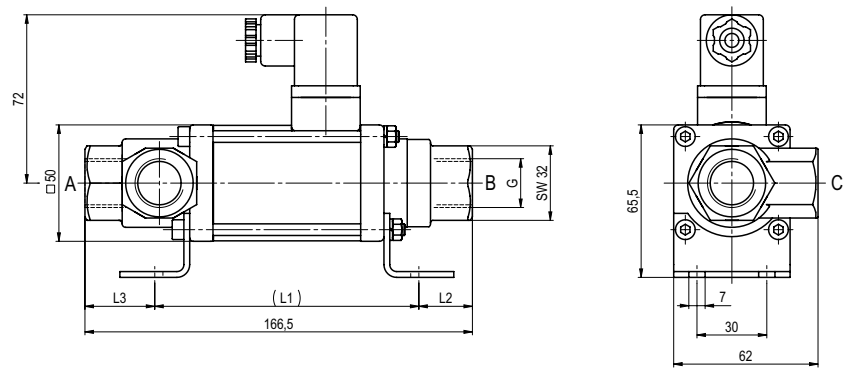
function: **NC**  
closed when not energized (A ► B)



constructive length	L1	L2	L3
0-16/0-40 bar	113,5	23	30
0-64 bar	121,5	19	26

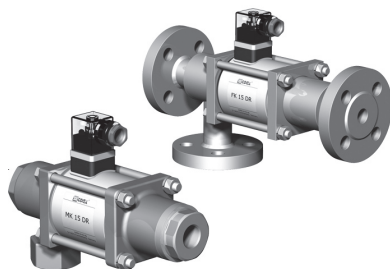
type **MK 10 DR**

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



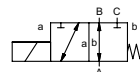
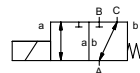
# coaxial valve

## type MK 15 DR FK 15 DR



**3/2 way valve** direct acting  
**pressure range** PN 0-40 bar  
**orifice** DN 15 mm  
**connection** thread/flange  
**function** valve normally closed (A ► B)  
 symbol **NC**

valve normally open (A ► B)  
 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, intersecting switch-over

**body materials** ① brass ② steel, galvanized  
 ③ brass, nickel plated ⑤ without non-ferr. metals  
 ④ steel, nickel plated ⑥ stainless steel

**valve seat** synthetic resin on metal

**seal materials** NBR PTFE, FPM, CR, EPDM

### details needed

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

general specifications		options
<b>ports</b>	MK threads G 3/8 - G 3/4 FK flanges PN 16/40	special threads special flanges
<b>function</b>	NC	NO
<b>pressure range</b>	bar 0-16/0-40 A ► B max.40 / B ► A max.16 / A ► C max.40 / C ► A max.40	
<b>Kv value</b>	m³/h 4,3	
<b>vacuum</b>	leak rate	< 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>
<b>pressure-vacuum</b>	P <sub>1</sub> ⇌ P <sub>2</sub>	upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>	see pressure range
<b>media</b>	gaseous - liquid - highly viscous - gelatinous - contaminated	
<b>abrasive media</b>		upon request
<b>damping</b>	opening closing	
<b>flow direction</b>	see pressure range	
<b>switching cycles</b>	1/min 200	
<b>switching time</b>	ms opening 80 closing 80	
<b>media temperature</b>	°C DC: -40 to +80 AC: -40 to +80	-40 to +160 -40 to +160
<b>ambient temperature</b>	°C DC: -40 to +80 AC: -40 to +80	
<b>limit switches</b>		inductive/mech. (depend. on temperature)
<b>manual override</b>		available
<b>approvals</b>		LR/GL/WAZ
<b>mounting</b>		mounting brackets
<b>weight</b>	kg MK 4,3 FK 5,9	
<b>additional equipment</b>		upon request

⚠ 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.

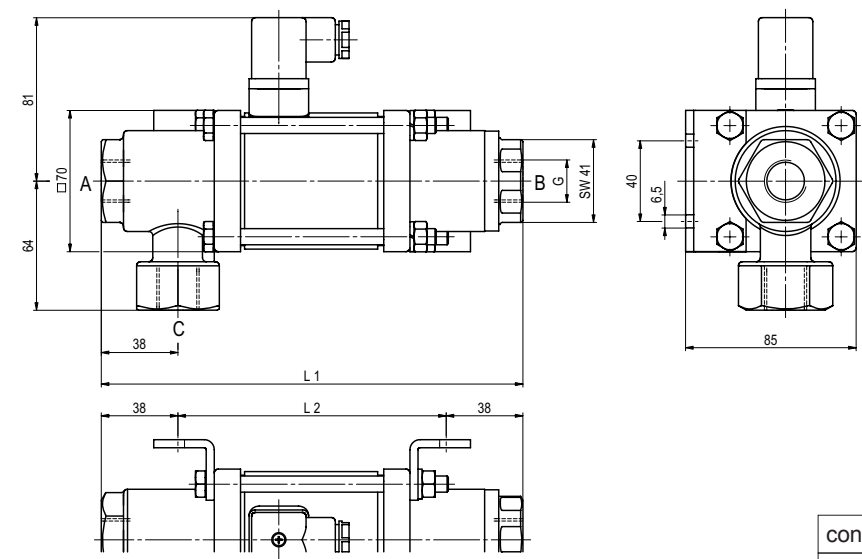
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

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

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

type **MK 15 DR**

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

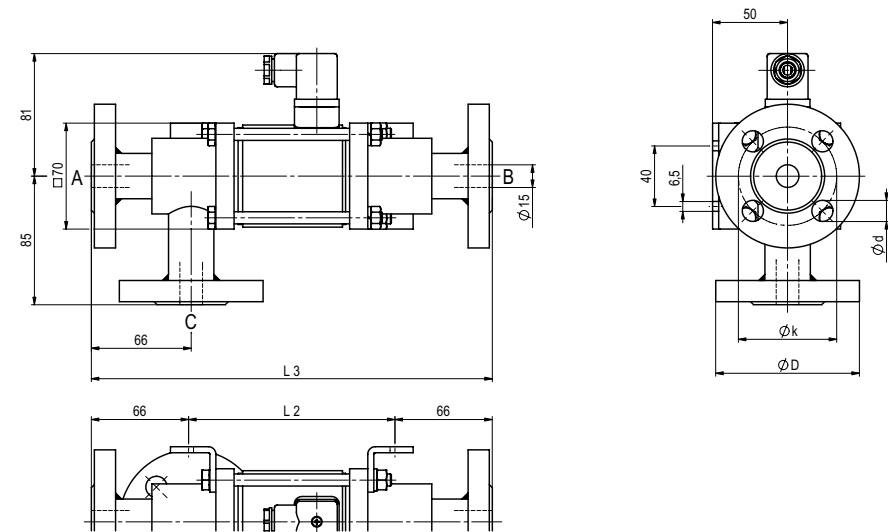


constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	209	133	265
with 1/2 inductive limit switches	249	173	305
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	249	173	305
with mechanical limit switches	249	173	305

flanges PN	DIN	øD	øk	ød
16	2633	95	65	14
40	2635	95	65	14

type **FK 15 DR**

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

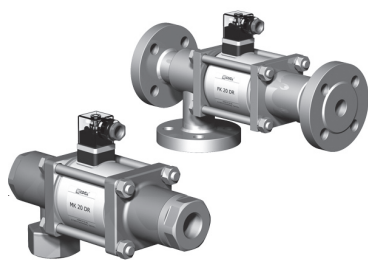


The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.

Rights reserved to make technical alterations • Not responsible for printing errors • Detailed drawings can be obtained upon request

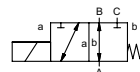
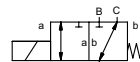
# coaxial valve

## type MK 20 DR FK 20 DR



**3/2 way valve** direct acting  
**pressure range** PN 0-40 bar  
**orifice** DN 20 mm  
**connection** thread/flange  
**function** valve normally closed (A ► B)  
 symbol **NC**

valve normally open (A ► B)  
 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, intersecting switch-over

**body materials** ① brass ② steel, galvanized  
 ③ brass, nickel plated ⑤ without non-ferr. metals  
 ④ steel, nickel plated ⑥ stainless steel

**valve seat** synthetic resin on metal

**seal materials** NBR PTFE, FPM, CR, EPDM

### details needed

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

### general specifications

### options

<b>ports</b>	MK	threads G 3/4 - G 1 1/4	special threads
	FK	flanges PN 16/40	special flanges
<b>function</b>		NC	NO
<b>pressure range</b>	bar	0-16/0-40 A ⇒ B max.40 / B ⇒ A max.16 / A ⇒ C max.40 / C ⇒ A max.40	
<b>Kv value</b>	m³/h	6,7	
<b>vacuum</b>	leak rate		< 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>
<b>pressure-vacuum</b>	P <sub>1</sub> ⇌ P <sub>2</sub>		upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>	see pressure range	
<b>media</b>		gaseous - liquid - highly viscous - gelatinous - contaminated	
<b>abrasive media</b>			upon request
<b>damping</b>	opening		
	closing		
<b>flow direction</b>		see pressure range	
<b>switching cycles</b>	1/min	150	
<b>switching time</b>	ms	opening 110 closing 110	
<b>media temperature</b>	°C	DC: -40 to +80 AC: -40 to +80	-40 to +160 -40 to +160
<b>ambient temperature</b>	°C	DC: -40 to +80 AC: -40 to +80	
<b>limit switches</b>			inductive/mech. (depend. on temperature)
<b>manual override</b>			available
<b>approvals</b>			LR/GL/WAZ
<b>mounting</b>			mounting brackets
<b>weight</b>	kg	MK 6,0 FK 8,4	
<b>additional equipment</b>			upon request

### electrical specifications

### options

<b>nominal voltage</b>	U <sub>n</sub>	24 V DC	special voltage upon request
	U <sub>n</sub>	230 V 40-60 Hz AC	special voltage upon request
<b>actuation</b>	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	above 100°C with separate rectifier
<b>insulation rating</b>	H	180°C	
<b>protection</b>	IP65		
<b>energized duty rating</b>	ED	100%	
<b>connection</b>		plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm	terminal box M16x1,5
<b>optional</b>	M12x1	connector acc. DESINA	connector acc. VDMA
<b>additional equipment</b>		illuminated plug with varistor	
<b>current consumption</b>	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
<b>explosion proof</b>			
<b>limit switches</b>		inductive (I) inductive (B) mechanical	normally open-PNP normally open-PNP single pole double throw-SPDT

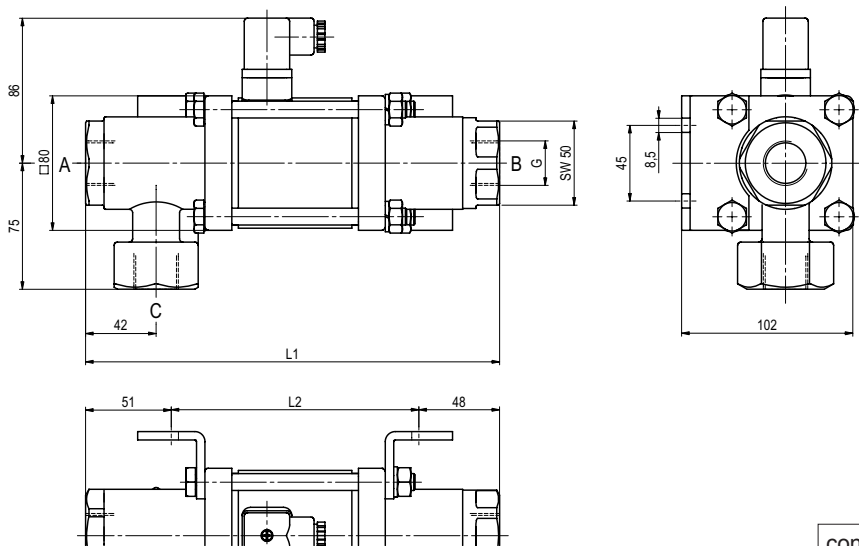
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⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals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

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

type **MK 20 DR**

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

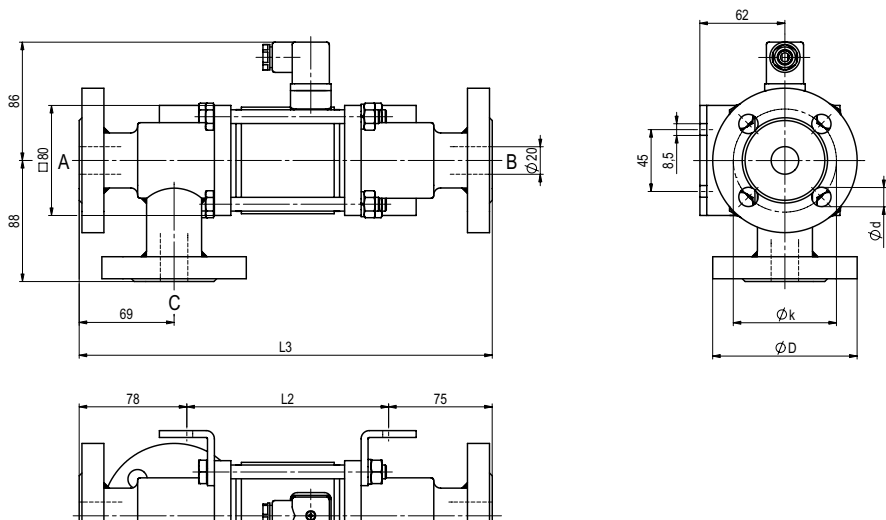


constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	247	148	301
with 1/2 inductive limit switches	291	192	345
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	291	192	345
with mechanical limit switches	291	192	345

flanges PN	DIN	øD	øk	ød
16	2633	105	75	14
40	2635	105	75	14

type **FK 20 DR**

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

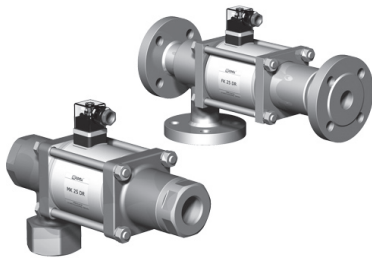


The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.

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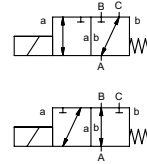
# coaxial valve


## type MK 25 DR FK 25 DR



**3/2 way valve** direct acting  
**pressure range** PN 0-40 bar  
**orifice** DN 25 mm  
**connection** thread/flange  
**function** valve normally closed (A ► B)  
 symbol **NC**

valve normally open (A ► B)  
 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, intersecting switch-over

**body materials** ① brass ② steel, galvanized  
 ③ brass, nickel plated ⑤ without non-ferr. metals  
 ④ steel, nickel plated ⑥ stainless steel


**valve seat** synthetic resin on metal


**seal materials** NBR PTFE, FPM, CR, EPDM

### details needed

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

	general specifications		options
<b>ports</b>	MK	threads G 1 - G 1 1/2	special threads
	FK	flanges PN 16/40	special flanges
<b>function</b>		NC	NO
<b>pressure range</b>	bar	0-16/0-40 A ► B max.40 / B ► A max.16 / A ► C max.40 / C ► A max.40	
<b>Kv value</b>	m³/h	11,2	
<b>vacuum</b>	leak rate		< 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>
<b>pressure-vacuum</b>	P <sub>1</sub> ⇌ P <sub>2</sub>		upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>	see pressure range	
<b>media</b>		gaseous - liquid - highly viscous - gelatinous - contaminated	
<b>abrasive media</b>			upon request
<b>damping</b>	opening		
	closing		
<b>flow direction</b>		see pressure range	
<b>switching cycles</b>	1/min	130	
<b>switching time</b>	ms	opening 130 closing 130	
<b>media temperature</b>	°C	DC: -40 to +80 AC: -40 to +80	-40 to +160 -40 to +160
<b>ambient temperature</b>	°C	DC: -40 to +80 AC: -40 to +80	
<b>limit switches</b>			inductive/mech. (depend. on temperature)
<b>manual override</b>			available
<b>approvals</b>			LR/GL/WAZ
<b>mounting</b>			mounting brackets
<b>weight</b>	kg	MK 9,2 FK 12,0	
<b>additional equipment</b>			upon request

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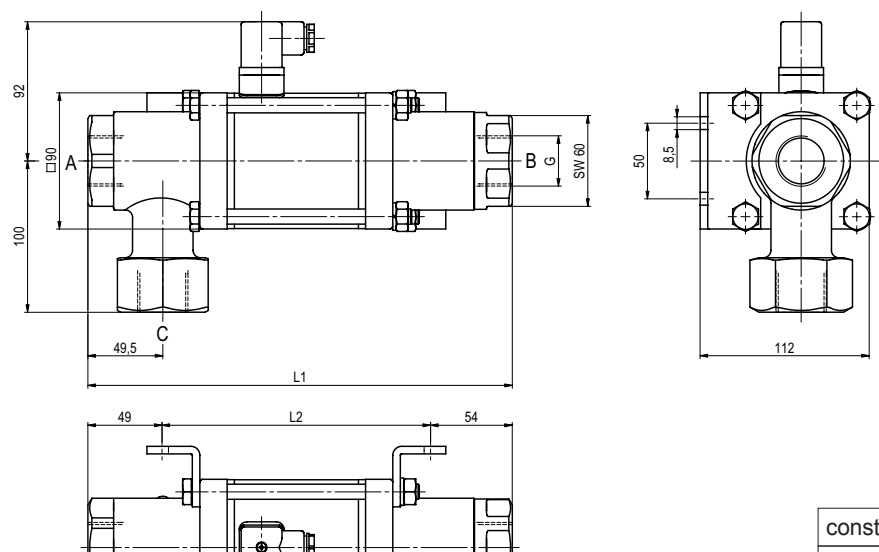
 If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

	electrical specifications		options
<b>nominal voltage</b>	U <sub>n</sub>	24 V DC	special voltage upon request
	U <sub>n</sub>	230 V 40-60 Hz AC	special voltage upon request
<b>actuation</b>	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	above 100°C with separate rectifier
<b>insulation rating</b>	H	180°C	
<b>protection</b>	IP65		
<b>energized duty rating</b>	ED	100%	
<b>connection</b>		plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm	terminal box M16x1,5
<b>optional</b>	M12x1	connector acc. DESINA	connector acc. VDMA
<b>additional equipment</b>		illuminated plug with varistor	
<b>current consumption</b>	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
<b>explosion proof</b>			
<b>limit switches</b>		inductive (I) inductive (B) mechanical	normally open-PNP normally open-PNP single pole double throw-SPDT

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

type **MK 25 DR**

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

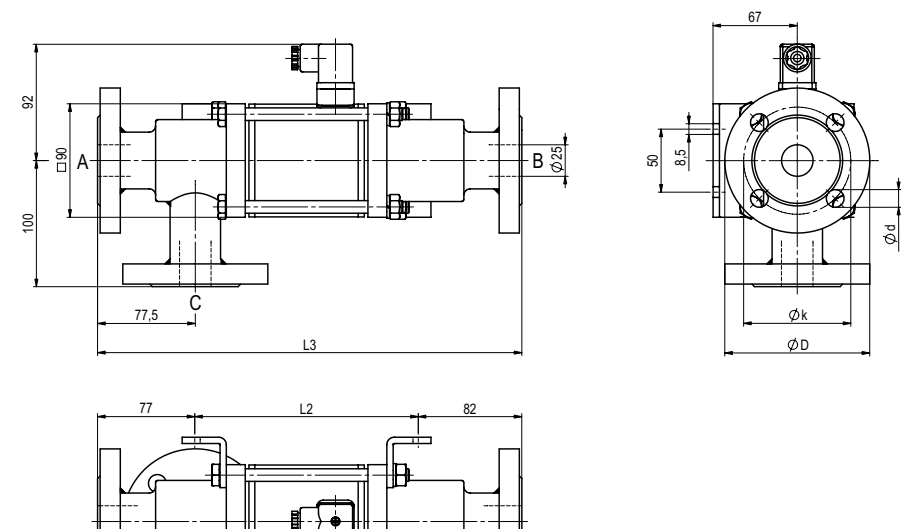


constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	281	178	337
with 1/2 inductive limit switches	322	219	378
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	334	231	390
with mechanical limit switches	322	219	378

flanges PN	DIN	øD	øk	ød
16	2633	115	85	14
40	2635	115	85	14

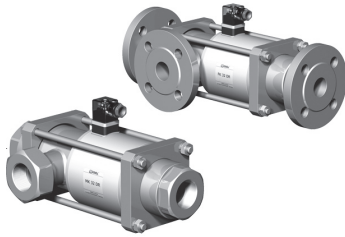
type **FK 25 DR**

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



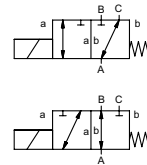
# coaxial valve


## type MK 32 DR FK 32 DR



**3/2 way valve** direct acting  
**pressure range** PN 0-40 bar  
**orifice** DN 32 mm  
**connection** thread/flange  
**function** valve normally closed (A ► B)  
 symbol **NC**

valve normally open (A ► B)  
 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, intersecting switch-over

**body materials** ① 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, CR, EPDM

### details needed

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

	general specifications		options
<b>ports</b>	MK	threads G 1 1/4 - G 1 1/2	special threads
	FK	flanges PN 16/40	special flanges
<b>function</b>		NC	NO
<b>pressure range</b>	bar	0-16/0-40	
		A ⇒ B max.40 / B ⇒ A max.16 / A ⇒ C max.40 / C ⇒ A max.16	
<b>Kv value</b>	m³/h	14,1 [A ⇒ B] 8,9 [A ⇒ C]	
<b>vacuum</b>	leak rate		< 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>
<b>pressure-vacuum</b>	P <sub>1</sub> ⇌ P <sub>2</sub>		upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>	see pressure range	
<b>media</b>		gaseous - liquid - highly viscous - gelatinous - contaminated	
<b>abrasive media</b>			upon request
<b>damping</b>	opening		
	closing		
<b>flow direction</b>		see pressure range	
<b>switching cycles</b>	1/min	120	
<b>switching time</b>	ms	opening 440 closing 250	
<b>media temperature</b>	°C	DC: -40 to +100	-40 to +160
		AC: -40 to +100	-40 to +160
<b>ambient temperature</b>	°C	DC: -40 to +80	
		AC: -40 to +80	
<b>limit switches</b>			inductive/mech. (depend. on temperature)
<b>manual override</b>			available
<b>approvals</b>			LR/GL/WAZ
<b>mounting</b>			mounting brackets
<b>weight</b>	kg	MK 18,0 FK 22,0	
<b>additional equipment</b>			upon request

 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.

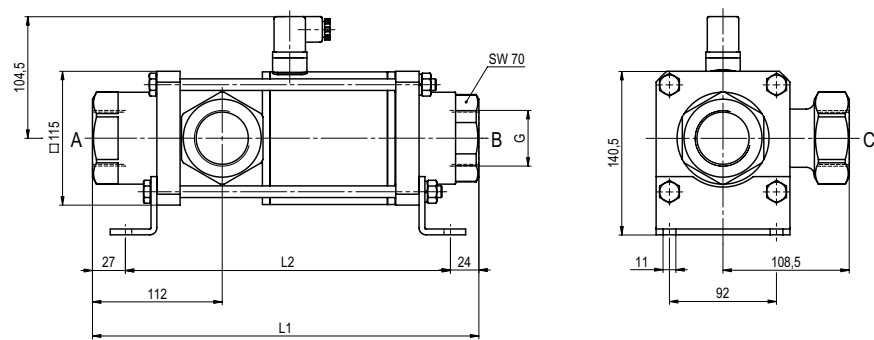
 If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

	electrical specifications		options
<b>nominal voltage</b>	U <sub>n</sub>	24 V DC	special voltage upon request
	U <sub>n</sub>	230 V 40-60 Hz AC	special voltage upon request
<b>actuation</b>	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	above 100°C with separate rectifier
<b>insulation rating</b>	H	180°C	
<b>protection</b>	IP65		
<b>energized duty rating</b>	ED	100%	
<b>connection</b>		plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm	terminal box M16x1,5
<b>optional additional equipment</b>		illuminated plug with varistor	
<b>current consumption</b>	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
<b>explosion proof</b>			
<b>limit switches</b>		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

type **MK 32 DR**

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

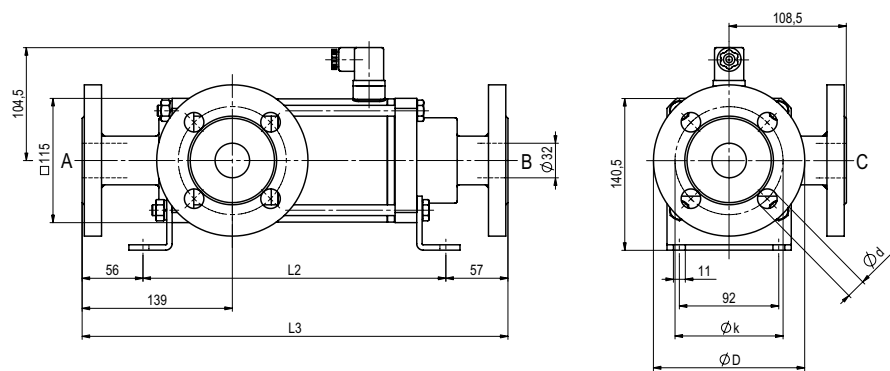


constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	332	281	394
with 1/2 inductive limit switches	373	322	435
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	373	322	435
with mechanical limit switches	373	322	435

flanges PN	DIN	øD	øk	ød
16	2633	140	100	18
40	2635	140	100	18

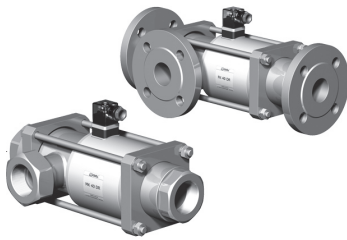
type **FK 32 DR**

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



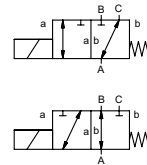
# coaxial valve


## type MK 40 DR FK 40 DR



**3/2 way valve** direct acting  
**pressure range** PN 0-16 bar  
**orifice** DN 40 mm  
**connection** thread/flange  
**function** valve normally closed (A ► B)  
 symbol **NC**

valve normally open (A ► B)  
 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, intersecting switch-over

**body materials** ① 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, CR, EPDM

### details needed

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

	general specifications		options
<b>ports</b>	MK	threads G 1 1/2 - G 2	special threads
	FK	flanges PN 16	special flanges
<b>function</b>		NC	NO
<b>pressure range</b>	bar	0-16	
		A ⇒ B max.16 / B ⇒ A max.16 / A ⇒ C max.16 / C ⇒ A max.16	
<b>Kv value</b>	m³/h	18,4 [A ⇒ B]	11,5 [A ⇒ C]
<b>vacuum</b>			< 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>
<b>pressure-vacuum</b>	P <sub>1</sub> ⇌ P <sub>2</sub>		upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>	see pressure range	
<b>media</b>		gaseous - liquid - highly viscous - gelatinous - contaminated	
<b>abrasive media</b>			upon request
<b>damping</b>	opening		
	closing		
<b>flow direction</b>		see pressure range	
<b>switching cycles</b>	1/min	90	
<b>switching time</b>	ms	opening 520 closing 150	
<b>media temperature</b>	°C	DC: -40 to +100	-40 to +160
		AC: -40 to +100	-40 to +160
<b>ambient temperature</b>	°C	DC: -40 to +80	
		AC: -40 to +80	
<b>limit switches</b>			inductive/mech. (depend. on temperature)
<b>manual override</b>			available
<b>approvals</b>			LR/GL/WAZ
<b>mounting</b>			mounting brackets
<b>weight</b>	kg	MK 18,5 FK 23,0	
<b>additional equipment</b>			upon request

 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.

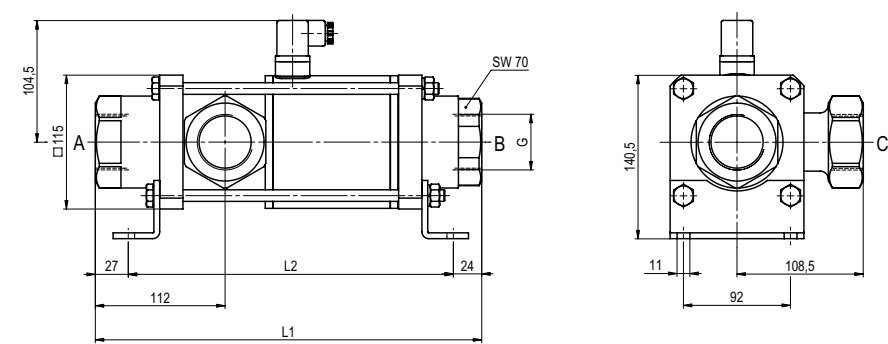
 If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

	electrical specifications		options
<b>nominal voltage</b>	U <sub>n</sub>	24 V DC	special voltage upon request
	U <sub>n</sub>	230 V 40-60 Hz AC	special voltage upon request
<b>actuation</b>	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	above 100°C with separate rectifier
<b>insulation rating</b>	H	180°C	
<b>protection</b>	IP65		
<b>energized duty rating</b>	ED	100%	
<b>connection</b>		plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm	terminal box M16x1,5
<b>optional additional equipment</b>		illuminated plug with varistor	
<b>current consumption</b>	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
<b>explosion proof</b>			
<b>limit switches</b>		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

type **MK 40 DR**

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

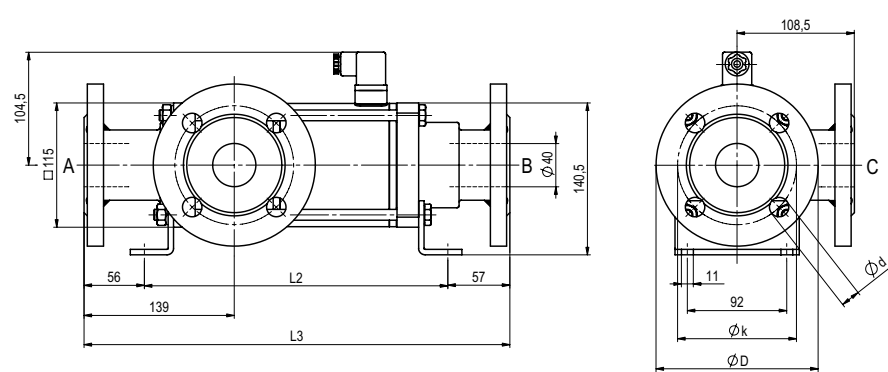


constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	332	281	394
with 1/2 inductive limit switches	373	322	435
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	373	322	435
with mechanical limit switches	373	322	435

flanges PN	DIN	øD	øk	ød
16	2633	150	110	18

type **FK 40 DR**

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



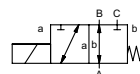
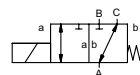
# coaxial valve


## type MK 50 DR FK 50 DR



**3/2 way valve** direct acting  
**pressure range** PN 0-16 bar  
**orifice** DN 50 mm  
**connection** thread/flange  
**function** valve normally closed (A ► B)  
 symbol **NC**

valve normally open (A ► B)  
 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, intersecting switch-over

**body materials** ① 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, CR, EPDM

### details needed

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

general specifications		options
<b>ports</b>	MK threads G 2 FK flanges PN 16	special threads special flanges
<b>function</b>	NC	NO
<b>pressure range</b>	bar 0-16 A ⇌ B max.16 / B ⇌ A max.10 / A ⇌ C max.16 / C ⇌ A max.16	
<b>Kv value</b>	m³/h 28,2	
<b>vacuum</b>	leak rate	< 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>
<b>pressure-vacuum</b>	P <sub>1</sub> ⇌ P <sub>2</sub>	upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>	see pressure range
<b>media</b>	gaseous - liquid - highly viscous - gelatinous - contaminated	
<b>abrasive media</b>		upon request
<b>damping</b>	opening closing	
<b>flow direction</b>	see pressure range	
<b>switching cycles</b>	1/min 40	
<b>switching time</b>	ms opening 400 closing 400	
<b>media temperature</b>	°C DC: -20 to +80 AC: -20 to +80	-20 to +120 -20 to +120
<b>ambient temperature</b>	°C DC: -20 to +80 AC: -20 to +80	
<b>limit switches</b>		inductive
<b>manual override</b>		available
<b>approvals</b>		LR/GL/WAZ
<b>mounting</b>		mounting brackets
<b>weight</b>	kg MK 31,5 FK 38,5	
<b>additional equipment</b>		upon request

 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.

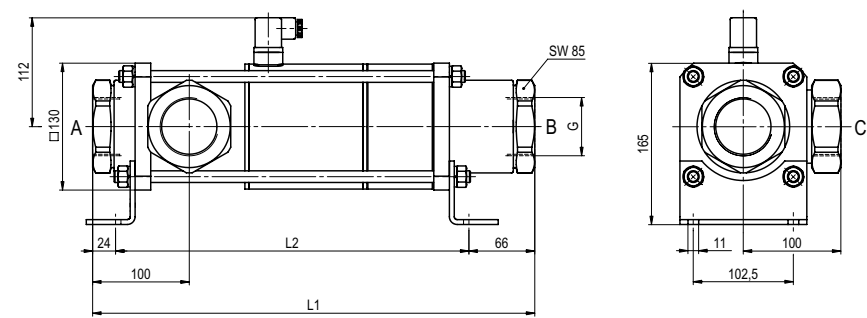
 If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

electrical specifications		options
<b>nominal voltage</b>	U <sub>n</sub> 24 V DC U <sub>n</sub> 230 V 40-60 Hz AC	special voltage upon request special voltage upon request
<b>actuation</b>	DC direct-current magnet AC direct-current magnet with integrated rectifier	above 100°C with separate rectifier
<b>insulation rating</b>	H 180°C	
<b>protection</b>	IP65	
<b>energized duty rating</b>	ED 100%	
<b>connection</b>	plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm	terminal box M16x1,5
<b>optional additional equipment</b>	illuminated plug with varistor	
<b>current consumption</b>	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	
<b>explosion proof</b>		
<b>limit switches</b>	inductive (I) inductive (B)	normally open-PNP normally open-PNP

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

type **MK 50 DR**

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

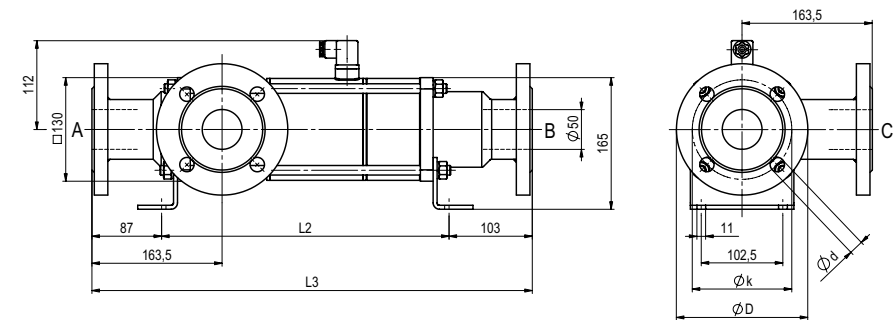


constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	453	363	553
with 1/2 inductive limit switches	453	363	553
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	453	363	553

flanges PN	DIN	øD	øk	ød
16	2633	165	125	18

type **FK 50 DR**

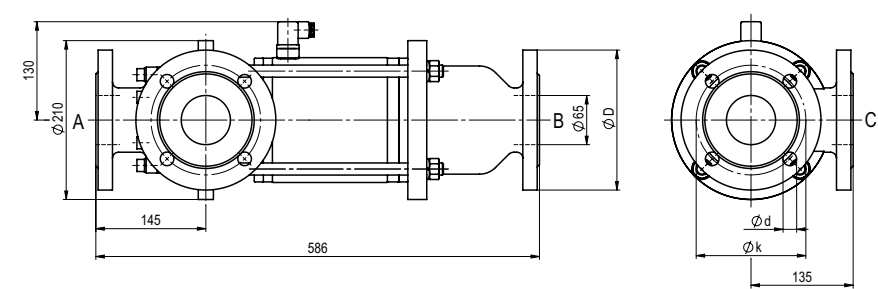
function: **NO**  
open when not energized (A ► B)





type **FK 65 DR**

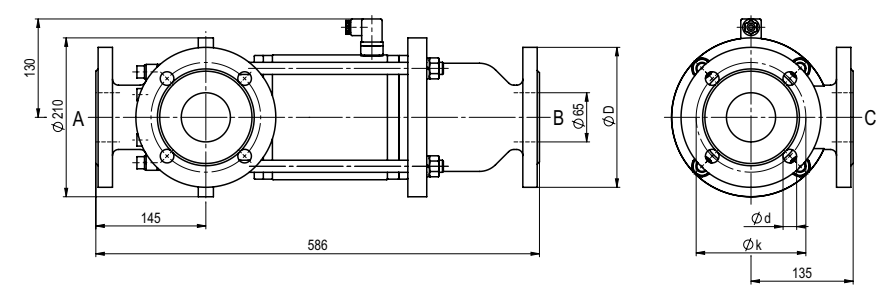
function: **NC**  
closed when not energized (A ► B)



flanges PN	DIN	$\varnothing D$	$\varnothing k$	$\varnothing d$
16	2633	185	145	18

type **FK 65 DR**

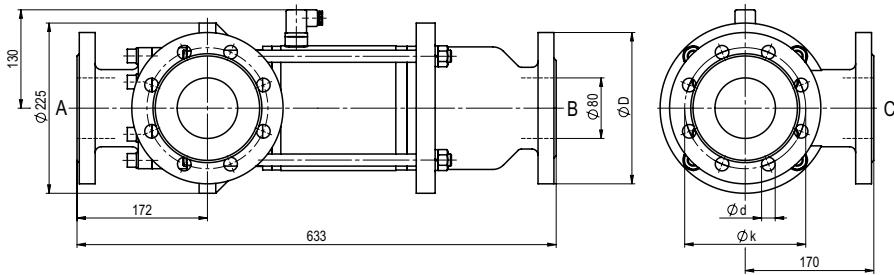
function: **NO**  
open when not energized (A ► B)





type **FK 80 DR**

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



flanges PN	DIN	$\varnothing D$	$\varnothing k$	$\varnothing d$
16	2633	200	160	18

type **FK 80 DR**

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

