

## type MK 10 DR



3/2 way valve direct acting pressure range PN 0-40 bar orifice DN 10 mm connection thread

function valve

normally closed (A ►B) symbol

valve

normally open (A ►B)

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

body materials 1) brass

(5) 3 brass, nickel plated

(4)

valve seat synthetic resin on metal

seal materials NBR

FPM, CR, EPDM

6 stainless steel

#### details needed

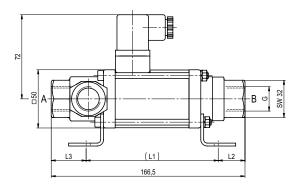
- orifice
- port
- function NC/NO
- operating pressureinlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

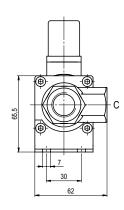
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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.

	genera	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	<del></del> _
		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	P₁⇔ P₂		upon request
back pressure	$P_2 > P_1$	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	-30 to +120
		AC: -10 to +80	-30 to +120
ambient temperature	°C	DC: -10 to +80	
		AC: -10 to +80	
limit switches	-		
manual override	-		
approvals			LR/GL/WAZ
mounting		14/00	mounting brackets
weight	kg	MK 2,2	
additional equipment	-		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	
		with integrated rectifier	
insulation rating	Н	180°C	
protection	IP65	100 0	
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 1,00 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			

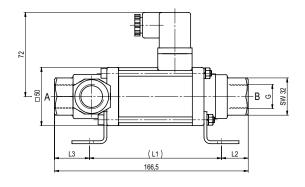
specifications not highlighted are standard specifications highlighted in grey are optional limit switches

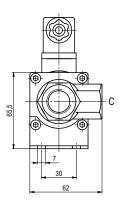




constructive length	L <sub>1</sub>	L2	L <sub>3</sub>
0-16/0-40 bar	113,5	23	30
0-64 bar	121,5	19	26

# type MK 10 DR







## 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

valve

normally open (A ►B)

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

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

body materials 1) brass 2 steel, galvanized

3 brass, nickel plated

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

4 steel, nickel plated valve seat synthetic resin on metal

seal materials NBR

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cu

PTFE, FPM, CR, EPDM

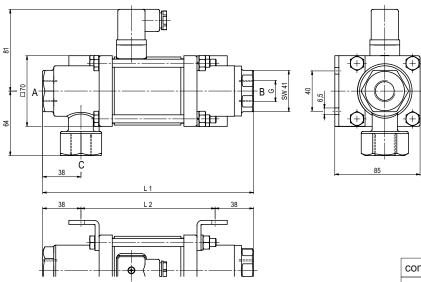
#### details needed

- orifice
- port
- function NC/NO
- operating pressureinlet pressure at A, B or C
- flow 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.

	genera	l specifications	options				
ports	MK	threads G 3/8 - G 3/4	special threads				
	FK	flanges PN 16/40	special flanges				
function		NC	NO				
pressure range	bar	0-16/0-40					
		$A \Rightarrow B \text{ max.40 / } B \Rightarrow A \text{ max.16 / } A \Rightarrow C \text{ max.40 / } C \Rightarrow A \text{ max.40}$					
Kv value	m³/h	4,3					
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>	see pressure range					
media		gaseous - liquid - highly viscous -					
		gelatinous - contaminated					
abrasive media			upon request				
damping	opening						
	closing						
flow direction		see pressure range					
switching cycles	1/min	200					
switching time	ms	opening 80 closing 80					
nedia temperature	°C	DC: -40 to +80	-40 to +160				
·		AC: -40 to +80	-40 to +160				
nbient 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 brackets				
mounting							
mounting weight	ka	MK 4.3 FK 5.9					
weight	electric	MK 4,3 FK 5,9	upon request				
weight	electric	cal specifications	options special voltage upon request				
weight ditional equipment nominal voltage	electric	cal specifications  24 V DC 230 V 40-60 Hz AC	options				
weight ditional equipment	electric Un Un DC	cal specifications  24 V DC  230 V 40-60 Hz AC  direct-current magnet	options special voltage upon request special voltage upon request				
weight ditional equipment nominal voltage	electric	cal specifications  24 V DC 230 V 40-60 Hz AC	options special voltage upon request				
weight ditional equipment nominal voltage actuation	electric Un Un DC	eal specifications  24 V DC  230 V 40-60 Hz AC  direct-current magnet  direct-current magnet	options special voltage upon request special voltage upon request				
weight ditional equipment nominal voltage	electric Un Un DC AC	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier	options special voltage upon request special voltage upon request				
weight ditional equipment nominal voltage actuation insulation rating protection	electric Un Un DC AC	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier	options special voltage upon request special voltage upon request				
weight ditional equipment nominal voltage actuation	electric Un Un DC AC	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C	options special voltage upon request special voltage upon request above 100°C with separate rectifier				
weight ditional equipment nominal voltage actuation insulation rating protection ergized duty rating	electric Un Un DC AC	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current reagnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803	options special voltage upon request special voltage upon request				
weight ditional equipment nominal voltage actuation insulation rating protection ergized duty rating	electric Un Un DC AC	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° /	options special voltage upon request special voltage upon request above 100°C with separate rectifier				
weight ditional equipment nominal voltage actuation insulation rating protection ergized duty rating connection	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5				
weight ditional equipment nominal voltage actuation insulation rating protection ergized duty rating connection optional	electric Un Un DC AC	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA	options special voltage upon request special voltage upon request above 100°C with separate rectifier				
weight ditional equipment nominal voltage actuation insulation rating protection ergized duty rating connection optional ditional equipment	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5				
weight ditional equipment nominal voltage actuation insulation rating protection ergized duty rating connection optional ditional equipment	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor 24 V DC 1,60 A	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5				
weight ditional equipment nominal voltage actuation insulation rating protection ergized duty rating connection optional ditional equipment	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5  connector acc. VDMA				
weight ditional equipment nominal voltage actuation insulation rating protection ergized duty rating connection optional ditional equipment	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor 24 V DC 1,60 A	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5  connector acc. VDMA				
weight ditional equipment  nominal voltage actuation  insulation rating protection ergized duty rating connection  optional ditional equipment rrent consumption	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor 24 V DC 1,60 A	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5  connector acc. VDMA				
weight ditional equipment  nominal voltage actuation insulation rating protection ergized duty rating connection optional ditional equipment	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor 24 V DC 1,60 A	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5  connector acc. VDMA				
weight ditional equipment  nominal voltage actuation  insulation rating protection ergized duty rating connection  optional ditional equipment rrent consumption	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor 24 V DC 1,60 A	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5  connector acc. VDMA				
weight ditional equipment  nominal voltage actuation  insulation rating protection ergized duty rating connection  optional ditional equipment rrent consumption	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor 24 V DC 1,60 A	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5  connector acc. VDMA				
weight ditional equipment  nominal voltage actuation  insulation rating protection ergized duty rating connection  optional ditional equipment rrent consumption  explosion proof	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor 24 V DC 1,60 A 230 V 40-60 Hz AC 0,15 A	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5  connector acc. VDMA  24 V DC 2,30 A 230 V 40-60 Hz AC 0,24 A				
weight ditional equipment  nominal voltage actuation  insulation rating protection ergized duty rating connection  optional ditional equipment rrent consumption	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor 24 V DC 1,60 A 230 V 40-60 Hz AC 0,15 A	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5  connector acc. VDMA  24 V DC 2,30 A 230 V 40-60 Hz AC 0,24 A				
weight ditional equipment  nominal voltage actuation  insulation rating protection ergized duty rating connection  optional ditional equipment rrent consumption  explosion proof	electric Un Un DC AC H IP65 ED	24 V DC 230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm connector acc. DESINA illuminated plug with varistor 24 V DC 1,60 A 230 V 40-60 Hz AC 0,15 A	options special voltage upon request special voltage upon request above 100°C with separate rectifier  terminal box M16x1,5  connector acc. VDMA  24 V DC 2,30 A 230 V 40-60 Hz AC 0,24 A				

specifications not highlighted are standard specifications highlighted in grey are optional

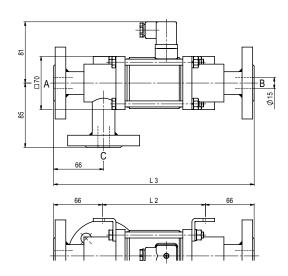


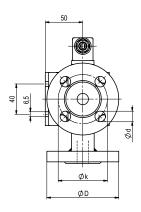
constructive length	L <sub>1</sub>	L2	Lз
standard	209	133	265
with 1/2 inductive limit switches	249	173	305
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	249	173	305
with mechanical limit switches	249	173	305

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)







## 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

valve

normally open (A ►B)



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

body materials 1) brass 2 steel, galvanized

3 brass, nickel plated

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

4 steel, nickel plated valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

#### details needed

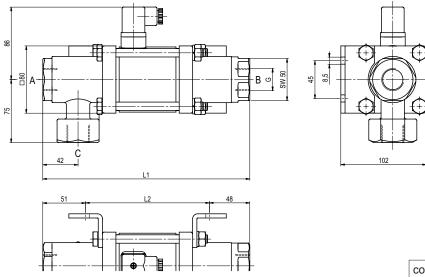
- orifice
- port
- function NC/NO
- operating pressureinlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

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.

ocal illatorialo	INDIX			i ii E, ii ivi, Oit, Ei Divi
	general	specific	ations	options
ports	MK	threads G	3/4 - G 1 1/4	special threads
•	FK	flanges PN	l 16/40	special flanges
function		NC		NO
pressure range	bar	0-16/0-40		
		A ⇒ B max	k.40 / B ⇒ A max.1	6 / A ⇒ C max.40 / C ⇒ A max.40
Kv value	m³/h	6,7		
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>	see pressi	ire range	
media	nedia gaseous - liquid - highly viscous -			us -
		gelatinous	<ul> <li>contaminated</li> </ul>	
abrasive media				upon request
damping	opening			
	closing			
flow direction		see pressu	ure range	
switching cycles	1/min	150		
switching time	ms		10 closing 110	
media temperature	°C	DC: -40 to	+80	-40 to +160
		AC: -40 to		-40 to +160
ambient temperature	°C	DC: -40 to		
		AC: -40 to	+80	
limit switches				inductive/mech. (depend. on temperature)
manual override				available
approvals				LR/GL/WAZ
mounting				mounting brackets
weight	kg	MK 6,0	FK 8,4	
additional equipment				upon request
	electric	al specif	ications	options

	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	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		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

specifications not highlighted are standard specifications highlighted in grey are optional

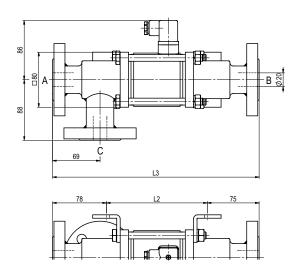


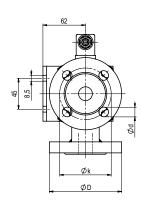
constructive length	L <sub>1</sub>	L2	Lз
standard	247	148	301
with 1/2 inductive limit switches	291	192	345
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	291	192	345
with mechanical limit switches	291	192	345

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)







## 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

valve

normally open (A ►B)



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

body materials 1) brass 2 steel, galvanized

6 stainless steel

options

3 brass, nickel plated

(5) without non-ferr. metals

4 steel, nickel plated valve seat synthetic resin on metal

general specifications

seal materials NBR

PTFE, FPM, CR, EPDM

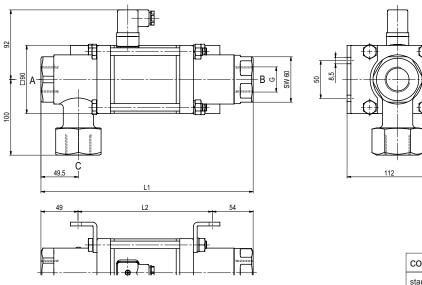
#### details needed

- orifice
- port
- function NC/NO
- operating pressureinlet pressure at A, B or C
- flow 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.

	generai	specifications	options
ports	MK	threads G 1 - G 1 1/2	special threads
porto	FK	flanges PN 16/40	special flanges
function	110	NC	NO NO
pressure range	bar	0-16/0-40	110
pressure range	Dai	A ⇒ B max.40 / B ⇒ A max.16 / A ⇒ 0	C may 40 / C => A may 40
Kv value	m³/h	11.2 B max.40 / B □ A max. 16 / A □ 1	G max.40 / G → A max.40
vacuum	leak rate	11,2	< 10 <sup>-6</sup> mbar•l•s <sup>-1</sup>
	P₁⇔ P₂		
pressure-vacuum			upon request
back pressure media	P <sub>2</sub> > P <sub>1</sub>	see pressure range	
media		gaseous - liquid - highly viscous -	
	_	gelatinous - contaminated	
abrasive media			upon request
damping	opening		
	closing		
flow direction		see pressure range	
switching cycles	1/min	130	
switching time	ms	opening 130 closing 130	
media temperature	°C	DC: -40 to +80	-40 to +160
		AC: -40 to +80	-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 9,2 FK 12,0	<b>3</b>
additional equipment			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	wire diameter 6-8 mm connector acc. DESINA	connector acc. VDMA
optional additional additional	M12x1		connector acc. VDMA
•	M12x1 N-coil	connector acc. DESINA	connector acc. VDMA
additional equipment		connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A	connector acc. VDMA
additional equipment		connector acc. DESINA illuminated plug with varistor	connector acc. VDMA
additional equipment	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A	24 V DC 2,66 A
additional equipment current consumption	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A	
additional equipment	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A	24 V DC 2,66 A
additional equipment current consumption	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A	24 V DC 2,66 A
additional equipment current consumption	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A	24 V DC 2,66 A
additional equipment current consumption	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A	24 V DC 2,66 A
additional equipment current consumption explosion proof	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A	24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A
additional equipment current consumption	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A	24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A normally open-PNP
additional equipment current consumption explosion proof	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A  inductive (I) inductive (B)	24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A  normally open-PNP normally open-PNP
additional equipment current consumption explosion proof	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A	24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A normally open-PNP
additional equipment current consumption explosion proof	N-coil	connector acc. DESINA illuminated plug with varistor 24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A  inductive (I) inductive (B)	24 V DC 2,66 A 230 V 40-60 Hz AC 0,36 A  normally open-PNP normally open-PNP

specifications not highlighted are standard specifications highlighted in grey are optional

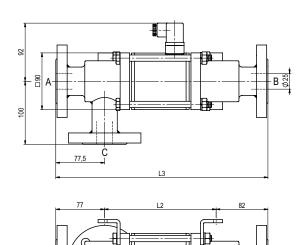


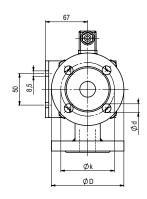
constructive length	L <sub>1</sub>	L2	Lз
standard	281	178	337
with 1/2 inductive limit switches	322	219	378
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	334	231	390
with mechanical limit switches	322	219	378

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)









## 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

valve

normally open (A ►B) symbol

4 steel, nickel plated



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

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

body materials

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

(3)

6 stainless steel

valve seat synthetic resin on metal

seal materials NBR

DTEE EDM OD EDDM

#### details needed

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

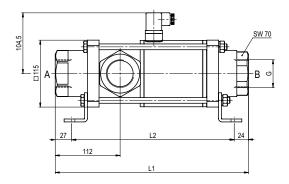
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

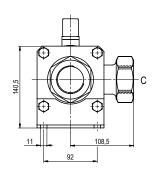
If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

seai materiais	NBK		PTFE, FPM, CR, EPDM
	general	specifications	options
ports	MK	threads G 1 1/4 - G 1 1/2	special threads
	FK	flanges PN 16/40	special flanges
function		NC	NO
pressure range	bar	0-16/0-40	
		$A \Rightarrow B \text{ max.40 } / B \Rightarrow A \text{ max.16 } / A \Rightarrow C$	max.40 / C   A max.16
Kv value	m³/h	14,1 [A ⇒ B] 8,9 [A ⇒ C]	
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>	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - contaminated	
abrasive media			upon request
damping	opening		
	closing		
flow direction		see pressure range	
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 18,0 FK 22,0	
additional equipment			upon request
	electrica	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 180°C IP65 protection energized duty rating plug acc. DIN EN 175301-803 connection terminal box M16x1,5 form A, 4 positions x 90° / wire diameter 6-8 mm optional illuminated plug with varistor 24 V DC 2,07 A additional equipment current consumption N-coil 230 V 40-60 Hz AC 0,28 A DC 327A H-coil 230 V 40-60 Hz AC 0,44 A explosion proof limit switches normally open-PNP inductive (I normally open-PNP inductive (B) single pole double throw-SPDT

specifications not highlighted are standard specifications highlighted in grey are optional



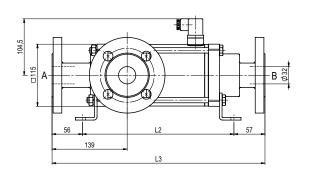


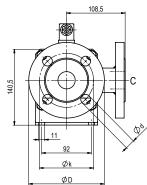
constructive length	L <sub>1</sub>	L2	Lз
standard	332	281	394
with 1/2 inductive limit switches	373	322	435
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	373	322	435
with mechanical limit switches	373	322	435

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)









## 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

valve

normally open (A ►B)



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

body materials

2 steel, galvanized

(3)

(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

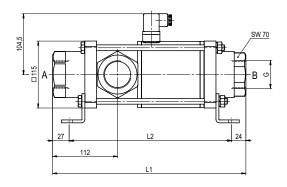
- orifice
- port
- function NC/NO
- operating pressureinlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

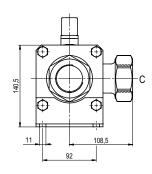
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

3cai illateriai3	NDIX			I II L, I I IVI, OIX, LI DIVI
	general	specification	s	options
ports	MK	threads G 1 1/2 - 0	3 2	special threads
•	FK	flanges PN 16		special flanges
function		NC		NO
pressure range	bar	0-16		
		A ⇒ B max.16 / B	A max.16 / A ⇒ C	max.16 / C   A max.16
Kv value	m³/h	18,4 [A ⇒ B]	11,5 [A ⇔ C]	
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>	see pressure rang		
media		gaseous - liquid - l		
		gelatinous - contar	minated	
abrasive media				upon request
damping	opening			
	closing			
flow direction		see pressure rang	e	
switching cycles	1/min	90		
switching time	ms	opening 520 clos	ing 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		MI( 10 E EI( 0	0.0	mounting brackets
weight	kg	MK 18,5 FK 2	3,0	
additional equipment				upon request
	electric	al specification	ns	options
nominal voltage	Un	24 V 💢	C	special voltage upon request
_	Un	230 V 40-60 Hz A	AC .	special voltage 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	above 100°C with separate rectifier
		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			
dditional 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			
			II DND
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

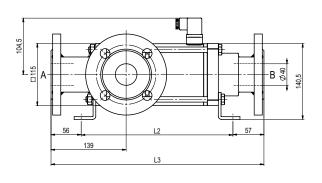


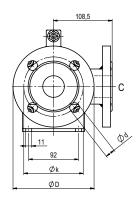


constructive length	L <sub>1</sub>	L2	Lз
standard	332	281	394
with 1/2 inductive limit switches	373	322	435
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	373	322	435
with mechanical limit switches	373	322	435

flanges PN	DIN	øD	øk	ød
16	2633	150	110	18

# type FK 40 DR







## 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

valve

normally open (A ►B)



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

body materials

(3)

4 steel, nickel plated

valve seat synthetic resin on metal seal materials NBR

PTFE, FPM, CR, EPDM

2 steel, galvanized

6 stainless steel

(5) without non-ferr. metals

#### details needed

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

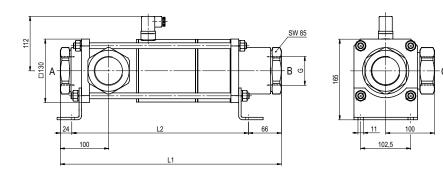
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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.

	general	specifica	tions	options
ports	MK	threads G 2		special threads
	FK	flanges PN 1	6	special flanges
function		NC		NO
pressure range	bar	0-16		
		A ⇒ B max.1	6 / B ⇒ A max.10 / A	\ ⇒ C max.16 / C ⇒ A max.16
Kv value	m³/h	28,2		
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>	see pressure	range	
media		gaseous - liq	uid - highly viscous -	•
		gelatinous -	contaminated	
abrasive media				upon request
damping	opening			
	closing			
flow direction		see pressure	range	
switching cycles	1/min	40		
switching time	ms		closing 400	
media temperature	°C	DC: -20 to +8		-20 to +120
		AC: -20 to +8		-20 to +120
ambient temperature	°C	DC: -20 to +8		
		AC: -20 to +8	30	
limit switches				inductive
manual override				available
approvals				LR/GL/WAZ
mounting				mounting brackets
weight	kg	MK 31,5	FK 38,5	
additional equipment				upon request
	electrica	al specific	ations	options
nominal voltage	Un	24 V	DC	special voltage 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			
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			
		inductive (I)	normally open-PNP
limit switches			

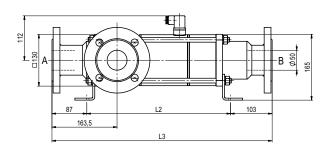
specifications not highlighted are standard specifications highlighted in grey are optional

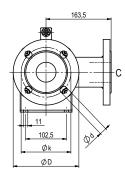


constructive length	L <sub>1</sub>	L2	Lз
standard	453	363	553
with 1/2 inductive limit switches	453	363	553
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	453	363	553

flanges PN	DIN	øD	øk	ød
16	2633	165	125	18

# type FK 50 DR







## type FK 65 DR



3/2 way valve direct acting pressure range PN 0-16 bar orifice DN 65 mm connection flange

function valve

normally closed (A ►B) symbol

valve

normally open (A ►B)

Above stated body materials refer to the valve port connections that get in contact with the media only! design pressure balanced, with spring return, intersecting switch-over 2 steel, galvanized

body materials (1) aluminium

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

valve seat synthetic resin on metal

PTFE, FPM, EPDM seal materials NBR

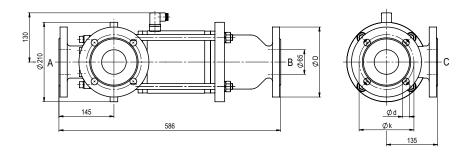
#### details needed

- orifice
- port
- function NC/NO
- operating pressureinlet pressure at A, B or C
- flow 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.

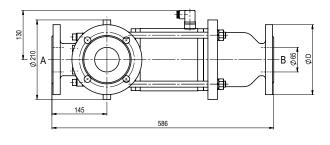
	genera	l specifications	options
ports	FK	flanges PN 16	special flanges
function		NC	NO
pressure range	bar	0-16	
Kv value	m³/h	$A \Rightarrow B \text{ max.} 16 / B \Rightarrow A \text{ max.} 5 / A \Rightarrow$	C max.16 / C   A max.16
vacuum	leak rate	40,0	< 10 <sup>-4</sup> mbar•l•s <sup>-1</sup>
essure-vacuum	P₁⇔ P₂		upon request
back pressure	P <sub>2</sub> > P <sub>1</sub>	see pressure range	ироптечисог
media		gaseous - liquid - highly viscous -	
-11		gelatinous - contaminated	
abrasive media damping	opening		upon request
damping	closing	-	
flow direction	closing	see pressure range	
witching cycles	1/min	20	
switching time	ms	opening 600 closing 800	
dia temperature	°C	DC: -20 to +80	
po	•	AC: -20 to +80	
ent temperature	°C	DC: -20 to +80	
	-	AC: -20 to +80	
limit switches		20 10 100	inductive
nanual override	-		
approvals			LR/GL/WAZ
mounting			
weight	kg	FK 47,6	
nal equipment	9		upon request
ominal voltage	Un	24 V DC	special voltage upon request
	Un	230 V 40-60 Hz AC	special voltage upon reques
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	
sculation rating	Н	180°C	
nsulation rating protection	IP65	100 C	
zed duty rating	ED	100%	
connection	בט	plug acc. DIN EN 175301-803	terminal box M16x1,5
connection		form A, 4 positions x 90° /	CITIIIIai DOX IVITOX 1,3
		wire diameter 6-8 mm	
optional		Calamotor Comm	
onal equipment		illuminated plug with varistor	
nt consumption	N-coil	24 V DC 4,40 A	
		230 V 40-60 Hz AC 0,65 A	
	H-coil		220 1/ 40 60 11- 40 0 70 4
xplosion proof			230 V 40-60 Hz AC 0,79 A
Aprodion proof			
		inductive (I)	normally open-PNP
limit switches			
limit switches		inductive (B)	normally open-PNP

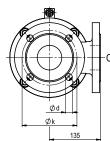
specifications not highlighted are standard specifications highlighted in grey are optional



flanges PN	DIN	øD	øk	ød
16	2633	185	145	18

# type FK 65 DR







## type FK 80 DR



3/2 way valve direct acting pressure range PN 0-16 bar orifice DN 80 mm connection flange

function valve

normally closed (A ►B)

symbol

valve normally open (A ►B)

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

body materials (1) aluminium 2 steel, galvanized (5)

4 steel, nickel plated 6 stainless steel

valve seat synthetic resin on metal

(3)

PTFE, FPM, EPDM seal materials NBR

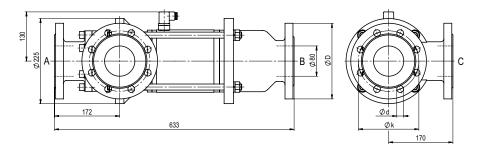
#### details needed

- orifice
- port
- function NC/NO
- operating pressureinlet pressure at A, B or C
- flow 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.

	general specifications		options	
ports	FK	flanges PN 16	special flanges	
function		NC	NO	
pressure range	bar	0-16		
Kv value	m³/h	A ⇒ B max.16 / B ⇒ A max. 5 / A 55,0	⇒ C max.16 / C ⇒ A max.16	
vacuum	leak rate	55,0	< 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>	see pressure range	apon roquest	
media		gaseous - liquid - highly viscous - gelatinous - contaminated		
abrasive media		3	upon request	
damping	opening			
	closing			
flow direction		see pressure range		
switching cycles	1/min	20		
switching time	ms	opening 600 closing 800		
media temperature	°C	DC: -20 to +80		
	90	AC: -20 to +80		
ambient temperature	°C	DC: -20 to +80		
limatete-t-		AC: -20 to +80	in desphisso	
limit switches			inductive	
manual override			LR/GL/WAZ	
approvals			LIVGL/WAZ	
mounting weight	kg	FK 48,8		
idditional equipment	Ng	1 17 70,0	upon request	
nominal voltage				
nominal voltage	Un	24 V DC	special voltage upon request	
-	Un	230 V 40-60 Hz AC		
actuation	Un DC	230 V 40-60 Hz AC direct-current magnet		
-	Un	230 V 40-60 Hz AC	special voltage upon requesi special voltage upon requesi	
actuation	Un DC AC	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier		
actuation	Un DC AC	230 V 40-60 Hz AC direct-current magnet direct-current magnet		
actuation insulation rating protection	Un DC AC	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier		
actuation	Un DC AC	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier		
actuation insulation rating protection nergized duty rating	Un DC AC	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier 180°C	special voltage upon reques	
actuation insulation rating protection nergized duty rating	Un DC AC	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803	special voltage upon request	
actuation insulation rating protection nergized duty rating	Un DC AC	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° /	special voltage upon request	
actuation  insulation rating protection nergized duty rating connection  optional additional equipment	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor	special voltage upon request	
actuation  insulation rating protection nergized duty rating connection  optional additional equipment	Un DC AC	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor 24 V DC 4,40 A	special voltage upon request	
actuation  insulation rating protection nergized duty rating connection  optional additional equipment	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor	special voltage upon request	
actuation  insulation rating protection nergized duty rating connection	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor 24 V DC 4,40 A	special voltage upon request	
actuation  insulation rating protection nergized duty rating connection  optional dditional equipment current consumption	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor 24 V DC 4,40 A	special voltage upon request	
actuation  insulation rating protection nergized duty rating connection  optional dditional equipment	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor 24 V DC 4,40 A	special voltage upon request	
actuation  insulation rating protection nergized duty rating connection  optional dditional equipment current consumption	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor 24 V DC 4,40 A	special voltage upon request	
actuation  insulation rating protection nergized duty rating connection  optional additional equipment current consumption	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor 24 V DC 4,40 A	special voltage upon request	
actuation  insulation rating protection prograd duty rating connection  optional additional equipment current consumption explosion proof	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor 24 V DC 4,40 A 230 V 40-60 Hz AC 0,65 A	terminal box M16x1,5	
actuation  insulation rating protection nergized duty rating connection  optional additional equipment current consumption	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm illuminated plug with varistor 24 V DC 4,40 A 230 V 40-60 Hz AC 0,65 A	terminal box M16x1,5  230 V 40-60 Hz AC 0,79 A	
actuation  insulation rating protection prograd duty rating connection  optional additional equipment current consumption explosion proof	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm  illuminated plug with varistor 24 V DC 4,40 A 230 V 40-60 Hz AC 0,65 A	terminal box M16x1,5	
actuation  insulation rating protection prograd duty rating connection  optional additional equipment current consumption explosion proof	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm illuminated plug with varistor 24 V DC 4,40 A 230 V 40-60 Hz AC 0,65 A	terminal box M16x1,5  230 V 40-60 Hz AC 0,79 A	
actuation  insulation rating protection prograd duty rating connection  optional additional equipment current consumption explosion proof	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm illuminated plug with varistor 24 V DC 4,40 A 230 V 40-60 Hz AC 0,65 A	terminal box M16x1,5  230 V 40-60 Hz AC 0,79 A	
actuation  insulation rating protection prograd duty rating connection  optional additional equipment current consumption explosion proof	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm illuminated plug with varistor 24 V DC 4,40 A 230 V 40-60 Hz AC 0,65 A	terminal box M16x1,5  230 V 40-60 Hz AC 0,79 A	
actuation  insulation rating protection nergized duty rating connection  optional dditional equipment current consumption  explosion proof	Un DC AC H IP65 ED	230 V 40-60 Hz AC direct-current magnet direct-current magnet with integrated rectifier  180°C  100% plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm illuminated plug with varistor 24 V DC 4,40 A 230 V 40-60 Hz AC 0,65 A	terminal box M16x1,5  230 V 40-60 Hz AC 0,79 A	

specifications not highlighted are standard specifications highlighted in grey are optional



flanges PN	DIN	øD	øk	ød
16	2633	200	160	18

# type FK 80 DR

