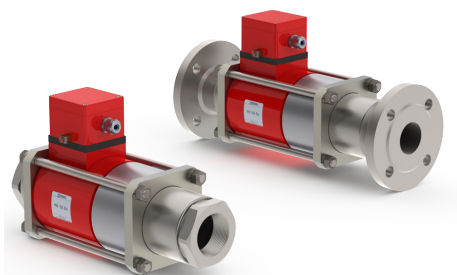
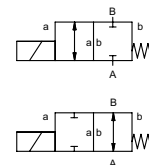


coaxial valve

 type **MK 50 Ex**
FK 50 Ex


2/2 way valve
pressure range PN 0-16 bar
orifice DN 50 mm
connection thread/flange
function valve
 normally closed
 symbol **NC**
 valve
 normally open
 symbol **NO**



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

design pressure balanced, with spring return
body materials ① brass ② steel galvanized
 ③ brass, nickel plated ⑤ without non-ferr. Metals
 ④ steel, nickel plated ⑥ stainless steel

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

details needed

- 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 ⇄ P ₂		upon request
	P ₂ > P ₁		available (max. 10 bar)
back pressure	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 +40	
		AC: -20 to +40	
ambient temperature	°C	DC: -20 to +40	
		AC: -20 to +40	
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	DC 24 V	special voltage upon request
	U _n	AC 230 V 40-60 Hz	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet with separate rectifier outside of the explosion-proof area	sand sealed rectifier
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection	M16x1,5	terminal box	
optional additional equipment			
current consumption	U _n	V-DC 24 210	48 98 110 220
	I _n	A 2,80 0,33	1,48 0,72 0,57 0,32
explosion proof	II 2 G Ex mb e II T4 II 2 D Ex tD A21 IP65 T130 °C PTB 03 ATEX 2056 X		
limit switches	inductive NAMUR		circuit amplifier

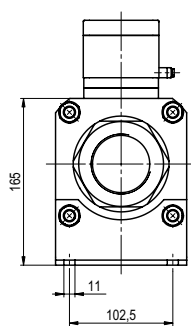
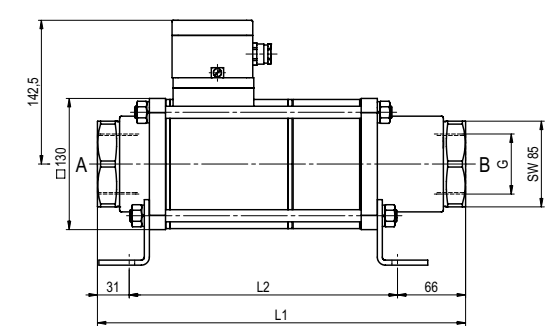
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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 50 Ex**

function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	365	268	438
with inductive limit switches	365	268	438
with manual override / inductive limit switches	365	268	438

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	165	125	18

type **FK 50 Ex**

function: **NO**
open when not energized

