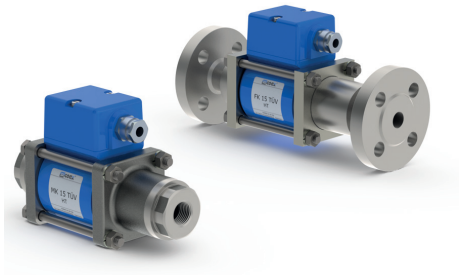
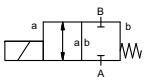
coax® data sheet - coaxial valve

type MK 15 TÜV HT
FK 15 TÜV HT

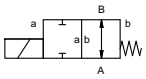
03/2022



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



	valve normally open symbol **NO**



operating principle	pressure balanced, with spring return
body material	Ⓣ TÜV (stainless steel)

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

valve seat	synthetic materials on metal
seal materials	FPM, PTFE

details needed

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

general specifications		**options**
ports	MK	threads G 3/8 - G 3/4
	FK	flanges PN 40
function		NC **NO**
pressure range	bar	0-40
Kv value	m³/h	6,0
vacuum	leak rate	
pressure-vacuum	$P_1 \Leftrightarrow P_2$	
back pressure	$P_2 > P_1$	available (max. 16 bar)
media		liquid fuels - fuel oil EL, M, S and oils not acc. to DIN 51603, e.g. animal fat
abrasive media		
damping	opening	
	closing	
flow direction	A ⇨ B	as marked
switching cycles	1/min	200
switching time	ms	opening 80
		closing 80
media temperature	°C	DC: -10 to +160
		AC: -10 to +160
ambient temperature	°C	DC: -10 to +60
		AC: -10 to +60
limit switches		mechanical
manual override		
approvals	TÜV	DIN EN ISO 23553-1
mounting		mounting brackets
weight	kg	MK 3,8 FK 5,0
additional equipment		

⚠ 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.

electrical specifications		**options**
nominal voltage	U_n	DC 24 V +5%/-10%
	U_n	AC 230 V +5%/-10% 40-60 Hz
actuation	DC	direct-current magnet
	AC	direct-current magnet with separate rectifier
insulating rating	H	180°C
protection	IP65	
energized duty rating	ED	100%
connection	M16x1,5	terminal box
optional		
additional equipment		
current consumption	N-coil	
	H-coil	DC 24 V 2,29 A
		AC 230 V 40-60 Hz 0,24 A
explosion proof		
limit switches		mechanical single pole double throw-SPDT

⚠ 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. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

specifications not highlighted are standard
specifications highlighted in grey are optional

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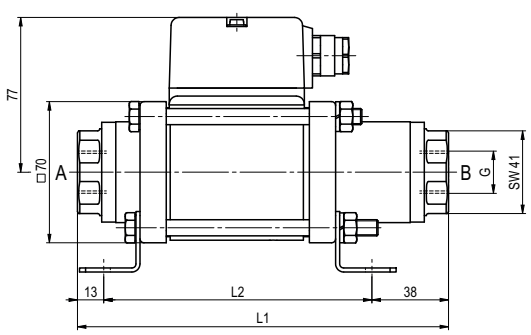
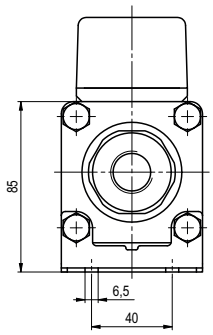
coax® data sheet - coaxial valve

type MK 15 TÜV HT
FK 15 TÜV HT

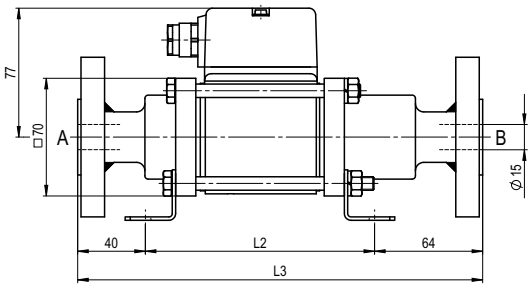
function: **NC**
closed when not energized

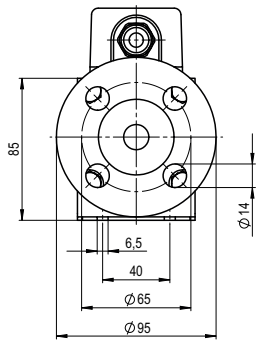




constructive length	L1	L2	L3
standard	184	133	241
with mechanical limit switches	204	153	261

function: **NO**
open when not energized





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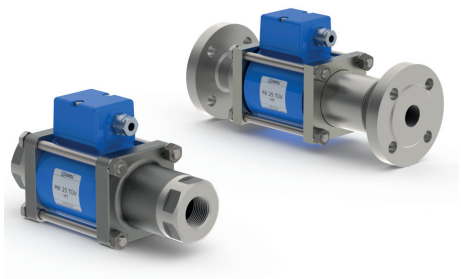
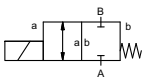
coax® data sheet - coaxial valve

type MK 25 TÜV HT
FK 25 TÜV HT

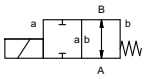
03/2022



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



valve
normally open
symbol **NO**



operating principle	pressure balanced, with spring return
body material	Ⓣ TÜV (stainless steel)

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

valve seat	synthetic materials on metal
seal materials	FPM, PTFE

details needed

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

general specifications		**options**
ports	MK	threads G 1 - G 1 1/2
	FK	flanges PN 40
function		NC — NO
pressure range	bar	0-40
Kv value	m³/h	13,0
vacuum		leak rate
pressure-vacuum		$P_1 \Leftrightarrow P_2$
back pressure		$P_2 > P_1$ — available (max. 16 bar)
media		liquid fuels - fuel oil EL, M, S and oils not acc. to DIN 51603, e.g. animal fat
abrasive media		
damping		opening closing
flow direction		A ⇨ B — as marked
switching cycles	1/min	130
switching time	ms	opening 130 closing 130
media temperature	°C	DC: -10 to +160 AC: -10 to +160
ambient temperature	°C	DC: -10 to +60 AC: -10 to +60
limit switches		mechanical
manual override		
approvals	TÜV	DIN EN ISO 23553-1
mounting		mounting brackets
weight	kg	MK 8,0 FK 10,5
additional equipment		

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electrical specifications		**options**
nominal voltage	U_n	DC 24 V +5%/-10%
	U_n	AC 230 V +5%/-10% 40-60 Hz
actuation	DC	direct-current magnet
	AC	direct-current magnet with separate rectifier
insulating rating	H	180°C
protection	IP65	
energized duty rating	ED	100%
connection	M16x1,5	terminal box
optional		
additional equipment		
current consumption	N-coil	
	H-coil	DC 24 V 2,70 A AC 230 V 40-60 Hz 0,36 A
explosion proof		
limit switches		mechanical — single pole double throw-SPDT

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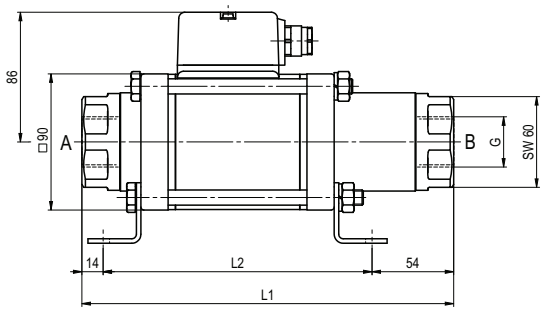
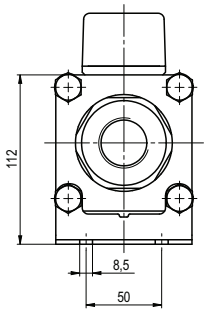
coax® data sheet - coaxial valve

type MK 25 TÜV HT
FK 25 TÜV HT

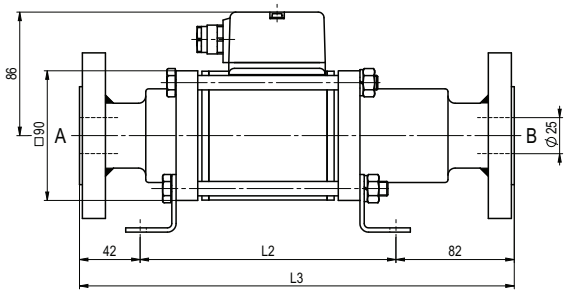
function: **NC**
closed when not energized

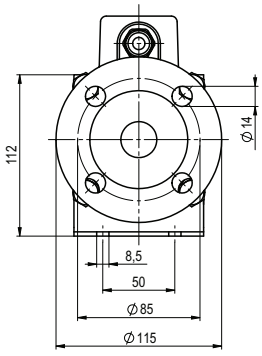




constructive length	L1	L2	L3
standard	246	178	302
with mechanical limit switches	287	219	343

function: **NO**
open when not energized





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