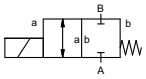
coax® data sheet - coaxial valve

type MK 15 DVGW
FK 15 DVGW

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**



operating principle	pressure balanced, with spring return
body material	Ⓓ DVGW (steel, nickel plated)

⚠ 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
- 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	
pressure range	bar	0-40	
Kv value	m³/h	6,0	
vacuum	leak rate		
pressure-vacuum	$P_1 \Leftrightarrow P_2$		
back pressure	$P_2 > P_1$		
media		combustible gases according G 260	
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: -15 to +80	
		AC: -15 to +80	
ambient temperature	°C	DC: -15 to +80	
		AC: -15 to +80	
limit switches			inductive
manual override			available
approvals	DVGW	DIN EN 16678:2016 + DIN EN 13611:2011	
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%	special voltage
	U_n	AC 230 V +5%/-10% 40-60 Hz	special voltage
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm	terminal box M16x1,5
optional			
additional equipment		illuminated plug with varistor	
current consumption	N-coil		
	H-coil	DC 24 V 2,29 A	
		AC 230 V 40-60 Hz 0,24 A	
explosion proof (0-16 bar)	E Ex e II T4	nominal voltage Un V-DC	24 48 98 110 200 220
		nominal current In A	1,13 0,59 0,30 0,26 0,15 0,13
		media temperature °C	-15 to +40
		ambient temperature °C	-15 to +40
		AC connection	with separate rectifier
limit switches		inductive (B)	normally open-PNP
		Namur	circuit amplifier

⚠ 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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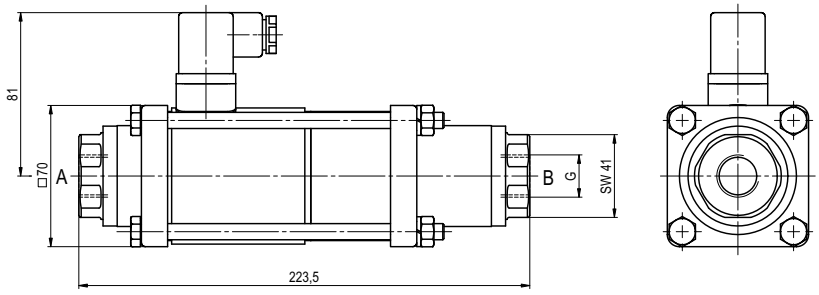
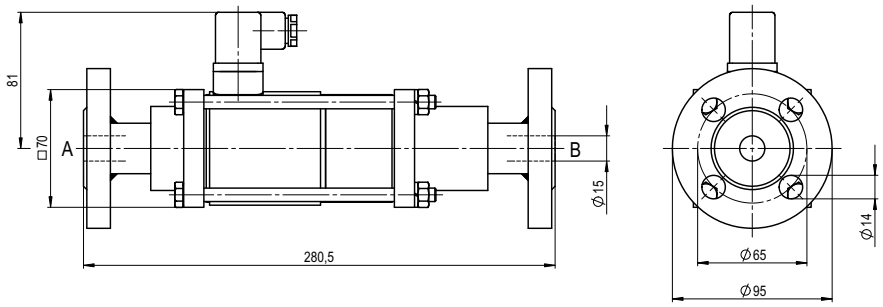
coax® data sheet - coaxial valve

type MK 15 DVGW
FK 15 DVGW

function: **NC**
closed when not energized



function: **NC**
closed when not energized

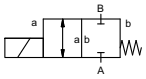


coax® data sheet - coaxial valve

type MK 20 DVGW
FK 20 DVGW

03/2022

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



operating principle	pressure balanced, with spring return
body material	Ⓓ DVGW (steel, nickel plated)

⚠ 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
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

general specifications			**options**
ports	MK	threads G 3/4 - G 1 1/4	
	FK	flanges PN 40	
function		NC	
pressure range	bar	0-40	
Kv value	m^3/h	8,4	
vacuum	leak rate		
pressure-vacuum	$P_1 \Leftrightarrow P_2$		
back pressure	$P_2 > P_1$		
media		combustible gases according G 260	
abrasive media			
damping	opening		
	closing		
flow direction	A ⇨ B	as marked	
switching cycles	1/min	150	
switching time	ms	opening 110	
		closing 110	
media temperature	°C	DC: -15 to +80	
		AC: -15 to +80	
ambient temperature	°C	DC: -15 to +80	
		AC: -15 to +80	
limit switches			inductive
manual override			available
approvals	DVGW	DIN EN 16678:2016 + DIN EN 13611:2011	
mounting			mounting brackets
weight	kg	MK 5,5 FK 7,5	
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%	special voltage
	U_n	AC 230 V +5%/-10% 40-60 Hz	special voltage
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm	terminal box M16x1,5
optional			
additional equipment		illuminated plug with varistor	
current consumption	N-coil		
	H-coil	DC 24 V 2,64 A	
		AC 230 V 40-60 Hz 0,30 A	
explosion proof (0-16 bar)	E Ex e II T4	nominal voltage Un V-DC	24 48 98 110 200 220
		nominal current In A	1,21 0,66 0,29 0,24 0,14 0,12
		media temperature °C	-15 to +40
		ambient temperature °C	-15 to +40
		AC connection	with separate rectifier
limit switches		inductive (B)	normally open-PNP
		Namur	circuit amplifier

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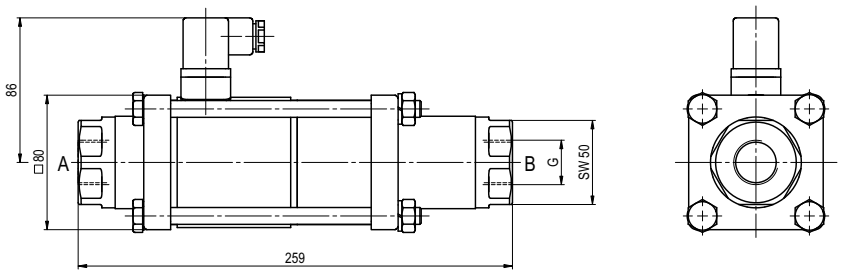
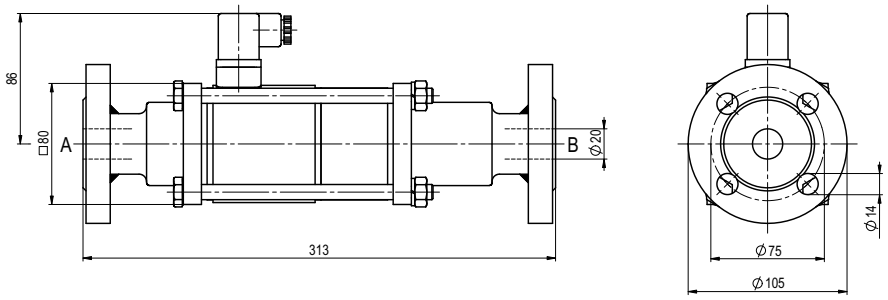
coax® data sheet - coaxial valve

type MK 20 DVGW
FK 20 DVGW

function: **NC**
closed when not energized



function: **NC**
closed when not energized

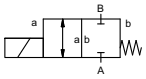


coax® data sheet - coaxial valve

type MK 25 DVGW
FK 25 DVGW

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**



operating principle	pressure balanced, with spring return
body material	Ⓓ DVGW (steel, nickel plated)

⚠ 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
- 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	
pressure range	bar	0-40	
Kv value	m^3/h	13,0	
vacuum	leak rate		
pressure-vacuum	$P_1 \Leftrightarrow P_2$		
back pressure	$P_2 > P_1$		
media		combustible gases according G 260	
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: -15 to +80	
		AC: -15 to +80	
ambient temperature	°C	DC: -15 to +80	
		AC: -15 to +80	
limit switches			inductive
manual override			available
approvals	DVGW	DIN EN 16678:2016 + DIN EN 13611:2011	
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%	special voltage
	U_n	AC 230 V +5%/-10% 40-60 Hz	special voltage
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm	terminal box M16x1,5
optional			
additional equipment		illuminated plug with varistor	
current consumption	N-coil		
	H-coil	DC 24 V 2,96 A	
		AC 230 V 40-60 Hz 0,33 A	
explosion proof (0-16 bar)	E Ex e II T4	nominal voltage Un V-DC	24 48 98 110 200 220
		nominal current In A	1,42 0,73 0,37 0,35 0,17 0,16
		media temperature °C	-15 to +40
		ambient temperature °C	-15 to +40
		AC connection	with separate rectifier
limit switches		inductive (B)	normally open-PNP
		Namur	circuit amplifier

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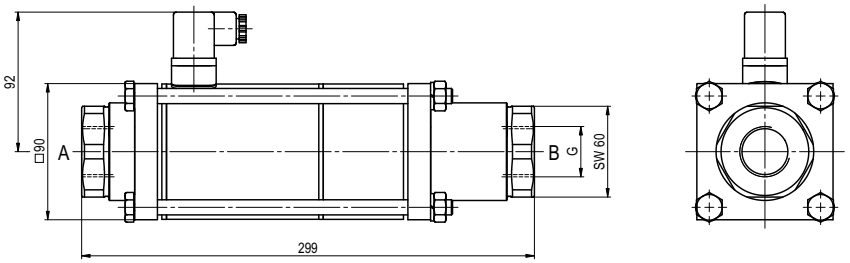
coax® data sheet - coaxial valve

type MK 25 DVGW
FK 25 DVGW

function: **NC**
closed when not energized



function: **NC**
closed when not energized