

# 2/2-WAY SOLENOID VALVE

## TYPE 12



FAUS Certified coils

O<sub>2</sub> oxygene applications



### DESCRIPTION

Valve type 12 is a 2/2-way direct acting solenoid valve for general applications with gases and liquids and for applications with a limited space available.

### CONSTRUCTION

Body material	brass
Internal parts	stainless steel
Sealing material	NBR, EPDM, FPM
Voltages	24 V DC, 24 V 50Hz, 230 V 50Hz
Connections	M5

### ON REQUEST

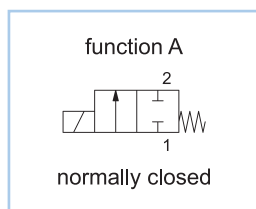
Valve for oxygene applications  
Non-standard coil voltages  
Higher ambient temperature range

### SWITCHING PRESSURE

Orifice in mm	Normally closed in bar
1,0	25,0
1,2	20,0
1,5	10,0
1,8	6,0
2,0	5,0

See details on the website

### VARIANTS



## DETAILED INFORMATION

General	
type of construction	2/2-way poppet valve, normally closed NC, coil may be positioned at 0° and 180°
operation	electrically
ports	M5
ambient temperature	-20°C to +50°C, higher acceptable ambient temperature range on request
fluid temperature	dependent on sealing material and coil
viscosity	max. 21 mm <sup>2</sup> /s (cst)
material	body and plunger tube: brass internal parts: stainless steel sealing: see type selection
mounting	2 fixing holes for screws M2.5 or threads M3
installation	in any position, preferable vertically fixed solenoid coil
unit of supply	without connector according to DIN EN 175301-803 (DIN 43650), type C

Electrical	
voltage	DC voltage or AC voltage
standard voltages	24 V DC, 24 V 50Hz, 230 V 50Hz
non-standard voltage on request	12 V DC, 110 V 50Hz
acceptable voltage tolerance	±10%
power consumption	see specifications at solenoid coils
coil temperature classification	temperature class F (155°C), winding & coil E3 temperature class H (180°C)
duty cycle	100%, continuous operation
protection class	IP65 according DIN EN 60529 (DIN 40050) with correctly mounted connector

Pneumatic – Hydraulic	
fluid	all liquids and gases, non-aggressive to the used material
max. valve body pressure	PN 40
response time	8 – 15 ms
operating frequency	max. 1800 / min
weight	approx. 60 g

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CE |  US Certified coils | O<sub>2</sub> oxygene applications

### CONFIGURATION & PRESSURE RANGE

Coil power consumption at 20°C			
coil type	inrush power 50Hz in VA	rated power 50Hz in VA	power DC in W
B1CA	3,3	2,8	2,65

Sealing material	Code	Fluid temperature	Applicable for
NBR (Perbunan)	B	-10°C to 80°C	neutral gases and liquids
EPDM	E	-10°C to 130°C	hot water, steam, not for oil and grease
FPM	V	-10°C to 130°C	oil, petrol, oxygen

### NORMALLY CLOSED VALVES

Type 12A, normally closed					
type (order-no.)	NW DN in mm	ports	maximum differential pressure in bar		kv-value in m <sup>3</sup> /h
			coil		
			50Hz	DC	
12A-0.10-	1,0	M5	25,0	16,0	0,036
12A-0.12-	1,2	M5	20,0	12,0	0,044
12A-0.15-	1,5	M5	10,0	5,0	0,054
12A-0.18-	1,8	M5	6,0	2,8	0,070
12A-0.20-	2,0	M5	5,0	2,5	0,085

## ORDER CODE

Type 12A, normally closed											
order code	12	A	-	0	V	15	-	A	B1CA	02450	
Code decoding											
type	type 12, body and plunger tube: brass										
function	A = normally closed										
ports	0 = M5										
seal material	B = NBR (Perbunan), E = EPDM, V = FPM										
nominal size seat	10 = 1,0 mm, 12 = 1,2 mm, 15 = 1,5 mm, 18 = 1,8 mm, 20 = 2,0 mm										
short circuit ring	A = copper short circuit ring, X = without short circuit ring										
coil type	connection according to DIN EN 175301-803 (DIN 43650), type C, others see coil data sheet										
supply voltage	always 5-digits, see code for standard voltage										

## DIMENSIONS

