

2/2-WAY SOLENOID VALVE

TYPE 31



UL US Certified coils

O₂ oxygene applications



DESCRIPTION

Valve type 31 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	stainless steel
Internal parts	stainless steel
Sealing material	NBR, EPDM, FPM
Voltages	24 V DC, 24 V 50Hz, 230 V 50Hz
Connections	M5

ON REQUEST

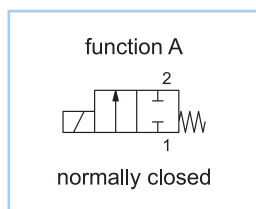
Valve for oxygene applications
Non-standard coil voltages
Higher ambient temperature range

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 ² /s (cst)
material	body and plunger tube: AISI 303 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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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 31A, normally closed					
type (order-no.)	NW DN in mm	ports	maximum differential pressure in bar		kv-value in m ³ /h
			coil B1CA		
			50Hz	DC	
31A-0.10-	1,0	M5	25,0	16,0	0,036
31A-0.12-	1,2	M5	20,0	12,0	0,044
31A-0.15-	1,5	M5	10,0	5,0	0,054
31A-0.18-	1,8	M5	6,0	2,8	0,070
31A-0.20-	2,0	M5	5,0	2,5	0,085

ORDER CODE

Type 31A, normally closed										
order code	31	A	-	0	V	15	-	A	B1CA	02450
Code decoding										
type	type 31, body and parts in contact with medium: stainless steel									
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

