

2/2-Way solenoid valve - pilot-operated
Type SL223

CE | UK CA | O₂ oxygene applications



DESCRIPTION

Valve type 63 is a 2/2-way pilot operated piston solenoid valve for high pressure applications with gases and liquids. A minimum pressure differential is required for operation. The main sealing is out of PTFE.

CONSTRUCTION

Body material	stainless steel
Internal parts	stainless steel
Sealing	PTFE + FPM, optional PTFE + EPDM installation into fixed piping system
Voltages	24 V DC, 24 V 50Hz, 230 V 50Hz
Connections	G1/2 - G2

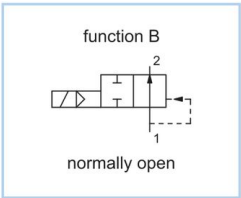
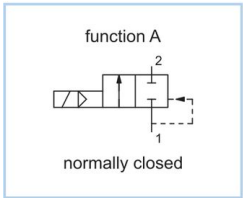
ON REQUEST

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

SWITCHING PRESSURE

Ports	Normally closed in bar	Normally open in bar
G1/2	2 - 100	2 - 65
G3/4	2 - 100	2 - 65
G1	2 - 100	2 - 65
G1 1/4	2 - 85	2 - 50
G1 1/2	2 - 80	2 - 50
G2	2 - 80	2 - 50
See details on the website		

VARIANTS



DETAILED INFORMATION

General

type of construction	2/2-way poppet valve, with piston, normally closed NC or normally open NO, coil 360° rotatable
operation	electrically, on request: manual override
ports	G1/2 - G2
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 mm²/s (cst)
material	body: AISI 304 plunger tube: AISI 303 internal parts: stainless steel sealing: PTFE + FPM optional: PTFE + EPDM
mounting	installation into fixed piping system
installation	in any position, preferable vertically fixed solenoid coil
unit of supply	without connector

Electrical

voltage	DC voltage or AC voltage
standard voltages	24 V DC, 24 V 50Hz, 230 V 50Hz
non-standard voltage on request	6 V - 200 V DC, 12 V - 240 V 50Hz or 60Hz
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	G1/2 - G1: PN 100, >G1: PN 80
response time	depending on operating pressure and fluid
non-standard equipment on request	coil type with cable, coils for temperature class H (180°C)



Coil power consumption at 20°C

coil type	inrush power 50Hz in VA	rated power 50Hz in VA	power DC in W
E5AA	-	-	8
E4AA	-	-	10
E1AA	32	14	12
E2AA	42	19	17
E3AE	70	32	27

Sealing material	Code	Fluid temperature	Applicable for
PTFE	T	-10°C to 150°C	acids and alkaline solution, steam

NORMALLY CLOSED VALVES

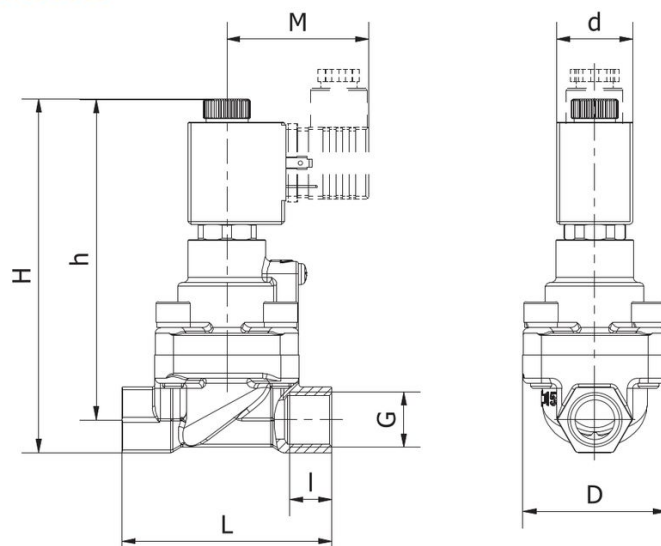
NW DN in mm	ports	maximum differential pressure in bar										kv- value in m³/h
		coil E5AA		coil E4AA		coil E1AA		coil E2AA		E3AE		
		50Hz	DC	50Hz	DC	50Hz	DC	50Hz	DC	50Hz	DC	
15	G1/2	-	2 - 25	-	2 - 35	2 - 40	2 - 40	2 - 100	2 - 100	2 - 100	2 - 100	3,6
20	G3/4	-	2 - 25	-	2 - 35	2 - 40	2 - 40	2 - 100	2 - 100	2 - 100	2 - 100	5,7
25	G1	-	2 - 18	-	2 - 25	2 - 40	2 - 30	2 - 100	2 - 70	2 - 100	2 - 85	8,7
32	G1 1/4	-	2 - 18	-	2 - 25	2 - 40	2 - 30	2 - 80	2 - 70	2 - 80	2 - 85	12,9
40	G1 1/2	-	2 - 18	-	2 - 25	2 - 40	2 - 25	2 - 80	2 - 65	2 - 80	2 - 80	19,2
50	G2	-	2 - 18	-	2 - 25	2 - 40	2 - 25	2 - 80	2 - 65	2 - 80	2 - 80	34,7

NORMALLY OPEN VALVES

NW DN in mm	ports	maximum differential pressure in bar		kv-value in m³/h
		coil E3AE		
		50Hz	DC	
15	G1/2	2 - 65	2 - 65	3,6
20	G3/4	2 - 65	2 - 65	5,7
25	G1	2 - 65	2 - 65	8,7
32	G1 1/4	2 - 50	2 - 50	12,9
40	G1 1/2	2 - 50	2 - 50	19,2
50	G2	2 - 50	2 - 50	34,7



DIMENSIONS



Dimension table for normally closed

G	M		d		D	h	H	I	L	approx. weight in g
	E1AA	E3AE	E1AA	E3AE						
G1/2	53	54	30	36	55	124	138	16	80	1 170
G3/4	53	54	30	36	60	132	150	16	90	1 530
G1	53	54	30	36	68	137	158	16	100	1 970
G1 1/4	53	54	30	36	80	142	171	20	130	2 400
G1 1/2	53	54	30	36	90	153	182	20	130	3 500
G2	53	54	30	36	108	164	199	20	149	5 100

Dimension table for normally open

G	M		d		D	h	H	I	L	approx. weight in g
	E1AA	E3AE	E1AA	E3AE						
G1/2	53	54	30	36	55	130	144	16	80	1 190
G3/4	53	54	30	36	60	138	156	16	90	1 550
G1	53	54	30	36	68	143	165	16	100	1 990
G1 1/4	53	54	30	36	80	148	178	20	130	2 400
G1 1/2	53	54	30	36	90	159	189	20	130	3 500
G2	53	54	30	36	108	170	205	20	149	5 100

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Solenoid valves for liquids and gases / Other materials - A01 / Other materials - A01 / [SL223-12-TE-A203] SL223-12-TE-A203

Version 3

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