



Technical Data Sheet Type 48

2/2-way solenoid valve
NC - Valve normally closed (as standard)
NO - Valve normally open (as option)

Direct operated piston design. No differential pressure is necessary for operation. When energized, the valve seat is opened directly. In standard (NC) the valve closes with spring power.

■ Solenoid valve for gaseous and liquid media

TECHNICAL SPECIFICATIONS

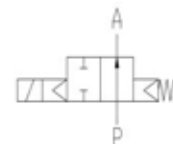
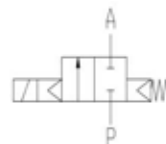
Type of control:	Direct operated, no pressure difference required
Design:	Poppet design
Connection:	Threaded Rp3/8 - Rp3 DIN 2999 (BSP) Other connections like NPT on request
Installation:	Actuator in upright position Lying position of actuator on request
Pressure:	0-5 bar (see table page 2)
Medium:	Clean, neutral, gaseous and liquid medium
Viscosity:	22 mm ² /s
Temperature range:	Medium: -40 °C bis +80 °C Ambient: -40 °C bis +50 °C <small>In consideration of the restrictions described on page 4</small>
Body material:	Brass 2.0402 Stainless steel 1.4581
Metallic inner parts:	Brass and stainless steel
Sealing:	NBR, FKM, PTFE, EPDM
Supply voltage:	AC~ 24V, 110V, 230V DC= 12V, 24V <small>Other supply voltages on request</small>
Voltage tolerance:	-10% / +10%
Power consumption:	.012 = 18 W .148 = 10 W ☹ .802 = 24 W .808 = 24 W ☹ .322 = 30 W .328 = 24 W ☹ .242 = 46 W .248 = 30 W ☹ .272 = 100 W .278 = 47 W ☹ .352 = 150 W .358 = 75 W ☹
Protection class:	IP65 according to DIN EN 60529
Duty factor:	100% ED-VDE 0580
Connection type:	Plug / Terminal box
Ex-proof:	acc. to 2014/34/EU (ATEX) <small>Further Ex-proof on request</small>

VALVE FEATURES

- No pressure difference required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

NC – non energized closed NO – non-energized open



CERTIFICATES



ORDERING SYSTEM

Valve type	Coil system	Valve options
. 4 8 2 3 / 1 0 0 1 /	. 8 0 2 -	H A
Connection	Body material	Seal material
58 G 3/8	10 Brass 2.0402	01 NBR
59 G 3/8	08 St. steel 1.4581	02 FKM
68 G 1/2		04 PTFE
69 G 1/2		06 EPDM
21 G 1/4		
22 G 3/8		
23 G 1/2		
24 G 3/4		
25 G 1		
26 G 1 1/4		
27 G 1 1/2		
28 G 2		
29 G 2 1/2		
30 G 3		

2 Standard IP65
8 Explosion proof acc. to directive 2014/34/EU (ATEX)



TECHNICAL FEATURES

Type 48

Rp	Seat mm	Kv-value m ³ /h	Standard type	max. pressure for coils					
				.012	.802	.322	.242	.272	.352
3/8	8	1,2	.4858/..01/...	0-3	0-5	-	-	-	-
3/8	10	2,1	.4859/..01/...	0-2	0-3	-	-	-	-
1/2	8	1,2	.4868/..01/...	0-3	0-5	-	-	-	-
1/2	10	2,1	.4869/..01/...	0-2	0-3	-	-	-	-
1/2	13	3,2	.4823/..01/...	-	0-1	0-2	0-5	-	-
3/4	18	4,9	.4824/..01/...	-	0-0,5	0-1	0,2,5	0-5	-
1	24	8,5	.4825/..01/...	-	0-0,3	0-0,5	0-1	0-1,6	-
1 1/4	29	15,0	.4826/..01/...	-	-	0-0,3	0-0,6	0-1	-
1 1/2	35	20,0	.4827/..01/...	-	-	0-0,1	0-0,3	0-0,5	0-0,8
2	45	30,0	.4828/..01/...	-	-	-	0-0,15	0-0,4	0-1
2 1/2	62	58,0	.4829/1001/...	-	-	-	-	0-0,15	0-0,4
3	75	60,0	.4830/1001/...	-	-	-	-	0-0,1	0-0,3

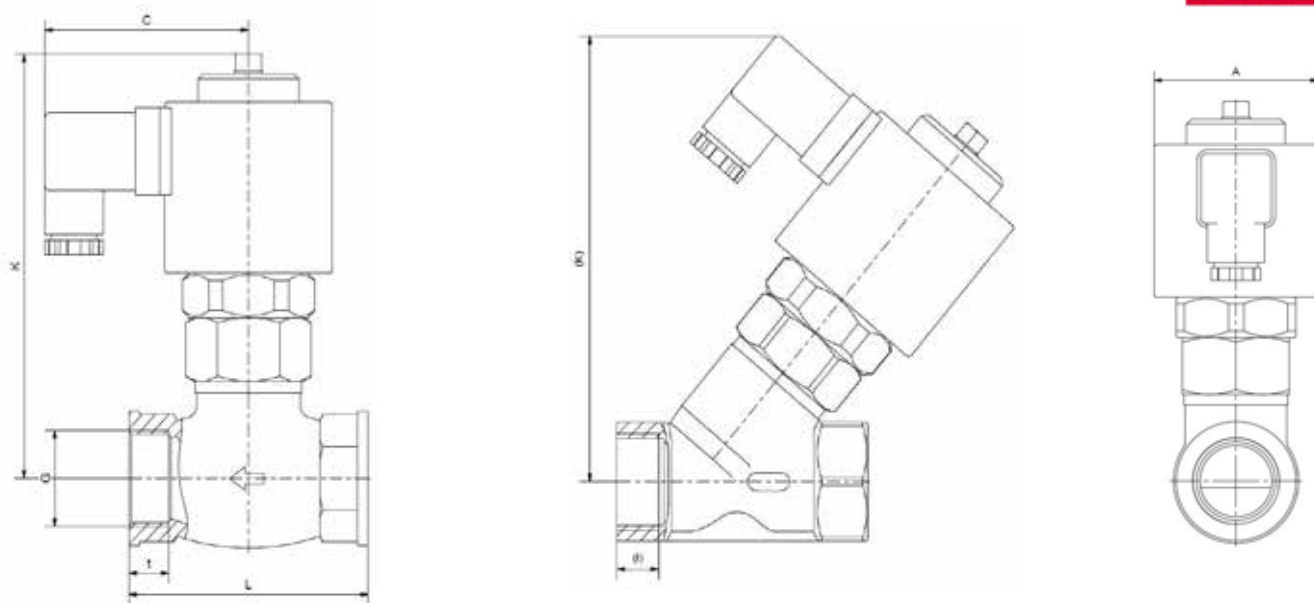
The flow rate mentioned in the table applies to the strongest coil.

Rp	Seat mm	Kv-value m ³ /h	Standard type	max. pressure for ATEX-coils					
				.148	.808	.328	.248	.278	.358
3/8	8	1,2	.4858/..01/...	0-1	0-5	-	-	-	-
3/8	10	2,1	.4859/..01/...	0-0,5	0-3	-	-	-	-
1/2	8	1,2	.4868/..01/...	0-1	0-5	-	-	-	-
1/2	10	2,1	.4869/..01/...	0-0,5	0-3	-	-	-	-
1/2	13	3,2	.4823/..01/...	-	0-1	-	-	-	-
3/4	18	4,9	.4824/..01/...	-	0-0,5	0-0,8	-	-	-
1	24	8,5	.4825/..01/...	-	0-0,3	0-0,5	0-0,7	0-1	-
1 1/4	29	15,0	.4826/..01/...	-	-	0-0,1	0-0,3	0-0,8	-
1 1/2	35	20,0	.4827/..01/...	-	-	-	0-0,2	0-0,3	-
2	45	30,0	.4828/..01/...	-	-	-	-	0-0,2	0-0,35
2 1/2	62	58,0	.4829/1001/...	-	-	-	-	-	0-0,15
3	75	60,0	.4830/1001/...	-	-	-	-	-	0-0,1

The flow rate mentioned in the table applies to the strongest coil.



DIMENSIONS



Type 48

Magnet	.012/.148*			.802/.808*			.322/.328*				
Type	4858-59	4868-69	4858-69	4823	4824	4825	4823	4824	4825	4826	4827
G	3/8	1/2	3/8-1/2	1/2	3/4	1	1/2	3/4	1	1 1/4	1 1/2
A	36	36	50	50	50	50	63	63	63	63	63
C	61	61	70	70	70	70	77	77	77	77	77
K	75	75	92	107 (125)	113 (129)	117 (133)	137 (145)	139 (152)	147 (154)	149 (160)	144 (164)
L	54	54	54	65	75	90	65	75	90	110	120
t	10	10	10	11 (12)	12 (13)	14 (15)	11 (12)	12 (13)	14 (15)	16 (17)	18 (19)
kg	0,6	0,6	1	1,1	1,2	1,5	2	2	2,3	2,6	3

Values in brackets apply to the stainless steel angle seat version

*Differing dimension "C" for ATEX-coils

Magnet	.242/.248					.272/.278					
Type	4824	4825	4826	4827	4828	4825	4826	4827	4828	4829	4830
G	3/4	1	1 1/4	1 1/2	2	1	1 1/4	1 1/2	2	2 1/2	3
A	77	77	77	77	77	105	105	105	105	105	105
C	93	93	93	93	93	107	107	107	107	107	107
K	166 (179)	165 (184)	170 (192)	180 (190)	178 (203)	197 (207)	200 (210)	203 (231)	211 (225)	217	223
L	75	90	110	120	150	90	110	120	150	175	200
t	12 (13)	14 (15)	16 (17)	18 (19)	20 (21)	14 (15)	16 (17)	18 (19)	20 (21)	19	22
kg	3,4 (3,5)	4,0 (3,7)	4,2 (4,3)	4,6 (4,5)	5,3 (5,7)	7,7 (7,8)	7,8 (8,2)	8,3 (8,8)	9,1 (9,8)	10,6	12,9

Values in brackets apply to the stainless steel angle seat version