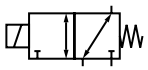
MICRO SOLENOID VALVE

pinch mechanism
for flexible tube
O.D. 1.65 to 9.5 mm

U



3/2
Series
384



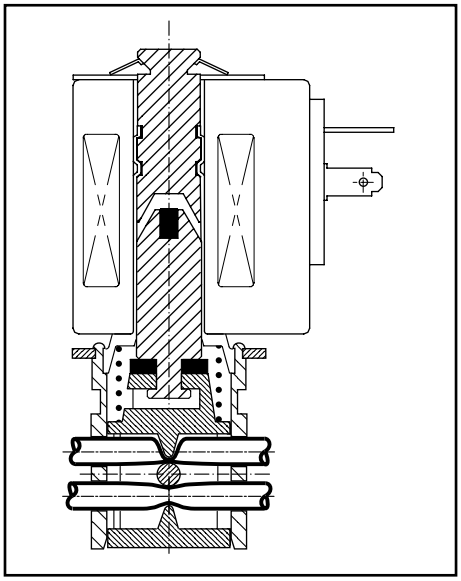
FEATURES

- *Solenoid valve suitable for cutting off the flow of a fluid by pinch*
- *For sterile, aseptic, physiological and food applications*
- *No turbulence when cutting off flow by pinch*
- *Silent operation*
- *Full bore output flow compared with a traditional solenoid valve*
- *Manual pulse control for fitting tube*
- *A single component in contact with the fluid, i.e. the tube*
- *Bi-directional flow*
- *The solenoid valves satisfy all relevant EC directives*

GENERAL

Differential pressure See «SPECIFICATIONS» [1 bar =100 kPa]

fluids (∗)
air, inert gases, water, oil and liquids



MATERIALS IN CONTACT WITH FLUID

(∗) Ensure that the compatibility of the fluids in contact with the materials is verified

Recommended flexible tube VMQ (silicone)
(max. hardness: 50 Shore A)
The silicone tube is not included in our supply

OTHER MATERIALS

Body Aluminium, anodised
Pinch mechanism POM (Graphite-reinforced polyacetal)
Internal parts Stainless steel
Guide tube Nickel-plated brass

ELECTRICAL CHARACTERISTICS

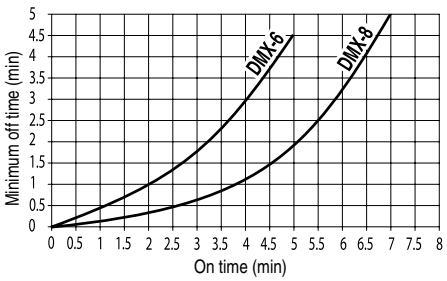
Coil insulation class F
Connector Spade plug (cable Ø 4-6 mm or Ø 6-10 mm)
Connector specification
4 W/8 W/6 W (DMX) DIN 43650, 9,4 mm, industry standard B
6 W /13 W (AMX/FNX) ISO 4400 / EN 175301-803, form A
Electrical safety IEC 335
Electrical enclosure protection Coil type 01 = IP40 / Coil type 02-03 = IP65
Standard voltages DC (=) : 12V - 24V
(Other voltages on request)

prefix option	power ratings inrush ~ (VA)	power ratings holding ~ (VA)	power ratings holding ~ (W)	power ratings hot/cold = (W)	operator ambient temperature range (TS) (C°)	replacement coil = 12 V DC	replacement coil = 24 V DC	type (1)
SC	-	-	-	4	-10 to + 60	43005268	43005269	01 (DNX-4)
	-	-	-	8		500701-001	500701-002	
	-	-	-	6		500701-003	500701-004	
	-	-	-	9		43005143	43005144	02 (AMX)
	-	-	-	13		43005316	43005317	03 (FNX)

(1) Refer to the dimensional drawings on the following page.

USE IN INTERMITTENT SERVICE

Minimum waiting time between each application of power



SPECIFICATIONS

tube I.D.	tube O.D.	pinch force	operating pressure differential (bar) min.	operating pressure differential (bar) max. (PS) air inert gas (∗)	operating pressure differential (bar) max. (PS) liquids (∗)	power coil (W) ~	power coil (W) =	catalogue number
(mm)	(mm)	(daN)		=	=			=
U - Universal								
0,76	1,65	0,12	0	0,8	0,8	-	4	**SCH384B004**
1,02	2,16	0,18	0	0,8	0,8	-	4	**SCH384B001**
1,57	3,18	0,22	0	0,8	0,8	-	8	**SCH384B002** (1)
1,98	3,18	0,18	0	0,8	0,8	-	6	**SCH384B003** (1)
3,4	4,7	0,4	0	0,8	0,8	-	9	**SCH384A005**
4,8	7,9	0,85	0	0,8	0,8	-	13	**SCH384B006**
6,4	9,5	1,1	0	0,8	0,8	-	13	**SCH384B007**

(1) Observe the minimum of time stated, see graph above.

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OPTIONS AND ACCESSORIES

- Flexible tubes having to use an external guiding device for optimum support (see dimensions):
  - with an outside diameter lower than 2,2 mm (catalogue numbers SCH384B001 to ..B004)
  - with an outside diameter lower than 3,5 mm (catalogue number SCH384A005)
  - with an outside diameter lower than 6 mm (catalogue numbers SCH384B006 and ..007)
- For use on tubes other than those recommended, contact us
- Plug with visual indication and peak voltage suppression or with cable length of 2 m

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation However, for optimum performance it is recommended that they be fitted with the solenoid operator at the top
- Fixing plate built in between the body and the coil for assembly in a bank on a base plate
- Flexible tubes are not included in our supply
- **Do not connect the solenoid valve to the power supply without fitting a flexible tube beforehand**
- Installation/maintenance instructions are included with each valve

ORDERING EXAMPLES:

SC H 384 **B** 001 — 12V / DC
SC H 384 **B** 006 — 24V / DC

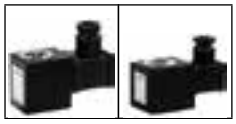
prefix
pipe thread
basic number
voltage
suffix

DIMENSIONS (mm), WEIGHT (kg)



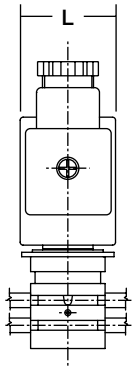
TYPE 01
Prefix "SC" Solenoid
IEC 335 / DIN 43650
IP40

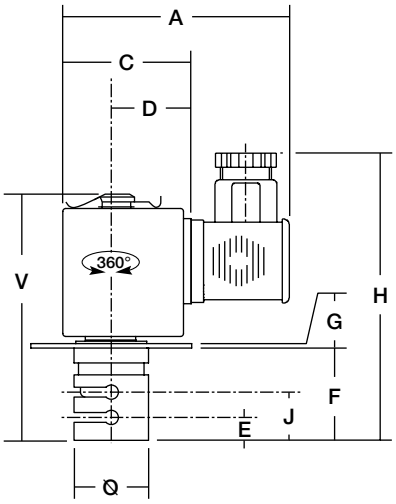
Type 01: SCH384B001/002/003/004



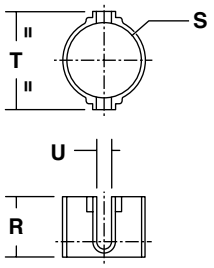
TYPE 02-03
Prefix "SC" Solenoid
IEC 335 / ISO 4400
IP65

Type 02: SCH384A005
Type 03: SCH384B006/B007

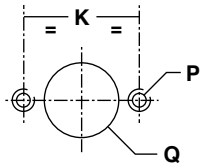


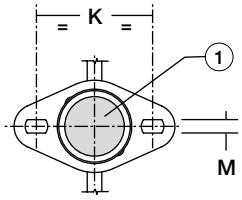


tube guiding device



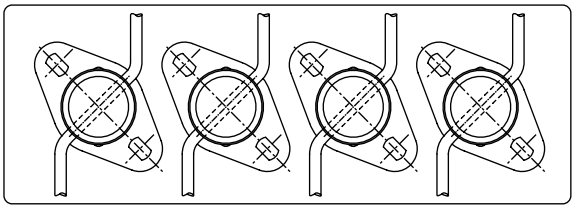
arrangement for wall-fitting





bottom view

example of banked assembly



① Impulse manual operator

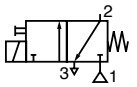
type	prefix option	catalaogue number	Ø	A	C	D	E	F	G	H	K	L	M	P	Q	R	S	T	U	V	weight (1)	tube guiding device	
																						catalogue number	weight
01	SC	SCH384B001/002 /003/004	16	49,5	23,5	15	11	20	1	66	24	17	3,3	M3	16,5	10,7	16	24	2,2	51,2	0,06	**C140094**	0,005
02	SC	SCH384A005	25	78	43	27	17,5	32	1,5	99	39	32	4,5	M4	25,5	14	25	33	3,2	82,5	0,30	**C140095**	0,009
03	SC	SCH384B006/B007	30	84	49	28	24,5	43,5	1,5	99	45,5	42	4,5	M4	30,5	24	30	39	6	99	0,45	**C140096**	0,015

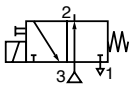
(1) Incl. coil(s) and connectors..

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MICRO SOLENOID VALVES

direct operated
pad-mounting body
for subbase M3/M5

NC 

NO 

3/2
Series
188
Type
Micro 10



GENERAL

Fluid	Air or inert gas, non-lubricated, filtered at 25 μm
Operating pressure	7 bar max.
Ambient temperature	+5°C to +50°C
Flow (Qv at 6 bar)	See “SPECIFICATIONS”
Manual operator	Impulse-type (without manual operator on request)
Switching time	10 ms (<10 ms on request)

CONSTRUCTION

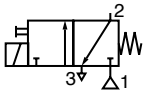
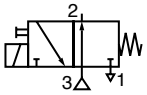
Body	PA (polyamide) MXD6
Internal parts	Stainless steel, nickel-plated steel, synthetic material, aluminium
Seals	NBR (nitrile), FPM (fluoroelastomer) on request

ELECTRICAL CHARACTERISTICS

voltage (other voltages on request)	**consumption**	**insulation class**	**degree of protection**	**electrical connection**
24V = 12 V = 5 V = (+10%, -15%)	1W - 1,3W	F	IP 40	connector with two 0.5 mm² lead wires + built-in LED and electrical protection or cable ends, 0,5 m long

The solenoid valves are designed for continuous operation within the maximum ambient temperature limits.

SPECIFICATIONS

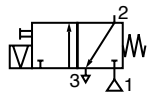
symbol	**orifice size** (mm) 1 → 2	**orifice size** (mm) 2 → 3	**flow** at 6 bar l/min (ANR)	**flow** coeff. Kv	**operating pressure** (bar) min.	**operating pressure** (bar) max.	**consumption** (W)	**type of electrical connection** (✻)	**catalogue number**
NC 	0,5	0,7	8	0,12	0	8	1,3	1	**18801003**
								2	**18801076**
								3	**18801074**
								4	**18801078**
							1	5	**18801072**
	0,8	0,8	10	0,15	0	4	1,3	1	**18801081**
								2	**18801082**
								3	**18801083**
								4	**18801084**
							1	5	**18801085**
	1,0	1,0	12	0,18	0	2,5	1,3	1	**18801086**
								2	**18801087**
								3	**18801088**
								4	**18801089**
							1	5	**18801090**
NO 	0,5	0,5	8	0,12	0	6	1,3	1	**18801063**
								2	**18801077**
								3	**18801075**
								4	**18801079**
							1	5	**18801073**
	0,8	0,8	10	0,15	0	3	1,3	1	**18801091**
								2	**18801092**
								3	**18801093**
								4	**18801094**
							1	5	**18801095**
	1,0	1,0	12	0,18	0	1,5	1,3	1	**18801096**
								2	**18801097**
								3	**18801098**
								4	**18801099**
							1	5	**18801100**

(✻) Type 1,2,3, 4 with LED and electrical protection
1 = horizontal, width 5,08 mm
2 = vertical, width 5,08 mm
3 = horizontal, width 2,54 mm
4 = vertical, width 2,54 mm
5 = cable ends 0,5 m long, 0,25 mm²

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MICRO SOLENOID VALVES

direct operated, **with latching coil**
pad-mounting body
for subbase M3/M5

NC / NO 

3/2
Series
188
Type
Micro 10



GENERAL

Fluid	Air or inert gas, non-lubricated, filtered at 25 μm
Operating pressure	8 bar max.
Ambient temperature	+5°C to +50°C
Flow (Qv at 6 bar)	See “SPECIFICATIONS”
Manual operator	Impulse-type (without manual operator on request)
Switching time	10 ms (<10 ms on request)

CONSTRUCTION

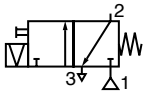
Body	PA (polyamide) MXD6
Internal parts	Stainless steel, nickel-plated steel, synthetic material, aluminium
Seals	NBR (nitrile), FPM (fluoroelastomer) on request

ELECTRICAL CHARACTERISTICS

voltage (other voltages on request)	**consumption**	**insulation class**	**degree of protection**	**electrical connection**
24V = 12 V = (+10%, -15%) 5 V =	1W - 1,3W	F	IP 40	connector with two 0.5 mm² lead wires + built-in LED and electrical protection or cable ends, 0,5 m long

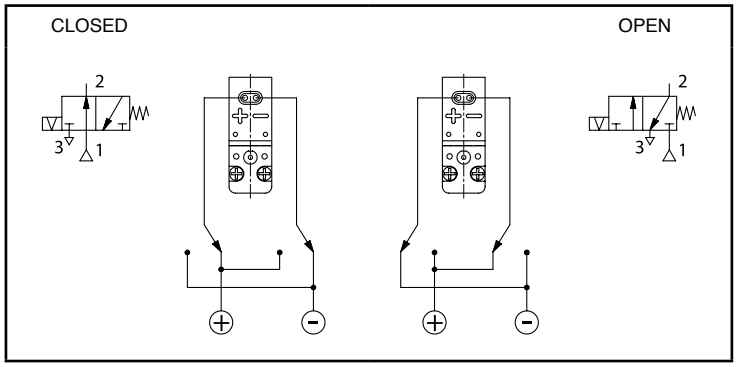
The solenoid valves are designed for continuous operation within the maximum ambient temperature limits.

SPECIFICATIONS

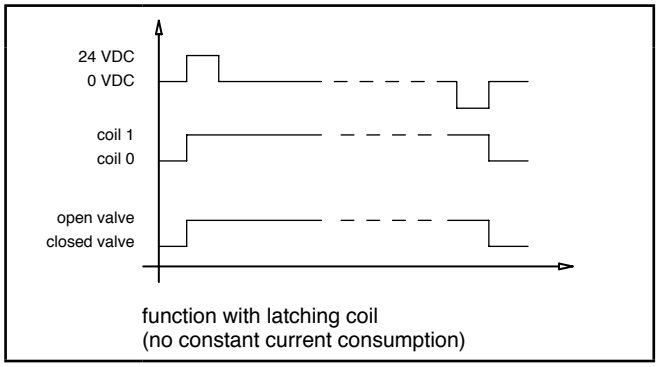
symbol	**orifice size** (mm) 1 → 2	**orifice size** (mm) 2 → 3	**flow** at 6 bar l/min (ANR)	**flow** coeff. Kv	**operating pressure** (bar) min.	**operating pressure** (bar) max.	**consumption** (W)	**type of electrical connection** (✻)	**catalogue number**
	0,5	0,7	8	0,12	0	7	1,3	1	**18801101**
								2	**18801102**
								3	**18801103**
								4	**18801104**
							1	5	**18801105**
	0,8	0,8	10	0,15	0	3	1,3	1	**18801106**
								2	**18801107**
								3	**18801108**
								4	**18801109**
							1	5	**18801110**
	1,0	1,0	12	0,18	0	1	1,3	1	**18801111**
								2	**18801112**
								3	**18801113**
								4	**18801114**
							1	5	**18801115**

(✻) type 1, 2, 3, 4 with LED and electrical protection
1 = horizontal, width 5,08 mm
2 = vertical, width 5,08 mm
3 = horizontal, width 2,54 mm
4 = vertical, width 2,54 mm
5 = cable ends, 0,5 m long, 0,25 mm²

WIRING DIAGRAM



FUNCTIONAL DIAGRAM



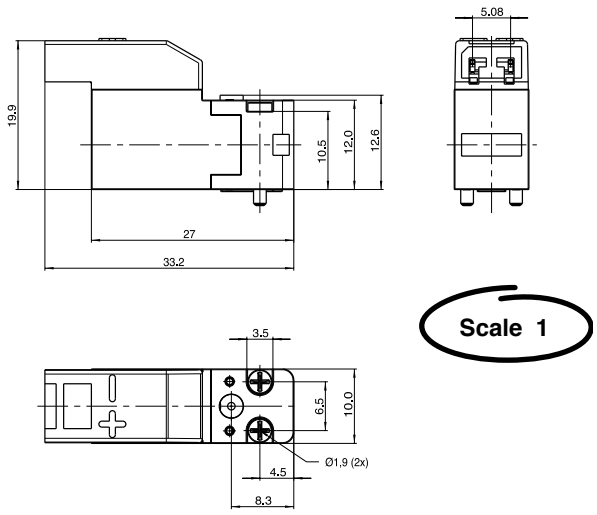
function with latching coil
(no constant current consumption)

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DIMENSIONS (mm), WEIGHT (kg)

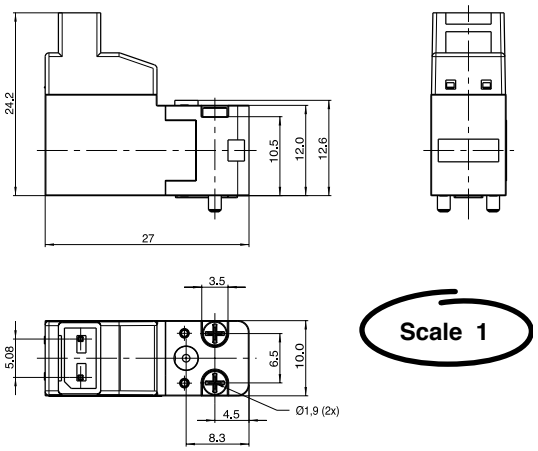
weight
0,0095

type 1



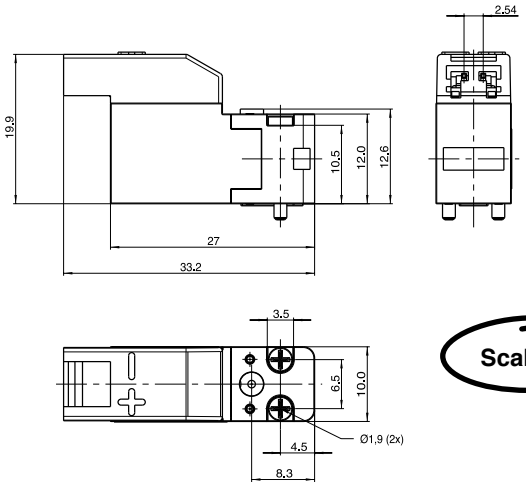
Scale 1

type 2



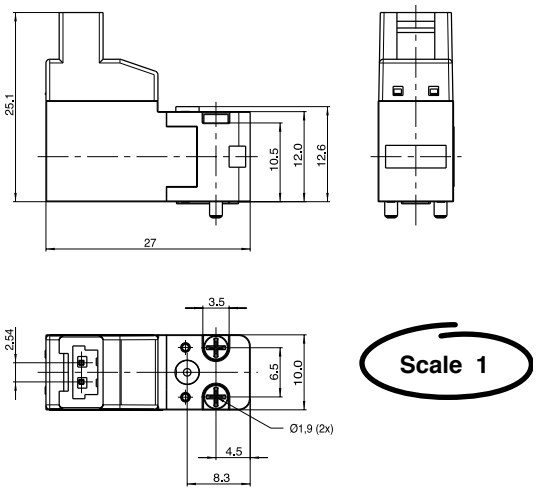
Scale 1

type 3



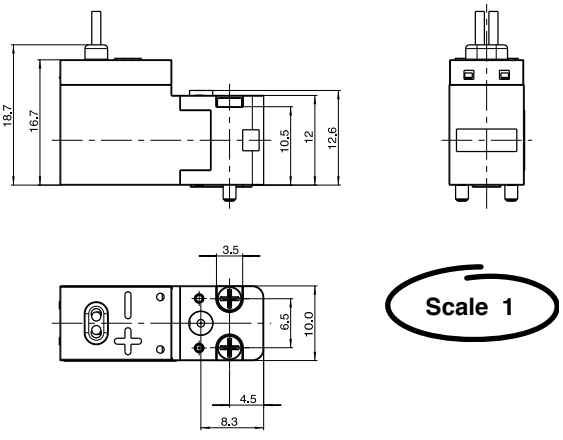
Scale 1

type 4



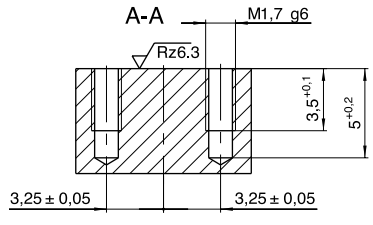
Scale 1

type 5



Scale 1

flange facing

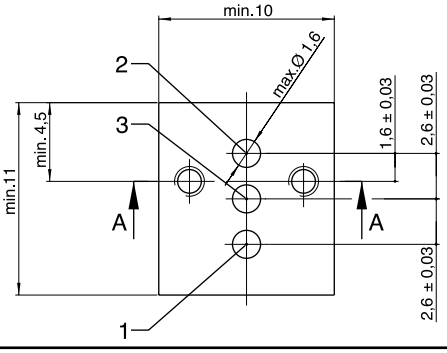


NO
3 = Pressure 2 = Outlet 1 = Exhaust

NC
1 = Pressure 2 = Outlet 3 = Exhaust

Use in vacuum (NO)
3 = Vacuum pump 2 = Outlet 1 = Atmosphere

Use in vacuum (NC)
1 = Vacuum pump 2 = Outlet 3 = Atmosphere

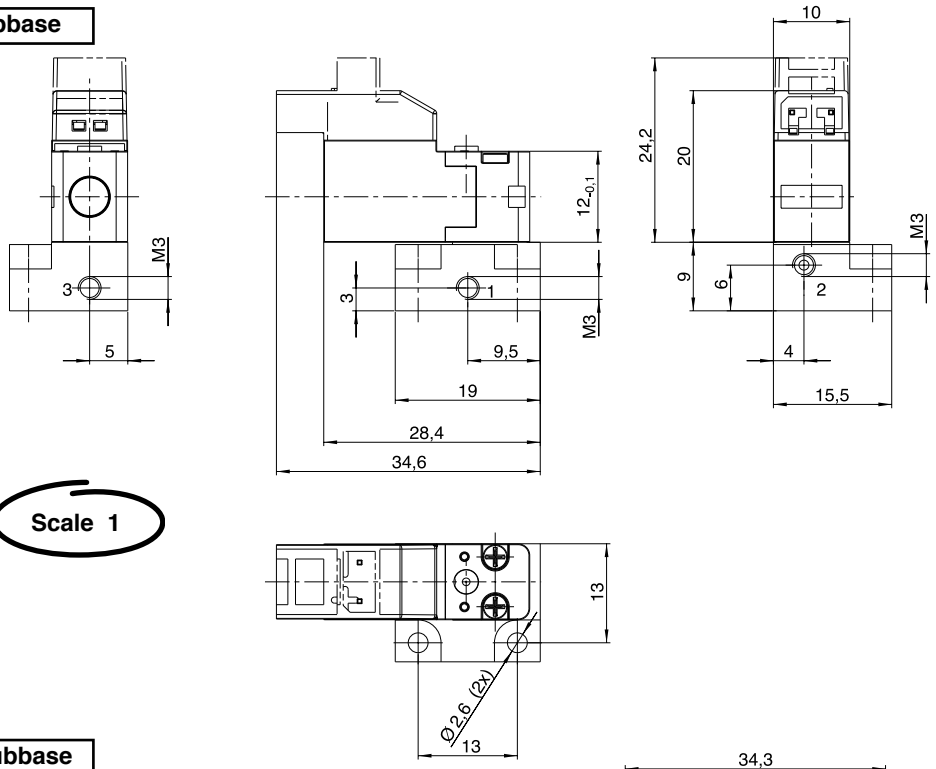


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DIMENSIONS (mm), WEIGHT (kg)

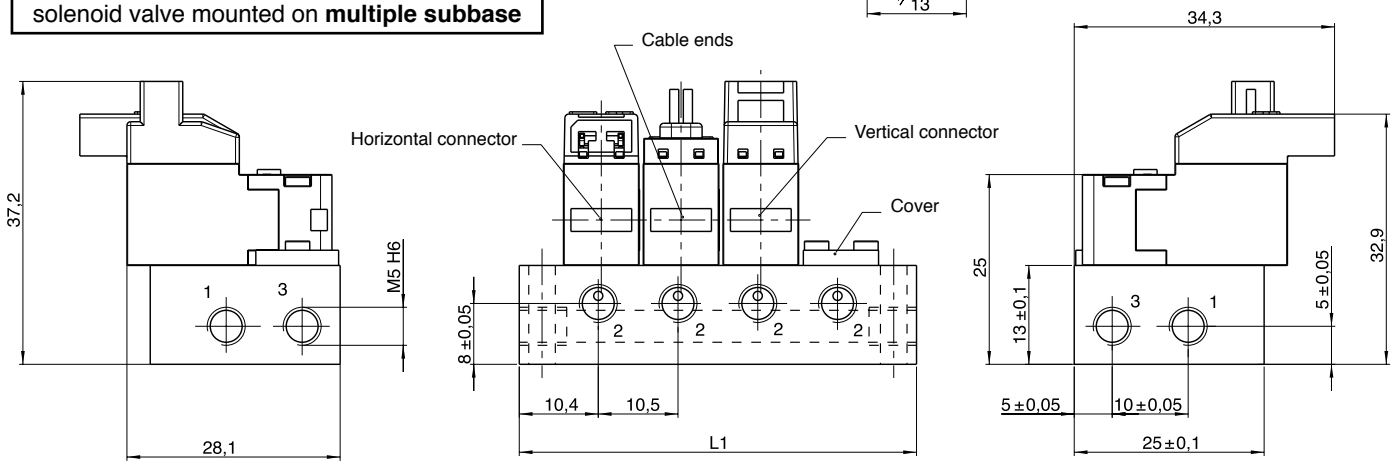
solenoid valve mounted on **single subbase**

number of valves	subbase catalogue number*	weight
1	**35300101**	0,015

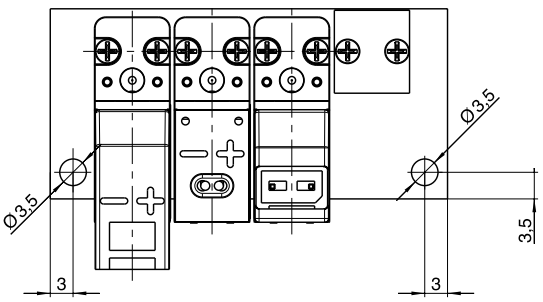


Scale 1

solenoid valve mounted on **multiple subbase**



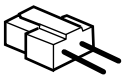
number of valves	subbase catalogue number*	length L1	length L2	weight
2	**35300102**	33,5	27,5	0,051
3	**35300103**	44	38	0,069
4	**35300104**	54,5	48,5	0,086
5	**35300105**	65	59	0,104
6	**35300106**	75,5	69,5	0,122
7	**35300107**	86	80	0,139
8	**35300108**	96,5	90,5	0,156
9	**35300109**	107	101	0,175
10	**35300110**	117,5	111,5	0,193



Scale 1

A : Blanking plate, **cat. no. 88135305**

* The connectors must be ordered **separately**, please indicate the quantity and one of the following codes:
Connector, 2 wires



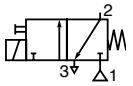
Distance between contacts 5,08 mm
- Length 0,5 m - **cat. no.: 88118801**
- Length 1,5 m - **cat. no.: 88118802**
- Length 3 m - **cat. no.: 88118803**

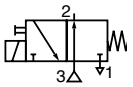
Distance between contacts 2,54 mm
- Length 0,5 m - **cat. no.: 88118806**
- Length 1,5 m - **cat. no.: 88118807**
- Length 3 m - **cat. no.: 88118808**

00217GB-2006/R02
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MICRO SOLENOID VALVES

direct operated, **Large Flow**
pad-mounting body
for subbase M5

NC 

NO 

3/2
Series
188
Type
Micro 10



CE

GENERAL

Fluid	Air or inert gas, non-lubricated, filtered at 25 μm
Operating pressure	10 bar max.
Ambient temperature	+5°C to +50°C
Flow (Qv at 6 bar)	See «SPECIFICATIONS»
Switching time	10 ms

CONSTRUCTION

Body	PBT (polybutylene terephthalate)
Internal parts	Stainless steel synthetic material
Seals	FPM (fluoroelastomer)

ELECTRICAL CHARACTERISTICS

voltage ± 10 % (other voltages on request)	**power ratings** [1] **inrush**	**holding**	**insulation class**	**degree of protection**	**electrical connection**
24V =	3,2 W	1,3 W	F	IP40	X1, X2, X3, X4, X5 *see Electrical Connection Type
12 V =					

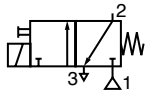
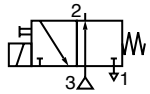
The solenoid valves are designed for continuous operation within the maximum ambient temperature limits.
[1] The valves are provided with power save electronics and LED which switch to holding power after 100 msec.

*Electrical Connection Type

X1 = type 1, horizontal, distance between contacts 5,08 mm
X2 = type 2, vertical, distance between contacts 5,08 mm
X3 = type 3, horizontal, distance between contacts 2,54 mm
X4 = type 4, vertical, distance between contacts 2,54 mm
X5 = type 5, two leads 0,5 m long, 0,25 mm²

Type 1,2,3,4,5 with LED, protection and power save electronics.

SPECIFICATIONS

symbol	**orifice size** (mm)		**flow**		**operating pressure** (bar)		**consumption**	**catalogue number**
	1 → 2	2 → 3	**at 6 bar** l/min (ANR)	**coefficient Kv** m³/h	min.	max.	(W)	
NC 	1,0	1,0	13	0,012	0	10	1,3	**R188B213XXV11XX**
	1,3	1,3	29	0,027	0	6	1,3	**R188B214XXV11XX**
	1,6	1,6	42	0,039	0	3,5	1,3	**R188B215XXV11XX**
NO 	1,0	1,0	13	0,012	0	8	1,3	**R188B223XXV11XX**
	1,3	1,3	29	0,027	0	4	1,3	**R188B224XXV11XX**
	1,6	1,6	42	0,039	0	1,5	1,3	**R188B225XXV11XX**

00233GB-2015/R01
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ORDERING

15-DIGIT PRODUCT CODE

R	188	B	1	1	1	XX	1	0	1	XX

Fluid Connection Type
R = Pad Mount

Product Series
188 = Series 188 Micro 10

Revision
B = Micro 10, Revision B (grey)

Coil Size & Power-Save
2 = 10 mm with power-save

Valve Type
1 = 3/2 NC
2 = 3/2 NO

Valve Orifice
3 = 1,0 mm
4 = 1,3 mm
5 = 1,6 mm

Electrical Connection Type
X1 = Type 1, horizontal 5,08 mm
X2 = Type 2, vertical 5,08 mm
X3 = Type 3, horizontal 2,54 mm
X4 = Type 4, vertical 2,54 mm
X5 = Type 5, 2 leads 0,5 m x 0,25 mm^2

Sealing Material
V = FPM

Fastening Screws
0 = without srews
1 = with metric screws M1,7x12,5
2 = with selftapping screws KB18x14

Manual Override
1 = without manual override

Voltage
F1 = 24 VDC
F3 = 12 VDC

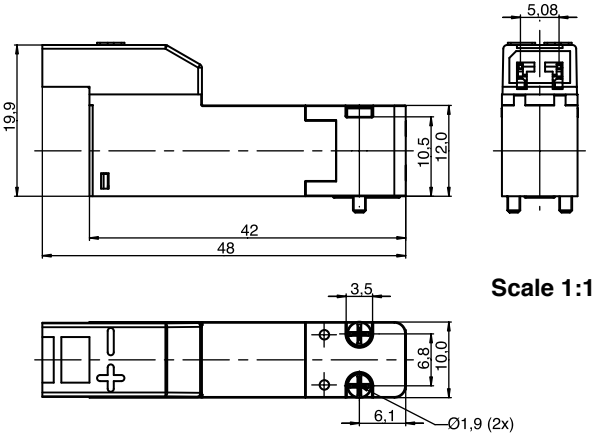
ORDERING EXAMPLE: R188B213X1V11F1 = pad mount, series 188, Micro 10 Revision B (grey), with power-save, 3/2 NC, orifice 1,0 mm, Type 1, FPM, M 1,7 x 12,5, without manual override, 24 VDC

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DIMENSIONS (mm), WEIGHT (kg)

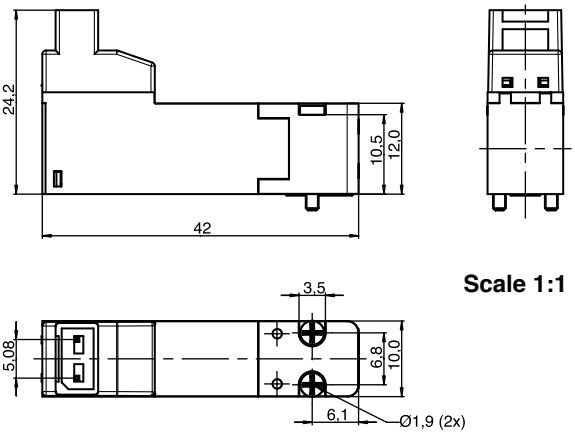
weight
0,0017

type 1



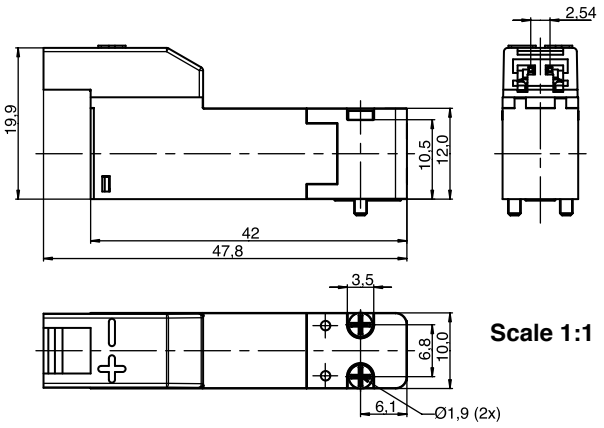
Scale 1:1

type 2



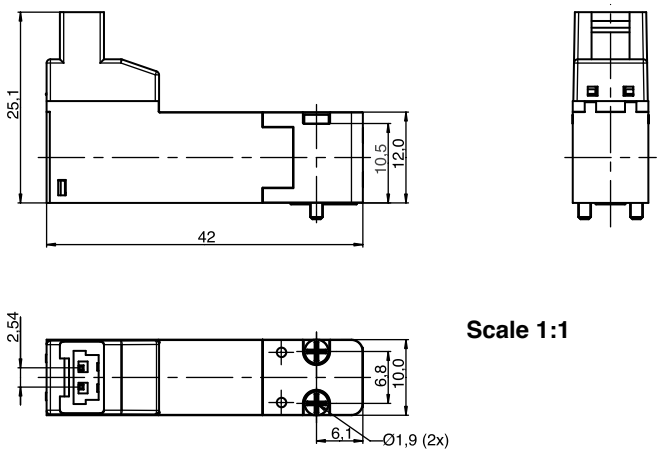
Scale 1:1

type 3



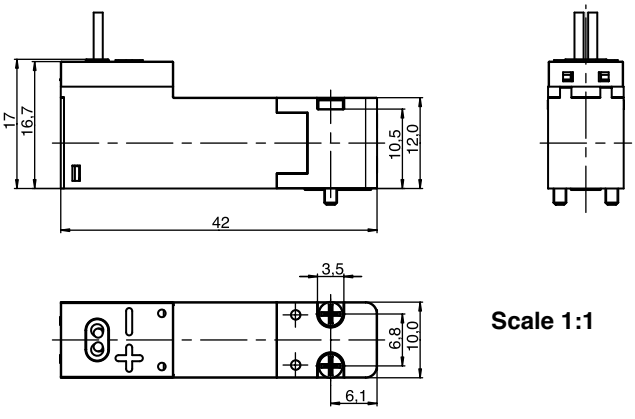
Scale 1:1

type 4



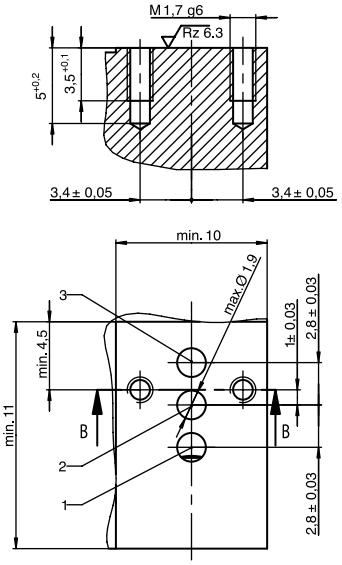
Scale 1:1

type 5



Scale 1:1

flange facing

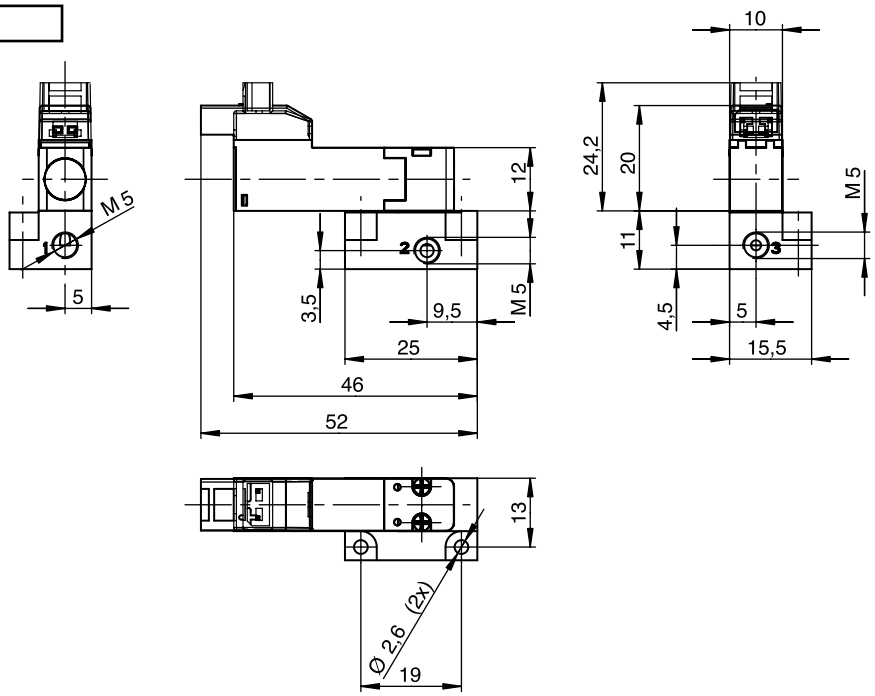


00233GB-2008/R01
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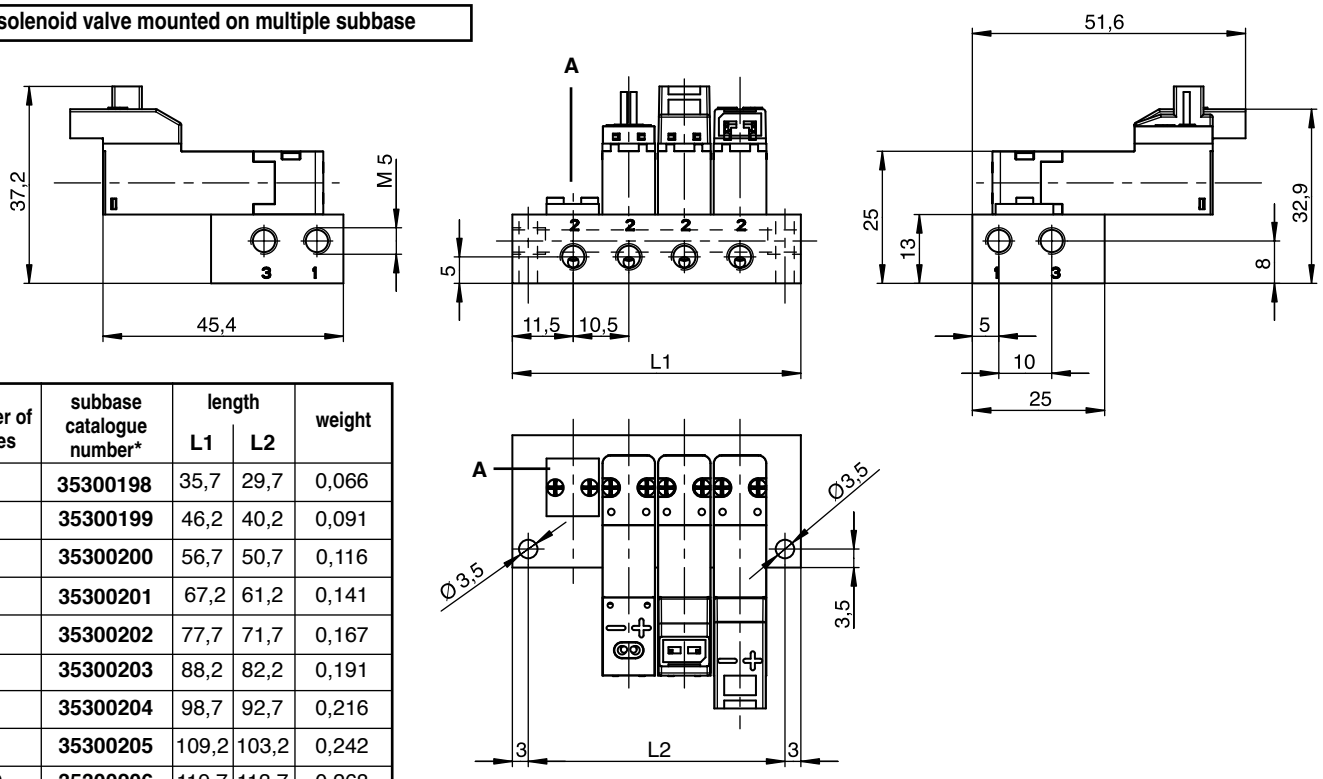
DIMENSIONS (mm), WEIGHT (kg) (kg)

solenoid valve mounted on single subbase

number of valves	subbase catalogue number*	weight
1	**35300207**	0,027



solenoid valve mounted on multiple subbase

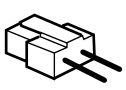


number of valves	subbase catalogue number*	length L1	length L2	weight
2	**35300198**	35,7	29,7	0,066
3	**35300199**	46,2	40,2	0,091
4	**35300200**	56,7	50,7	0,116
5	**35300201**	67,2	61,2	0,141
6	**35300202**	77,7	71,7	0,167
7	**35300203**	88,2	82,2	0,191
8	**35300204**	98,7	92,7	0,216
9	**35300205**	109,2	103,2	0,242
10	**35300206**	119,7	113,7	0,268

A: Blanking plate, catalogue number: 513697-001

* The connectors must be ordered separately, please indicate the quantity and one of the following codes:

Connector, 2 wires

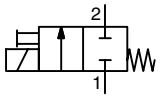


Distance between contacts 5,08 mm	- length 0,5 m	- catalogue number: **88118801**
	- length 1,5 m	- catalogue number: **88118802**
	- length 3 m	- catalogue number: **88118803**
Distance between contacts 2,54 mm	- length 0,5 m	- catalogue number: **88118806**
	- length 1,5 m	- catalogue number: **88118807**
	- length 3 m	- catalogue number: **88118808**

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MINI-SOLENOID VALVES

ISO 15218 (CNOMO, size 15) interface
direct operated, pad mounting body
connector size 15

NC 

2/2
Series
302



FEATURES

- *Compact, monobloc solenoid pilot valve with spade-plug connector type DIN 43650, form C, with 9,4 mm spacing, or to ISO 15217/DIN 43650 form C, with 8 mm spacing.*
- *Version with or without integrated LED and electrical protection. LED indicator visible from 3 sides.*
- *The solenoid valves satisfy all relevant EC directives.*

GENERAL

Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]
Pneumatic base ISO 15218 (CNOMO E06.36.120N, size 15)
Connection Subbase
Response time 8 - 15 ms

fluids (✳)	temperature range (TS)	seal materials (✳)
air or inert gas filtered at 50 µm, lubricated or not	-25°C to +60°C (LP2) (1)	NBR (nitrile)
	-25°C to +60°C /+50°C (LP3) (1)	FPM (fluoroelastomer)

(1) LP2, LP3: see "electrical characteristics" table

MATERIALS IN CONTACT WITH FLUID

(✳) Ensure that the compatibility of the fluids in contact with the materials is verified

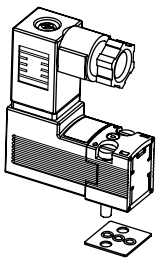
Body PARA
Internal parts POM, PET, stainless steel and brass
Seals NBR (disc), FPM (others)
Pneumatic interface seal TPE

OTHER MATERIALS

Coil Thermoplastic PET

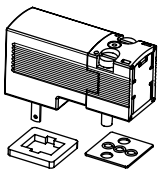
ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connector Spade plug (cable Ø 4-6 mm)
Connector specification DIN 43650, 9,4 mm, form C
or ISO 15217 / DIN 43650, 8 mm, form C
Electrical safety IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529)
Standard voltages DC (=) : 24V
(Other voltages on request) AC (~) : 24V - 115V - 230V / 50-60 Hz



PNEUMATIC CNOMO interface (standard)

PNEUMATIC-ELECTRIC interface (available on request)



coils			power ratings (✧)				operator ambient temperature range (4) (TS)	type (2)
power ranges	voltages (V)		inrush ~	holding ~		hot/cold =		
	~	=	(VA)	(VA)	(W)	(W)	(°C)	
LP2	24-115	24	1,4	1,2	1,1	1 / 1,2	-25 to +60	01
LP3	230	24	2,1	1,6	1,5	2 / 2,65	-25 to +60 (~)/+50 (=)(3)	

(✧) **Nominal power ratings of versions without LED indicator and electrical protection.**

For versions with LED indicator and electrical protection, add:
0,15 W with DC (=)
0,4 W / VA with AC (~)

(2) Refer to the dimensional drawings on the following page.. (3) With LED, see page 90 (4) For joinable subbase mounting, see page 90.

SPECIFICATIONS

orifice size	flow at 6 bar l/min (ANR)		coefficient Kv		operating pressure differential (bar)		power ranges	basic catalogue number			
								manual operator			
								impulse		maintained	
								9,4 mm	8 mm	9,4 mm	8 mm
(mm)	1 → 2	2 → 3	1 → 2	2 → 3	min.	max. (PS)		~ =	=	~ =	=
NC - Normally closed (Without LED and protection)											
0,6	11	20	0,11	0,26	0	10	LP2	**30211007**	**30210007**	**30211008**	**30210008**
0,8	17	28	0,22	0,35	0	8	LP2	**30211010**	**30210010**	**30211011**	**30210011**
1,1	32	51	0,35	0,50	0	5	LP2	**30211016**	**30210016**	**30211017**	**30210017**
					0	10	LP3	**30211019**	**30210019**	**30211020**	**30210020**
1,5	39	53	0,50	0,56	0	3	LP2	**30211022**	**30210022**	**30211023**	**30210023**
					0	6	LP3	**30211025**	**30210025**	**30211026**	**30210026**
NC - Normally closed (With LED and protection) (5)											
0,6	11	20	0,11	0,26	0	10	LP2	**30215007**	**30214007**	**30215008**	**30214008**
0,8	17	28	0,22	0,35	0	8	LP2	**30215010**	**30214010**	**30215011**	**30214011**
1,1	32	51	0,35	0,50	0	5	LP2	**30215016**	**30214016**	**30215017**	**30214017**
					0	10	LP3	**30215019**	**-**	**30215020**	**-**
1,5	39	53	0,50	0,56	0	3	LP2	**30215022**	**30214022**	**30215023**	**30214023**
					0	6	LP3	**30215025**	**-**	**30215026**	**-**

(5) Only available in 24 V AC/DC and 115 V AC.

	~	=
with connector	--A	--D
without connector	--L	--P

to be inserted after the basic catalogue number

When ordering, please specify in addition to the basic catalogue number:
the type of current: voltage / frequency + the version: with or without connector

Examples: • with connector 24V DC : **30211007**--D 24V DC
• without connector 24V DC : **30211007**--P 24V DC

All leaflets are available on: **www.asconumatics.eu**

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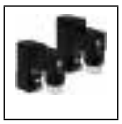
OPTIONS AND ACCESSORIES

- Seals and disc made of FPM (fluoroelastomer)
- Versions without manual operator and NO (Normally Open): contact us
- Version with pneumatic-electric interface
- Version 12 V DC, LP2, connector DIN 43650, 9,4 mm, industry standard B
- Connector ISO 15217 / DIN 43650, 8 mm, form C:
  - standard: catalogue number **88130211**
  - with cable 2 m length: catalogue number **88130214**
- Connector DIN 43650, 9,4 mm, form C:
  - standard: catalogue number **88143581**
  - with cable 2 m length: catalogue number **88143567**
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX Directive 94/9/EC (see “Explosionproof solenoids” section)

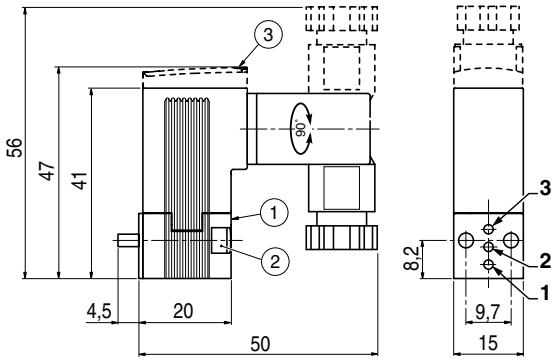
INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valve supplied with mounting screws and mounting pad seal(s)
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)



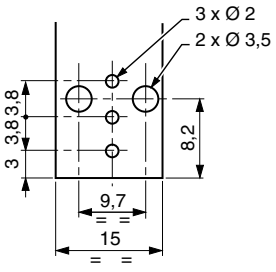
TYPE 01
IEC 335 / DIN 43650
IP65



	connection		
function	**1**	**2**	**3**
NC	P	O	-

P: Pressure
O: Outlet

Subbase mounting surface: ISO 15218
(CNOMO E06.36.120N, size 15)



① Manual operator location
② 2 mounting screw M3 x 20
③ Version with LED and electrical protection

weight (1)
0,047

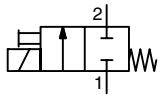
(1) with standard connector.

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MINI-SOLENOID VALVES

ISO 15218 (CNOMO, size 15) interface
direct operated, pad mounting body
connection M12 or with cable ends

NC



2/2
Series
302



FEATURES

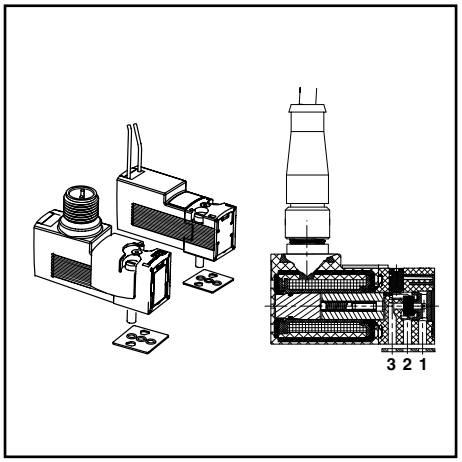
- *Compact, monobloc solenoid pilot valve with M12 connector or cable ends*
- *Version with integrated LED indicator and electrical protection.*
  LED indicator visible from 3 sides
- *The solenoid valves satisfy all relevant EC directives*

GENERAL

Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]
Pneumatic base ISO 15218 (CNOMO E06.36.120N, size 15)
Connection Subbase
Response time 8 - 15 ms

fluids (✳)	temperature range (TS)	seal materials (✳)
air or inert gas filtered at 50 µm, lubricated or not	- 25°C to + 60°C (LP2) (1)	NBR (nitrile) FPM (fluoroelastomer)

(1) LP2: see "electrical characteristics" table



MATERIALS IN CONTACT WITH FLUID

(✳) Ensure that the compatibility of the fluids in contact with the materials is verified
Body PAA
Internal parts POM, PET, stainless steel and brass
Pneumatic interface seal TPE

OTHER MATERIALS

Coil Thermoplastic PET

ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connection Connector M12 or cable ends
Electrical safety IEC 335
connector M12 CNOMO E03.62.520.N
cable ends EN 60730
Electrical enclosure protection Moulded IP67 (EN 60529)
Standard voltages DC (=) : 24V

coils			power ratings (✧)				operator ambient temperature range (3) (TS)	type (2)
power ranges	voltages (V)		inrush ~	holding ~		hot/cold =		
	~	=	(VA)	(VA)	(W)	(W)	(°C)	
LP2	-	24	-	-	-	1,15 / 1,35	-25 to + 60	01-02-03

(✧) **Nominal power ratings of standard versions (with LED indicator and electrical protection)**

(2) Refer to the dimensional drawings on the following page.
(3) For joinable subbase mounting, see page 90.

SPECIFICATIONS

orifice size	flow at 6 bar l/min (ANR)		coefficient Kv		operating pressure differential (bar)		power ranges	basic catalogue number	
								manual operator	
(mm)	1 → 2	2 → 3	1 → 2	2 → 3	min.	max. (PS)		impulse	maintained
NC - Normally closed, connection M12 + LED and protection									
1,5	39	53	0,50	0,56	0	3	LP2	**30212022**	**30212023**
NC - Normally closed, cable ends + LED and protection									
1,5	39	53	0,50	0,56	0	3	LP2	**30213022**	**30213023**

When ordering:

	M12	cable
with connector	--D	
without connector	--P	
complete		--D

(to be inserted after the basic catalogue number)

Examples:
- M12 with connector : **30212022**--D
- M12 without connector : **30212022**--P
- cable ends : **30213022**--D

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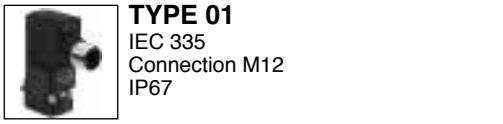
OPTIONS AND ACCESSORIES

- Seals and disc made of FPM (fluoroelastomer)
- Versions without manual operator and NO (Normally Open): contact us
- Version with pneumatic-electric interface
- Straight M12 connector:
  - with 5 m cable length: catalogue number **88130212**
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX Directive 94/9/EC (see "Explosionproof solenoids" section)

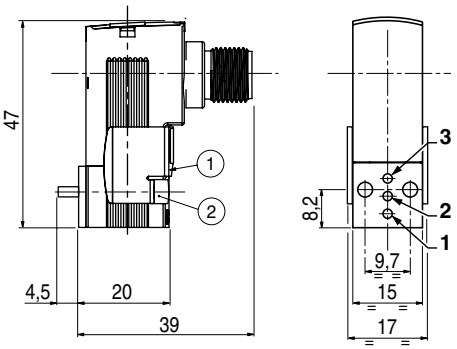
INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valve supplied with mounting screws and mounting pad seal(s)
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)

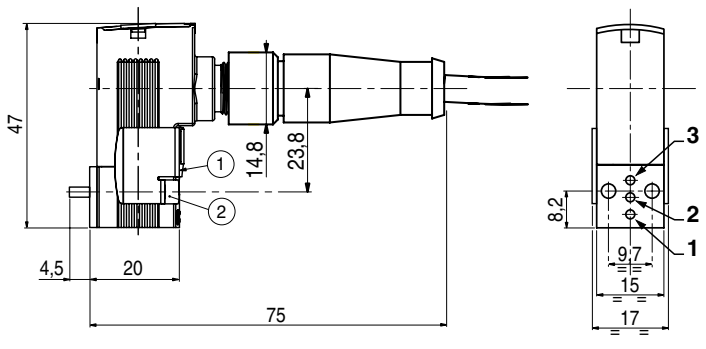


TYPE 01
IEC 335
Connection M12
IP67





TYPE 02
IEC 335
Straight M12 connector, 5 m cable length
IP67



① Manual operator location.

② 2 mounting screw M3 x 20

weight		
M12 (1)		cable ends
(1)	(2)	
0,049	0,288	0,040

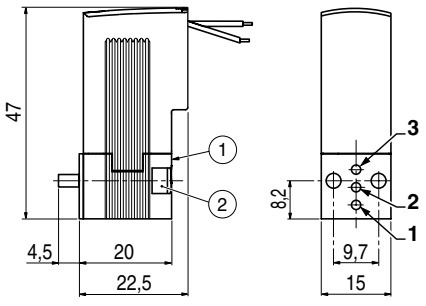
(1) Without connector
(2) With connector

	connection		
function	1	2	3
NC	P	O	-

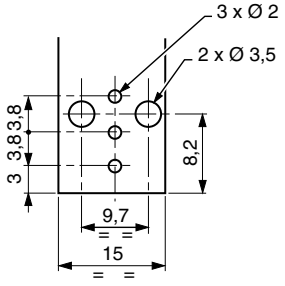
P: Pressure O: Outlet



TYPE 03
IEC 335
Cable ends 0,3 m length
IP67



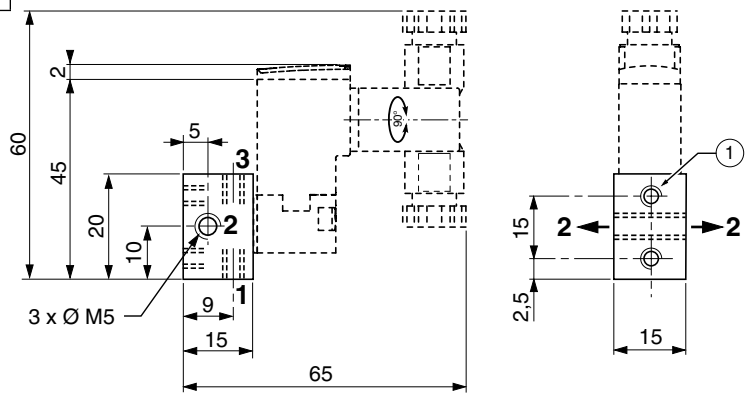
Subbase mounting surface: ISO 15218
(CNOMO E06.36.120N, size 15)



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DIMENSIONS (mm), WEIGHT (kg)

Single subbase
Aluminium or brass



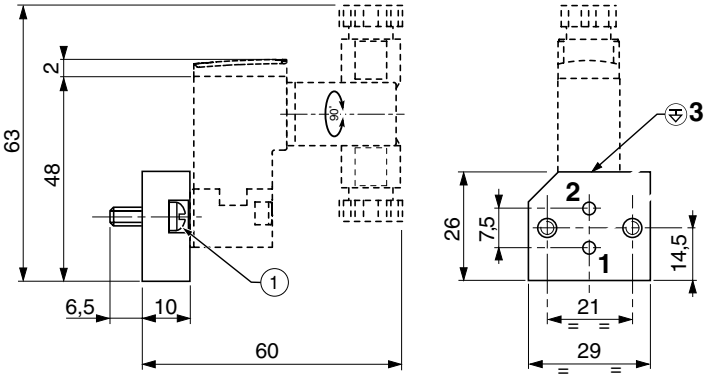
① Mounting: 2 holes M3, depth 4,5

Orifice (2) can be connected on the left or on the right of the subbase.

material	catalogue number	weight (1)
aluminium	**88263002**	0,011
brass	**30300001**	0,034

(1) subbase alone

Adapter CNOMO size 30
(**only for NC version**)
Aluminium

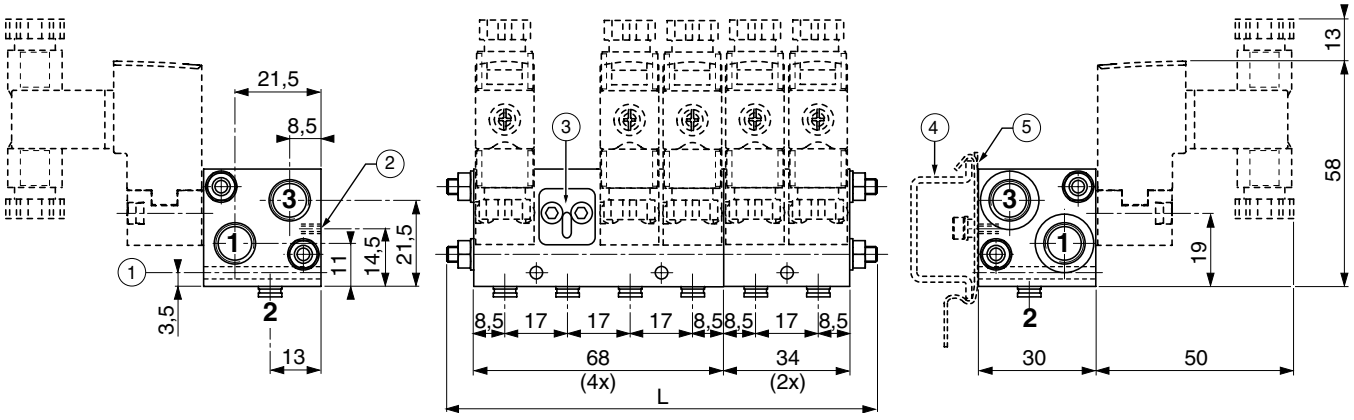


① Mounting: 2 screws M4 x 10 (supplied)

catalogue number	weight (2)
88263001	0,018

(2) adapter alone

Joinable subbases
Aluminium



Ports 1 and 3: G1/8

Port 2: coupling for 4mm OD tube

① Fixing hole Ø 3,2 (2 for 4x ; 1 for 2x)
② Fixing hole M3, depth 8 (2 for 4x ; 1 for 2x)
③ Mating surface blanking plates (option)
④ TS35 DIN rail (not supplied)
⑤ Clip for DIN rail mounting (option)

catalogue number	x	subbases	L	weight (3)
35500564	2	2x	-	0,076
35500565	4	4x	-	0,148
35500566	6	4x + 2x	114	0,236
35500567	8	4x + 4x	148	0,313
35500568	10	4x + 4x + 2x	182	0,389
35500569	12	4x + 4x + 4x	216	0,466

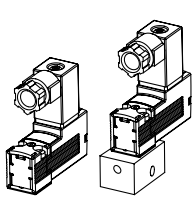
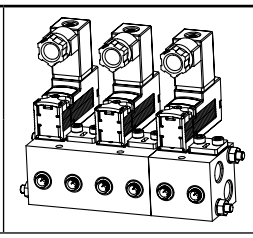
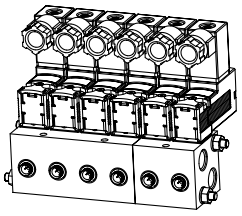
(3) subbases alone
x = place for mini-solenoid valves.
2 plugs R1/8 supplied.

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OPTIONS AND ACCESSORIES

- Additional subbase with 2 places (with seals): catalogue number **35500570**
- 2 tie-rods + nuts for a subbase with:
  4 places: catalogue number **88100752**
  6 places: catalogue number **88100753**
  8 places: catalogue number **88100754**
  10 places: catalogue number **88100755**
  12 places: catalogue number **88100756**
- Mounting kit for DIN rail (2 clips + screws + washers): catalogue number **88100757**
- Mating surface blanking plate: catalogue number **88130203**

AMBIENT TEMPERATURE RANGES

current type	power range	power coil		version			
		inrush/ holding (VA) ~	hot/cold (W) =				
DC (=)	LP2 (1)	-	1/1,2	standard	-25°C ; +60°C		-25°C ; +60°C
		-	1,15/1,35	LED + protection			-25°C ; +40°C
	LP3 (2)	-	2/2,65	standard	-25°C ; +50°C		-25°C ; +40°C
		-	2,15/2,8	LED + protection	-25°C ; +40°C		-
AC (~)	LP2 (2)	1,4/1,2	-	standard	-25°C ; +60°C		-25°C ; +40°C
		1,8/1,6	-	LED + protection			
	LP3 (2)	2,1/1,6	-	standard	-25°C ; +60°C		-25°C ; +40°C
		2,5/2	-	LED + protection	-25°C ; +50°C		-

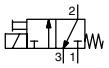
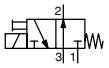
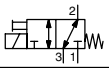
(1) Voltage: -15% / +20%

(2) Voltage: -15% / +10%

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MINI-SOLENOID VALVES

ISO 15218 (CNOMO, size 15) interface
direct operated, pad mounting body
connector size 15

NC 
NO 
U 

3/2
Series
302



FEATURES

- *Compact, monobloc solenoid pilot valve with spade-plug connector type* DIN 43650*, industry standard form C, with 9,4 mm spacing, or to ISO 15217/DIN 43650 form C, with 8 mm spacing*
- *Version with or without integrated LED and electrical protection LED indicator visible from 3 sides*
- *The solenoid valves satisfy all relevant EC directives*

GENERAL

Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]
Pneumatic base ISO 15218 (CNOMO E06.36.120N, size 15)
Connection Subbase
Response time 8 - 15 ms

fluids (✳)	temperature range (TS)	seal materials (✳)
air or inert gas filtered at 50 µm, lubricated or not	-10°C to +50°C (LP1) (1)	NBR (nitrile) FPM (fluoroelastomer)
	-25°C to +60°C (LP2) (1)	
	-25°C to +60°C /+50°C (LP3) (1)	

(1) LP1, LP2, LP3: see "electrical characteristics" table

MATERIALS IN CONTACT WITH FLUID

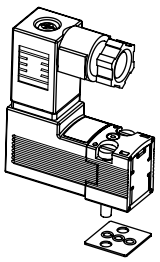
(✳) Ensure that the compatibility of the fluids in contact with the materials is verified
Body PARA
Internal parts POM, PET, stainless steel and brass
Seals NBR (disc), FPM (others)
Pneumatic interface seal TPE

OTHER MATERIALS

Coil Thermoplastic PET

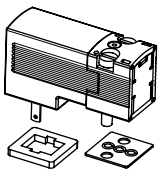
ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connector Spade plug (cable Ø 4-6 mm)
Connector specification DIN 43650, 9,4 mm, form C
or ISO 15217 / DIN 43650, 8 mm, form C
Electrical safety IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529)
Standard voltages DC (=) : 24V
(Other voltages on request) AC (~) : 24V - 115V - 230V / 50-60 Hz



PNEUMATIC CNOMO interface (standard)

PNEUMATIC-ELECTRIC interface (available on request)



coils			power ratings (✧)				operator ambient temperature range (4) (TS)	type (2)
power ranges	voltages (V)		inrush ~	holding ~		hot/cold =		
	~	=	(VA)	(VA)	(W)	(W)	(°C)	
LP1	-	24	-	-	-	0,5 / 0,55	-10 to +50	01
LP2	24-115	24	1,4	1,2	1,1	1 / 1,2	-25 to +60	
LP3	230	24	2,1	1,6	1,5	2 / 2,65	-25 to +60 (~)/+50 (=)(3)	

(2) Refer to the dimensional drawings on the following page.. (3) With LED, see page 96 (4) For joinable subbase mounting, see page 96.

(✧) **Nominal power ratings of versions without LED indicator and electrical protection.**
For versions with LED indicator and electrical protection, add:
0,15 W with DC (=)
0,4 W / VA with AC (~)

SPECIFICATIONS (NO and U, following page)

orifice size	flow at 6 bar l/min (ANR)		flow coefficient Kv		operating pressure differential (bar)		power ranges	basic catalogue number					
								manual operator					
								impulse			maintained		
								9,4 mm		8 mm	9,4 mm		8 mm
(mm)	1 → 2	2 → 3	1 → 2	2 → 3	min.	max. (PS)		~	=	=	~	=	=
NC - Normally closed (Without LED and protection)													
0,6	11	20	0,11	0,26	0	8	LP1	-	**30211106**	-	-	**30211107**	-
					0	10	LP2	**30211109**		**30210109**	**30211110**		**30210110**
0,8	17	28	0,22	0,35	0	8	LP2	**30211112**		**30210112**	**30211113**		**30210113**
1,1	32	51	0,35	0,50	0	5	LP2	**30211118**		**30210118**	**30211119**		**30210119**
					0	10	LP3	**30211121**		**30210121**	**30211122**		**30210122**
1,5	39	53	0,50	0,56	0	3	LP2	**30211124**		**30210124**	**30211125**		**30210125**
					0	6	LP3	**30211127**		**30210127**	**30211128**		**30210128**
NC - Normally closed (With LED and protection) (5)													
0,6	11	20	0,11	0,26	0	10	LP2	**30215109**		**30214109**	**30215110**		**30214110**
0,8	17	28	0,22	0,35	0	8	LP2	**30215112**		**30214112**	**30215113**		**30214113**
1,1	32	51	0,35	0,50	0	5	LP2	**30215118**		**30214118**	**30215119**		**30214119**
					0	10	LP3	**30215121**		-	**30215122**		-
1,5	39	53	0,50	0,56	0	3	LP2	**30215124**		**30214124**	**30215125**		**30214125**
					0	6	LP3	**30215127**		-	**30215128**		-

(5) Only available in 24 V AC/DC and 115 V AC.

When ordering, please specify in addition to the basic catalogue number:
the type of current: voltage / frequency + the version: with or without connector

	~	=
with connector	--A	--D
without connector	--L	--P

to be inserted after the basic catalogue number

Examples: • with connector 24V DC : **30211109**--D 24V DC
• without connector 24V DC : **30211109**--P 24V DC

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SPECIFICATIONS: NO, U

orifice size	flow at 6 bar l/min (ANR)		flow coefficient Kv		operating pressure differential (bar)		power ranges	basic catalogue number			
								manual operator			
								impulse		maintained	
								9,4 mm	8 mm	9,4 mm	8 mm
(mm)	1 → 2	2 → 3	1 → 2	2 → 3	min.	max. (PS)		~ =	=	~ =	=
NO - Normally open (Without LED and protection)											
0,8	20	17	0,26	0,20	0	8	LP2	**30211130**	**30210130**	**30211131**	**30210131**
					0	10	LP2	**30211133**	**30210133**	**30211134**	**30210134**
1	28	32	0,35	0,35	0	5	LP2	**30211136**	**30210136**	**30211137**	**30210137**
					0	8	LP3	**30211139**	**30210139**	**30211140**	**30210140**
1,5	53	39	0,56	0,50	0	2	LP2	**30211142**	**30210142**	**30211143**	**30210143**
					0	6	LP3	**30211145**	**30210145**	**30211146**	**30210146**
NO - Normally open (With LED and protection) (5)											
0,8	20	17	0,26	0,20	0	8	LP2	**30215130**	**30214130**	**30215131**	**30214131**
					0	10	LP2	**30215133**	**30214133**	**30215134**	**30214134**
1	28	32	0,35	0,35	0	5	LP2	**30215136**	**30214136**	**30215137**	**30214137**
					0	8	LP3	**30215139**	-	**30215140**	-
1,5	53	39	0,56	0,50	0	2	LP2	**30215142**	**30214142**	**30215143**	**30214143**
					0	6	LP3	**30215145**	-	**30215146**	-
	1 ↔ 2	2 ↔ 3	1 ↔ 2	2 ↔ 3							
U - universal (Without LED and protection)											
0,8	17	20	0,20	0,26	0	6	LP2	**30211148**	**30210148**	**30211149**	**30210149**
U - universal (With LED and protection) (5)											
0,8	17	20	0,20	0,26	0	6	LP2	**30215148**	**30214148**	**30215149**	**30214149**

(5) Only available in 24 V AC/DC and 115 V AC.

When ordering, please specify in addition to the basic catalogue number:
the type of current: voltage / frequency + the version: with or without connector

	~	=
with connector	--A	--D
without connector	--L	--P

to be inserted after the basic catalogue number

Examples:
- with connector 24V DC : **30211130**--D 24V DC
- without connector 24V DC : **30211130**--P 24V DC

OPTIONS AND ACCESSORIES

- Seals and disc made of FPM (fluoroelastomer)
- Versions without manual operator and Uv (Universal vacuum): contact us
- Version with pneumatic-electric interface
- Version 12 V DC, LP2, connector DIN 43650, 9,4 mm, industry standard B
- Connector ISO 15217 / DIN 43650, 8 mm, form C:
  - standard: catalogue number **88130211**
  - with cable 2 m length: catalogue number **88130214**
- Connector EN 175301-803 industry standard form C (9,4 mm):
  - standard: catalogue number **88143581**
  - with cable 2 m length: catalogue number **88143567**
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX Directive 94/9/EC (see "Explosionproof solenoids" section)

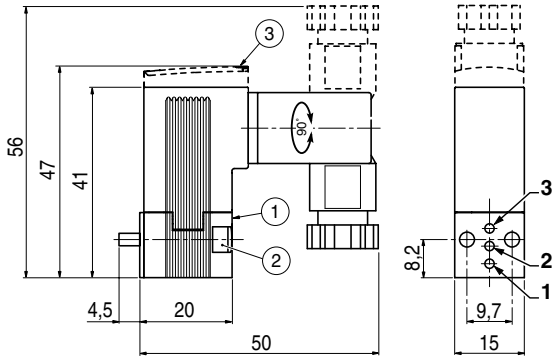
INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valve supplied with mounting screws and mounting pad seal(s)
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)



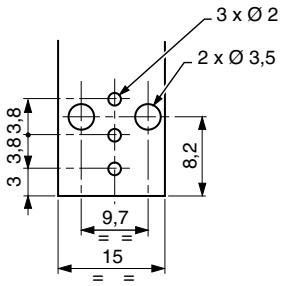
TYPE 01
IEC 335 / DIN 43650
IP65



function		connection 1	2	3
	NC	P	O	E
	NO	E	O	P
universal	MIX	P2	O	P1
universal	SEL	O 2	P	O 1

P: Pressure O: Outlet
E: Exhaust

Subbase mounting surface: ISO 15218 (CNOMO E06.36.120N, size 15)



weight (1)
0,047

(1) with standard connector.

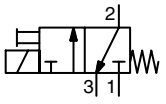
① Manual operator location
② 2 mounting screw M3 x 20
③ Version with LED and electrical protection

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MINI-SOLENOID VALVES

ISO 15218 (CNOMO, size 15) interface
direct operated, pad mounting body
connection M12 or with cable ends

NC



3/2
Series
302



FEATURES

- *Compact, monobloc solenoid pilot valve with M12 connector or cable ends*
- *Version with integrated LED indicator and electrical protection. LED indicator visible from 3 sides*
- *The solenoid valves satisfy all relevant EC directives*

GENERAL

Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]
Pneumatic base ISO 15218 (CNOMO E06.36.120N, size 15)
Connection Subbase
Response time 8 - 15 ms

fluids (∗)	temperature range (TS)	seal materials (∗)
air or inert gas filtered at 50 µm, lubricated or not	-25°C to +60°C (LP2) (1)	NBR (nitrile) FPM (fluoroelastomer)

(1) LP2: see "electrical characteristics" table

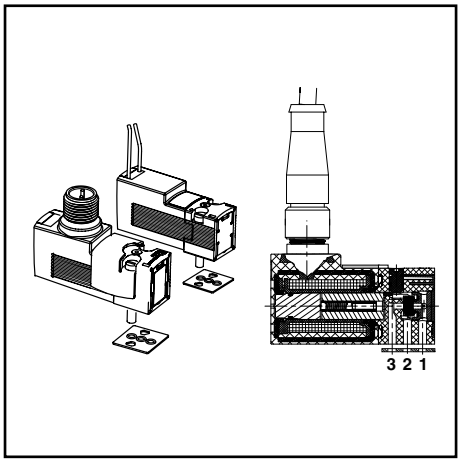
MATERIALS IN CONTACT WITH FLUID

(∗) Ensure that the compatibility of the fluids in contact with the materials is verified

Body PAA
Internal parts POM, PET, stainless steel and brass
Pneumatic interface seal TPE

OTHER MATERIALS

Coil Thermoplastic PET



ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connection Connector M12 or cable ends
Electrical safety IEC 335
connector M12 CNOMO E03.62.520.N
cable ends EN 60730
Electrical enclosure protection Moulded IP67 (EN 60529)
Standard voltages DC (=) : 24V

coils			power ratings (✧)				operator ambient temperature range (3) (TS)	type (2)
power ranges	voltages (V)		inrush ~	holding ~		hot/cold =		
	~	=	(VA)	(VA)	(W)	(W)	(°C)	
LP2	-	24	-	-	-	1,15 / 1,35	-25 to +60	01-02-03

(2) Refer to the dimensional drawings on the following page. (3) For joinable subbase mounting, see page 96.

(✧) **Nominal power ratings of standard versions (with LED indicator and electrical protection)**

SPECIFICATIONS

orifice size	flow at 6 bar l/min (ANR)		coefficient Kv		operating pressure differential (bar)		power ranges	basic catalogue number	
								manual operator	
(mm)	1 → 2	2 → 3	1 → 2	2 → 3	min.	max. (PS)		impulse	maintained
NC - Normally closed, connection M12 + LED and protection									
0,6	11	20	0,11	0,26	0	10	LP2	**30212109**	**30212110**
0,8	17	28	0,22	0,35	0	8	LP2	**30212112**	**30212113**
1,1	32	51	0,35	0,50	0	5	LP2	**30212118**	**30212119**
1,5	39	53	0,50	0,56	0	3	LP2	**30212124**	**30212125**
NC - Normally closed, cable ends + LED and protection									
0,6	11	20	0,11	0,26	0	10	LP2	**30213109**	**30213110**
0,8	17	28	0,22	0,35	0	8	LP2	**30213112**	**30213113**
1,1	32	51	0,35	0,50	0	5	LP2	**30213118**	**30213119**
1,5	39	53	0,50	0,56	0	3	LP2	**30213124**	**30213125**

When ordering:

	M12	cable	
with connector	--D		to be inserted after the basic catalogue number
without connector	--P		
complete		--D	

Examples:
- M12 with connector : **30212109**--D
- M12 without connector : **30212109**--P
- cable ends : **30213109**--D

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OPTIONS AND ACCESSORIES

- Seals and disc made of FPM (fluoroelastomer)
- Versions without manual operator, NO (Normally Open), U (Universal) and Uv (Universal vacuum): contact us
- Version with pneumatic-electric interface
- Straight M12 connector:
  - with 5 m cable length: catalogue number **88130212**
- Explosionproof enclosures for use in zones 0/20-1/21-2/22, categories 1-2-3 to ATEX Directive 94/9/EC (see "Explosionproof solenoids" section)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valve supplied with mounting screws and mounting pad seal(s)
- Installation/maintenance instructions are included with each valve

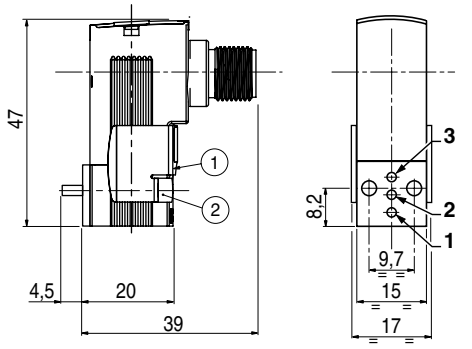
DIMENSIONS (mm), WEIGHT (kg)

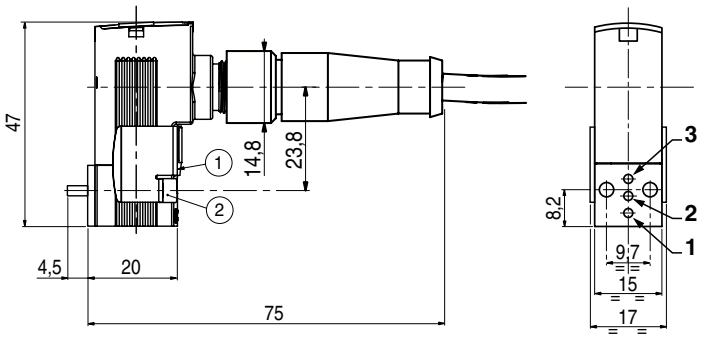


TYPE 01
IEC 335
Connection M12
IP67



TYPE 02
IEC 335 /
Straight M12 connector, 5 m cable length
IP67





(1) Manual operator location.

(2) 2 mounting screw M3 x 20

weight		
M12 (1)		cable ends
(1)	(2)	
0,049	0,288	0,040

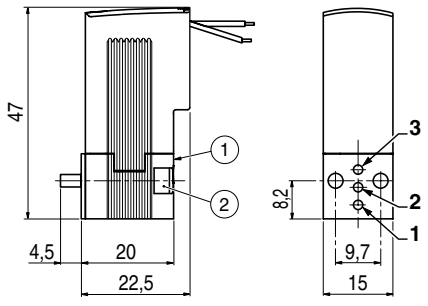
(1) Without connector
(2) With connector

	connection		
function	1	2	3
NC	P	O	E

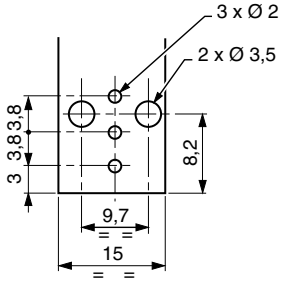
P: Pressure O: Outlet
E: Exhaust



TYPE 03
IEC 335
Cable ends 0,3 m length
IP67



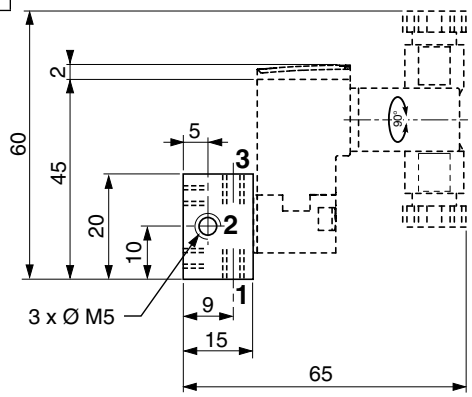
Subbase mounting surface: ISO 15218
(CNOMO E06.36.120N, size 15)



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DIMENSIONS (mm), WEIGHT (kg)

Single subbase
Aluminium or brass



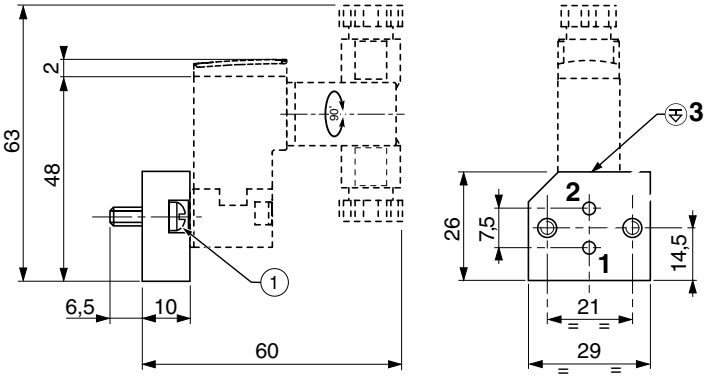
① Mounting: 2 holes M3, depth 4,5

Orifice (2) can be connected on the left or on the right of the subbase.

material	catalogue number	weight (1)
aluminium	**88263002**	0,011
brass	**30300001**	0,034

(1) subbase alone

Adapter CNOMO size 30
(**only for NC version**)
Aluminium

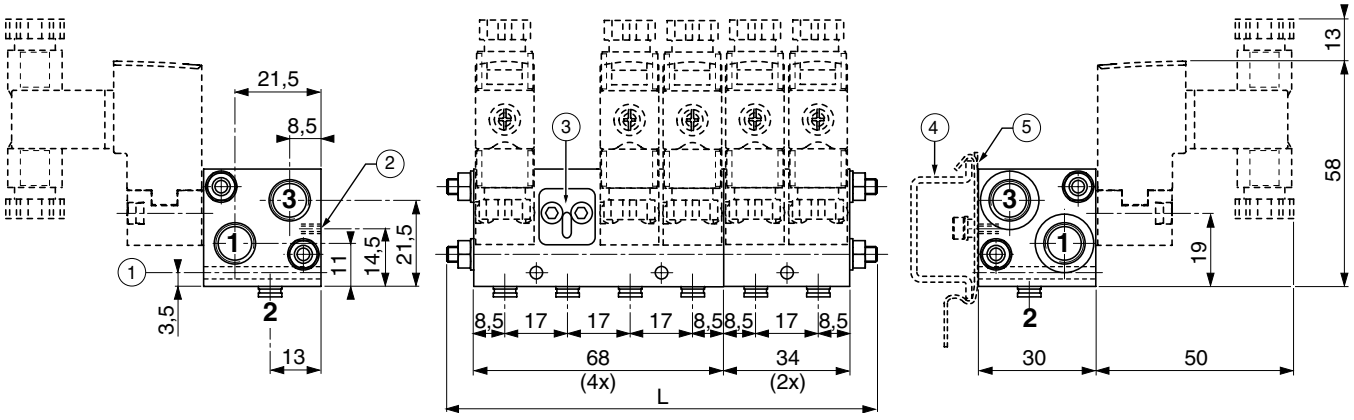


① Mounting: 2 screws M4 x 10 (supplied)

catalogue number	weight (2)
88263001	0,018

(2) adapter alone

Joinable subbases
Aluminium



Ports 1 and 3: G1/8

Port 2: coupling for 4mm OD tube

① Fixing hole Ø 3,2 (2 for 4x ; 1 for 2x)
② Fixing hole M3, depth 8 (2 for 4x ; 1 for 2x)
③ Mating surface blanking plates (option)
④ TS35 DIN rail (not supplied)
⑤ Clip for DIN rail mounting (option)

catalogue number	x	subbases	L	weight (3)
35500564	2	2x	-	0,076
35500565	4	4x	-	0,148
35500566	6	4x + 2x	114	0,236
35500567	8	4x + 4x	148	0,313
35500568	10	4x + 4x + 2x	182	0,389
35500569	12	4x + 4x + 4x	216	0,466

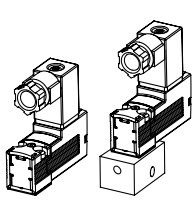
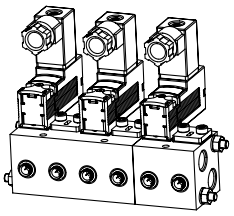
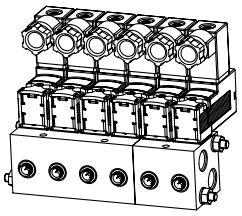
(3) subbases alone
x = place for mini-solenoid valves.
2 plugs R1/8 supplied.

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OPTIONS AND ACCESSORIES

- Additional subbase with 2 places (with seals): catalogue number **35500570**
- 2 tie-rods + nuts for a subbase with:
  4 places: catalogue number **88100752**
  6 places: catalogue number **88100753**
  8 places: catalogue number **88100754**
  10 places: catalogue number **88100755**
  12 places: catalogue number **88100756**
- Mounting kit for DIN rail (2 clips + screws + washers): catalogue number **88100757**
- Mating surface blanking plate: catalogue number **88130203**

AMBIENT TEMPERATURE RANGES

current type	power range	power coil		version			
		inrush/ holding (VA) ~	hot/cold (W) =				
DC (=)	LP1 (1)	-	0,5/0,55	standard	-10°C ; +50°C		-10°C ; +50°C
	LP2 (1)	-	1/1,2	standard	-25°C ; +60°C		-25°C ; +60°C
		-	1,15/1,35	LED + protection			-25°C ; +40°C
	LP3 (2)	-	2/2,65	standard	-25°C ; +50°C		-25°C ; +40°C
		-	2,15/2,8	LED + protection	-25°C ; +40°C		-
AC (~)	LP2 (2)	1,4/1,2	-	standard	-25°C ; +60°C		-25°C ; +40°C
		1,8/1,6	-	LED + protection			
	LP3 (2)	2,1/1,6	-	standard	-25°C ; +60°C		-25°C ; +40°C
		2,5/2	-	LED + protection	-25°C ; +50°C		-

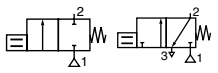
(1) Voltage: -15% / +20%

(2) Voltage: -15% / +10%

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MINI PIEZO-VALVES PIEZOTRONIC

direct operated
ISO 15218 (CNOMO, size 15) interface
pad mounting body, M5, G1/8 or instant fittings subbase

NC 

NO 

2/2-3/3
Series
630



Version with wires
Non polarized solenoid valve

SPECIFICATIONS

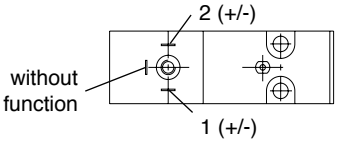
FLUIDS : air or inert gas, filtered at 25 μm, condensate free dow point -10°C
PRESSURE : 0 to 4 or 8 bar
MAX. ALLOWABLE PRESSURE (MAP) : 8 bar
FLUID TEMPERATURE : 0°C to +60° C
AMBIENT TEMPERATURE : 0°C to +60° C
STORAGE TEMPERATURE : -40°C to +60°C
BASE : ISO 15218 (CNOMO E06.36.120N, size15) or ISO 15218 (CNOMO E06.05.80, size 30) with adapter
MOUNTING : on subbases ØM5, G1/8 or instant fittings
SERVICE LIFE : > 10^9 cycles at 6 bar
MOUNTING POSITION : all

CONSTRUCTION

Body : synthetic material (PPS)
Internal parts : piezo ceramics
Sealings : nitrile (NBR)
Manual override : without or impulse type
Subbase : brass, polyamide, zinc diecast

ELECTRICAL CONNECTION

version with pins
Non polarized solenoid valve

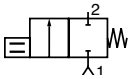
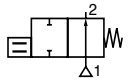
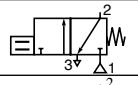
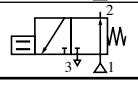


ELECTRICAL CHARACTERISTICS

Voltage (Maximum ripple : 10 %)	Power consumption at 24 V inrush	Power consumption at 24 V hold	Response time	Protection degree	Electrical connection
24 to 70 V AC/DC ±10%	0,6 W	**0,007 W**	50 ms (DC) 70 ms (AC)	IP 65	Spade plug size 15 connector, DIN 43650, 9,4 mm, industry standard B, rotatable by 90°, Option : with wires, length 1 m

Switching current = 25 mA/30ms

SPECIFICATIONS

Symbols Functions		Flow at 6 bar l/min (ANR)	Flow Coefficient Kv	Allowable differential pressure (Δ p in bar) min.	Allowable differential pressure (Δ p in bar) max.	(M)	catalogue number PIEZOTRONIC with pins **with** standard connector	catalogue number PIEZOTRONIC with 2 wires, 1m long
2/2 NC		6	0,086	0	8	X ▼	**63000065 63000071**	**63000015 63000021**
		6,5(1)	0,12	0	**4**	X ▼	**63000067 63000073**	**63000017 63000023**
2/2 NO		6	0,086	0	8	X ▼	**63000066 63000072**	**63000016 63000022**
		6,5(1)	0,12	0	**4**	X ▼	**63000068 63000074**	**63000018 63000024**
3/2 NC		7	0,10	2	8	X ▼	**63000063 63000069**	**63000013 63000019**
3/2 NO		6	0,086	2	8	X ▼	**63000064 63000070**	**63000014 63000020**

(M) Manual operator: X : without ▼ : Impulse
(1) Flow at **4** bar in l/min (ANR)

SUBBASES: Single subbase with lateral connection Ø M5 - cat no.: **88263002**
Single subbase - connection G1/8 - cat no.: **35300047**
Joinable subbase - connection G1/8 - cat no.: **35300048**

OPTION : Minivalve operated, intrinsically safe EEx **ia**, 12V - 24V DC

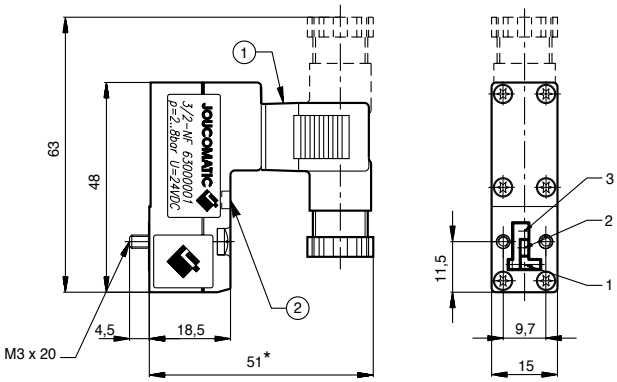
ACCESSORIES

DESCRIPTION	catalogue number
Visual indicator LED (Caution, consumption 0,25W and **voltage 24V max.**)	**88130401**
Plug size 15 with 2 m cable	**88143567**
Plug size 15 with built-in visual indicator (LED), with 2 m cable **24V =/~ max.**	**88143580**
Adapter for mounting PIEZOTRONIC on base ISO 15218 (CNOMO E06.05.80, size 30)	**88263001**

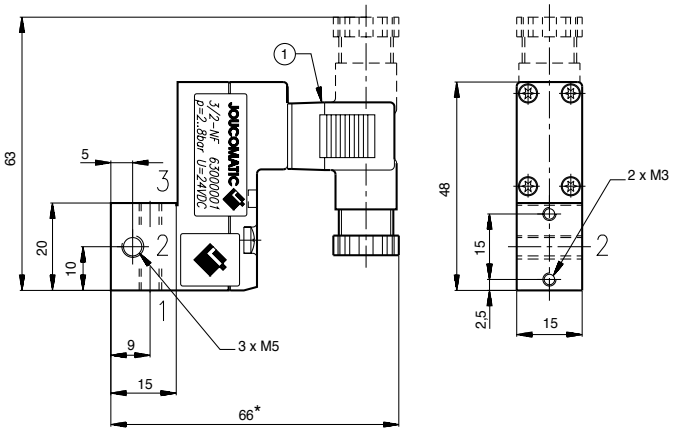
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DIMENSIONS AND WEIGHTS

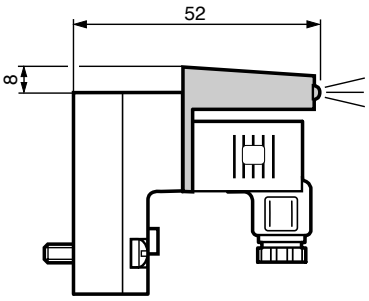
MINI PIEZO-VALVE WITH STANDARD CONNECTOR
Weight : 24 g without connector
34 g with connector



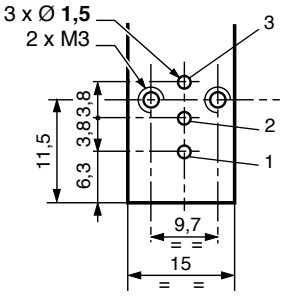
MINI PIEZO-VALVE ON SINGLE SUBBASE **88263002**
Weight : 45 g



ASSEMBLY WITH LED INDICATOR
(accessory, rotatable x180°)



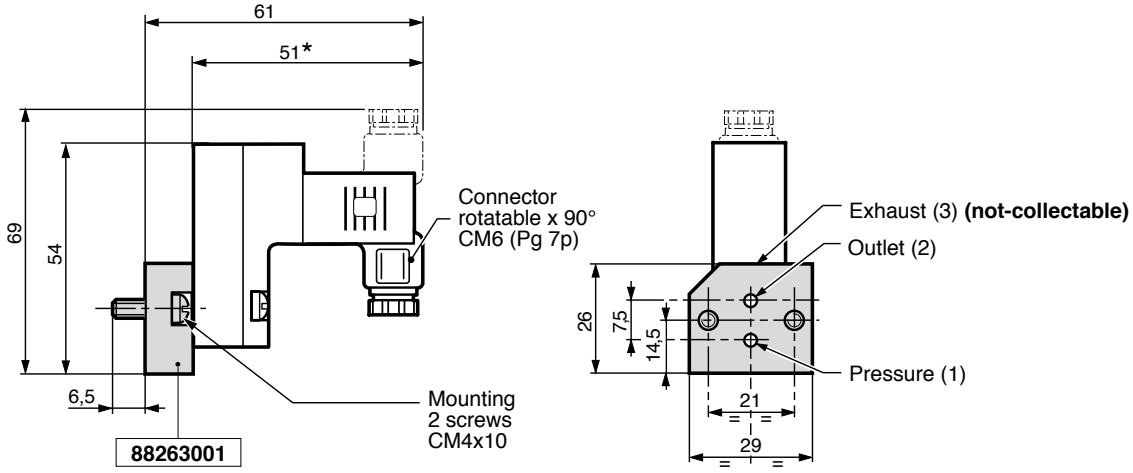
MOUNTING FACE
Subbase for mini piezo-valve ISO 15218 (CNOMO E06.36.120N, size15)



Single subbase connection :
Outlet (2) can be connected on the left or on the right of subbase ; closed unused port with a Ø M5 plug (supplied).

(1) Connector size 15 rotatable by 90°
(2) Manual operator by impulse
(✳) + 10 mm for clearance

MINI VALVE + Intermediate subbase (**Adapter** CNOMO size 30 : cat no.: **88263001**)
Total weight : 53 g



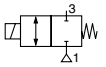
❇ + 10 mm for clearance

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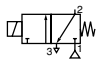
SOLENOID VALVES

direct operated, quick switching
manifold mount, pad-mount or inline version,
or push-in hose connection

2/2 NC



3/2 NC



2/2
3/2
Series
RB



FEATURES

- *Miniature solenoid valves for medical and gas analysers and leak detectors*
- *Suitable for the control of gases*
- *The valves have a service life of more than 100 million cycles when used with inert gas*
- *Short response times*
- *Easy to integrate thanks to the valve's small size*
- *Available in a variety of versions for a wide range of applications: threaded connections or pad-mount for installation on multiple manifolds*
- *Vacuum application up to -0.1 bar*
- *Low power consumption and light weight offers extended battery life for portable devices*
- *Multiple body configurations to suit all application needs*

GENERAL

Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]
Response time < 10 ms

fluids (⁎)	temperature range (TS)	seal materials (⁎)
air, inert gases (filtered 10 µm)	0 °C to +60 °C	FPM (fluoroelastomer) NBR (nitrile)

MATERIALS IN CONTACT WITH FLUID

(⁎) Ensure that the compatibility of the fluids in contact with the materials is verified

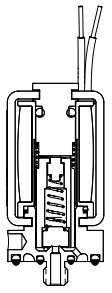
Body PBT, brass
Internal parts Stainless steel
Seat PBT, brass
Seals FPM, NBR

ELECTRICAL CHARACTERISTICS

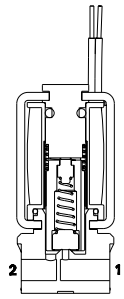
Coil insulation class B (130°C)
Connection Cable ends 26 AWG or circuit board mount
Electrical safety IEC 335
Electrical enclosure protection IP30 (EN 60529)
Standard voltages DC (=) : 5V - 12V - 24V

prefix option	power ratings: inrush ~	power ratings: holding ~		power ratings: hot/cold =	operator ambient temperature range (TS)	raplacement coil	
	(VA)	(VA)	(W)	(W)	(C°)		
-	-	-	-	0,5 / 1,0 / 2.0	0 to +60	-	-

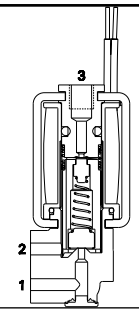
(1) Refer to the dimensional drawings on the following page.



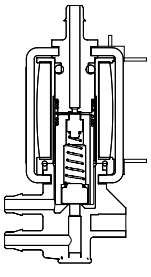
2/2 NC manifold mount



2/2 NC line mount



3/2 NC pad mount



3/2 NC push-in hose connection

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SPECIFICATIONS

pipe size	orifice size (mm)	flow coefficient Kv		operating pressure differential (bar)		power coil (W)	catalogue number
				min,	max, (PS) air, inert gas (✳)		
		(m^3/h)	(l/min)		=	=	
2/2 NC - Normally closed							
10-32 UNF Stud Manifold Mount, Brass (M)	0,8	0,021	0,35	-0,9	3,4	0,5	**RLM20xx30x**
	0,8	0,021	0,35	-0,9	6,9	2,0	**RHM20xx30x**
	1,3	0,047	0,78	-0,9	1,7	0,5	**RLM20xx50x**
	1,3	0,047	0,78	-0,9	3,4	1,0	**RMM20xx50x**
	1,3	0,047	0,78	-0,9	6,9	2,0	**RHM20xx50x**
	2,0	0,07	1,16	-0,9	1,7	2,0	**RHM20xx80x**
10-32 UNF Female In-Line, Brass (L)	0,8	0,021	0,35	-0,9	3,4	0,5	**RLL20xx30x**
	0,8	0,021	0,35	-0,9	6,9	2,0	**RHL20xx30x**
	1,3	0,047	0,78	-0,9	1,7	0,5	**RLL20xx50x**
	1,3	0,047	0,78	-0,9	3,4	1,0	**RML20xx50x**
	1,3	0,047	0,78	-0,9	6,9	2,0	**RHL20xx50x**
	2,0	0,07	1,16	-0,9	1,7	2,0	**RHL20xx80x**
3,17 mm Push-in Hose Connecton PBT (B)	0,8	0,021	0,35	-0,9	1,0	0,5	**RLB20xx30x**
	0,8	0,021	0,35	-0,9	3,4	1,0	**RMB20xx30x**
	0,8	0,021	0,35	-0,9	6,9	2,0	**RHB20xx30x**
	1,3	0,047	0,78	-0,9	0,7	0,5	**RLB20xx50x**
	1,3	0,047	0,78	-0,9	2,4	1,0	**RMB20xx50x**
	1,3	0,047	0,78	-0,9	4,8	2,0	**RHB20xx50x**
	2,0	0,07	1,16	-0,9	1,7	2,0	**RHB20xx80x**
Pad Mount, PBT (F)	0,8	0,021	0,35	-0,9	1,0	0,5	**RLF20xx30x**
	0,8	0,021	0,35	-0,9	3,4	1,0	**RMF20xx30x**
	0,8	0,021	0,35	-0,9	6,9	2,0	**RHF20xx30x**
	1,3	0,047	0,78	-0,9	0,7	0,5	**RLF20xx50x**
	1,3	0,047	0,78	-0,9	2,4	1,0	**RMF20xx50x**
	1,3	0,047	0,78	-0,9	4,8	2,0	**RHF20xx50x**
	2,0	0,07	1,16	-0,9	1,7	2,0	**RHF20xx80x**

HOW TO ORDER

10-DIGIT PRODUCT CODE

RLM20 **x** **x** **30** **x**

catalogue no.

voltages
4 = 5 VDC
6 = 12 VDC
7 = 24 VDC

electrical connection
H = cable ends
P = PCB pins (circuit board)

catalogue no.

seal materials
B = NBR
V = FPM
O = Oxygen service (FPM)

Ordering example: RLM204H30B = 2-way (normally closed), 5 VDC, manifold mount with 0,8 mm orifice, 0,5 watt, cable ends, NBR seals

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SPECIFICATIONS

pipe size	orifice size (mm)		flow coefficient Kv		operating pressure differential (bar)		power coil (W)	catalogue number
					min,	max, (PS) air, inert gas (✳)		
	1 → 2	2 → 3	(m^3/h)	(l/min)		=	=	
3/2 NC - Normally closed								
10-32 UNF Stud Manifold Mount, Brass (M)	0,8	1,0	0,021	0,35	-0,9	3,4	0,5	**RLM3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	6,9	2,0	**RHM3xxx34x**
	1,3	1,3	0,047	0,78	-0,9	1,0	0,5	**RLM3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	3,4	1,0	**RMM3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	6,9	2,0	**RHM3xxx55x**
	2,0	1,3	0,07 / 0,047	1,16 / 0,78	-0,9	1,7	2,0	**RHM3xxx85x**
10-32 UNF Female In-Line, Brass (L)	0,8	1,0	0,021	0,35	-0,9	3,4	0,5	**RLL3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	6,9	2,0	**RHL3xxx34x**
	1,3	1,3	0,047	0,78	-0,9	1,0	0,5	**RLL3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	3,4	1,0	**RML3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	6,9	2,0	**RHL3xxx55x**
	2,0	1,3	0,07 / 0,047	1,16 / 0,78	-0,9	1,7	2,0	**RHL3xxx85x**
3,17 mm push-in hose PBT (B)	0,8	1,0	0,021	0,35	-0,9	1,0	0,5	**RLB3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	3,4	1,0	**RMB3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	6,9	2,0	**RHB3xxx34x**
	1,3	1,3	0,047	0,78	-0,9	0,7	0,5	**RLB3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	2,4	1,0	**RMB3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	4,8	2,0	**RHB3xxx55x**
	2,0	1,3	0,07 / 0,047	1,16 / 0,78	-0,9	1,7	2,0	**RHB3xxx85x**
Pad Mount, PBT (F)	0,8	1,0	0,021	0,35	-0,9	1,0	0,5	**RLF3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	3,4	1,0	**RMF3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	6,9	2,0	**RHF3xxx34x**
	1,3	1,3	0,047	0,78	-0,9	0,7	0,5	**RLF3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	2,4	1,0	**RMF3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	4,8	2,0	**RHF3xxx55x**
	2,0	1,3	0,07 / 0,047	1,16 / 0,78	-0,9	1,7	2,0	**RHF3xxx85x**

HOW TO ORDER

10-DIGIT PRODUCT CODE

RLM3 **x** **x** **x** **30** **x**

catalogue no.

port 3 style
B = 3,17 mm push-in hose connection
F = 10-32 UNF female

voltages
4 = 5 VDC
6 = 12 VDC
7 = 24 VDC

electrical connection
H = cable ends
P = PCB pins (circuit board)

seal materials
B = NBR
V = FPM
O = Oxygen service (FPM)

catalogue no.

Ordering example: RLM3B7P34V = 3-way (normally closed), 24 VDC, port 3 with push-in hose connection, manifold mount with 0,8 mm orifice, 0.5 watt, PCB pins, FPM seals

OPTIONS

- Other voltages
- Other seal materials
- Other electrical connectors
- Oxygen service
- Other pipe connections

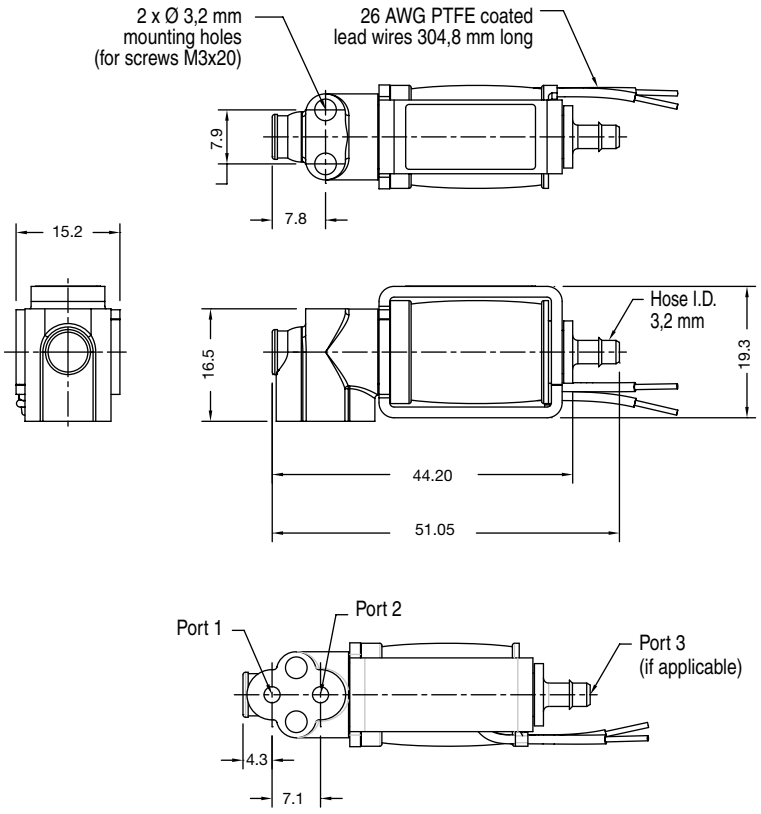
INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Threaded solenoid valves have 2 mounting holes in body
- Pad-mount valves and o-ring seals for multiple manifolds

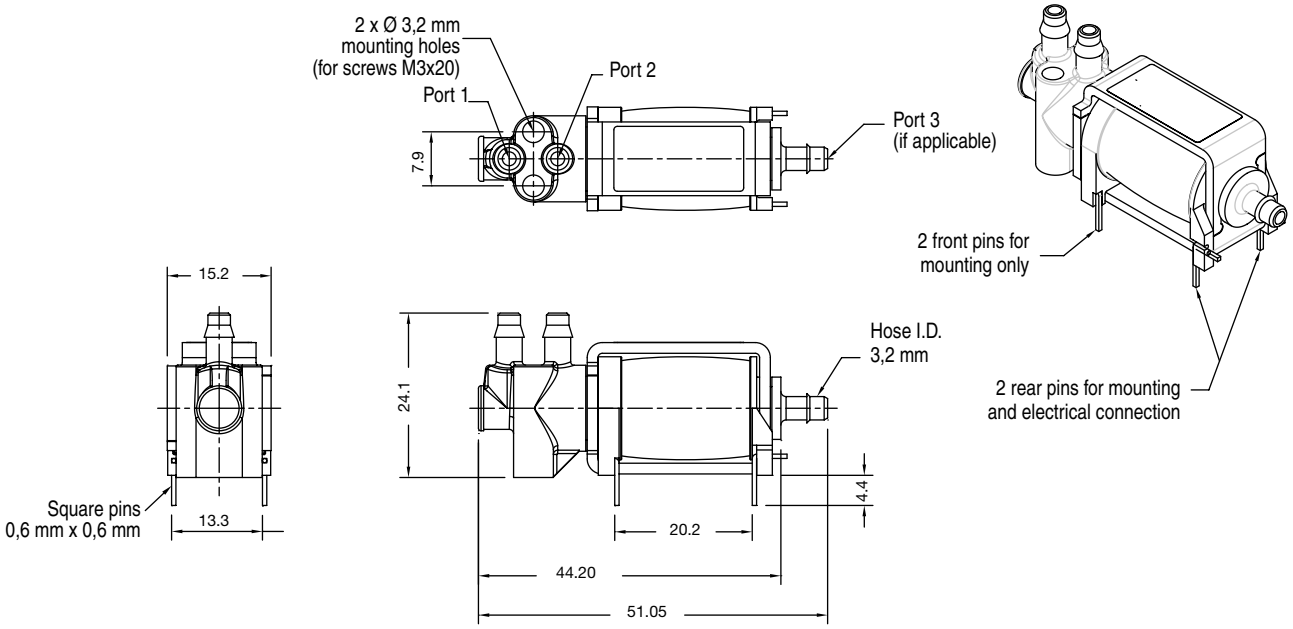
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DIMENSIONS (mm), **WEIGHT (k**g)

2- and 3-way pad mount solenoid valve



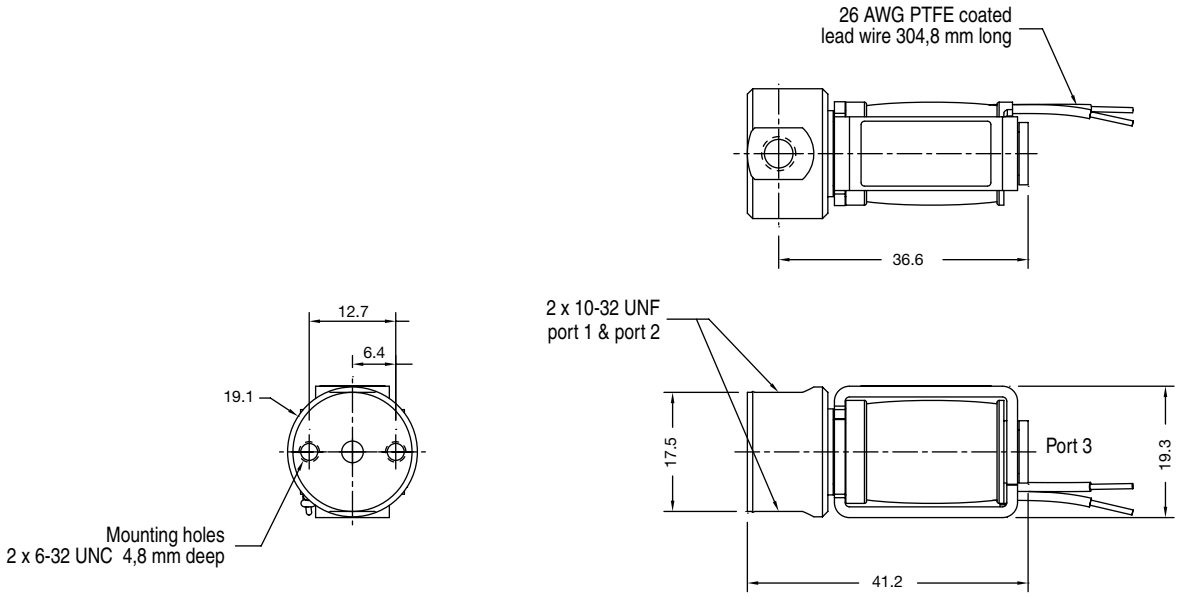
2- and 3-way solenoid valve with push-in hose connection



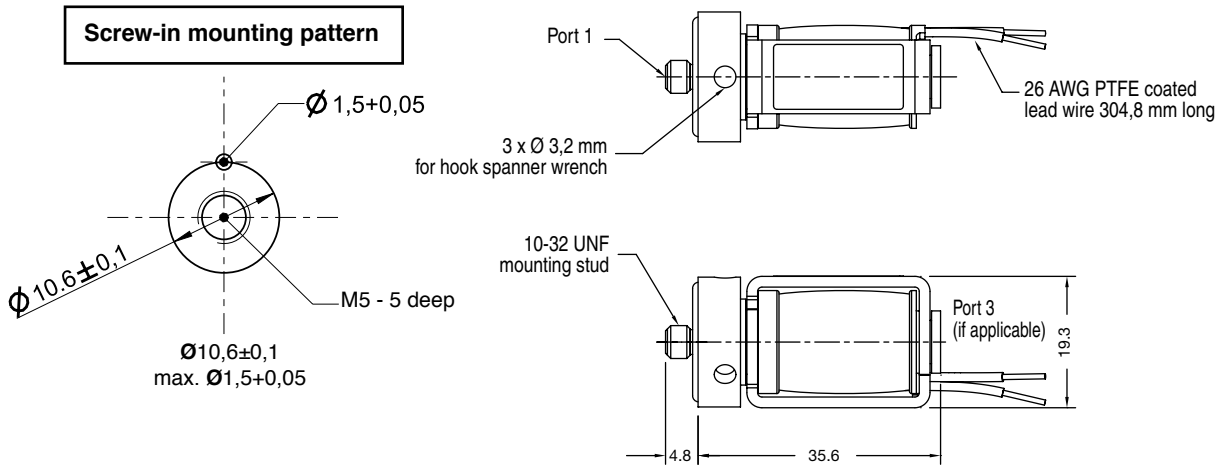
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DIMENSIONS (mm), **WEIGHT (k**g)

2- and 3-way line mount solenoid valve



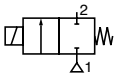
2- and 3-way manifold mount solenoid valve



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SOLENOID VALVE

direct operated, quick switching
threaded or screw-in type body
M5

NC 

2/2
Series
S



FEATURES

- *Miniature solenoid valves for medical and gas analysers and leak detectors*
- *Suitable for the control of gases*
- *Short response times*
- *Compact size for easy integration into systems*
- *Available in a variety of versions for a wide range of applications: threaded or screw-in type valve bodies for installation on multiple manifolds*
- *Approved to UL standards*
- *Vacuum application up to -0.9 bar*

GENERAL

Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]
Response time < 10 ms

fluids (✳)	temperature range (TS)	seal materials (✳)
air, inert gases (filtered 10 μm)	0 °C to +60 °C	FPM (fluoroelastomer)

MATERIALS IN CONTACT WITH FLUID

(✳) Ensure that the compatibility of the fluids in contact with the materials is verified

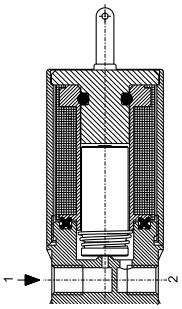
Body Stainless steel
Internal parts Stainless steel
Seals FPM (fluoroelastomer) [EPDM (ethylene-propylene), contact us]

ELECTRICAL CHARACTERISTICS

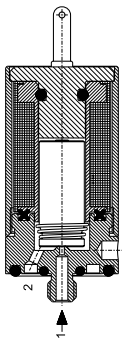
Coil insulation class B
Connection Spade plug or cable ends AWG 20, length 300 mm
Electrical safety IEC 335
Electrical enclosure protection IP40 (EN 60529)
Standard voltages DC (=) : 12V - 24V

prefix option	power ratings inrush ~	holding ~		hot/cold =	operator ambient temperature range (TS)	raplacement coil		Typ (1)
	(VA)	(VA)	(W)	(W)	(C°)			
-	-	-	-	1,5 / 1,5	-20 to +60	-	-	01

(1) Refer to the dimensional drawings on the following page.



Function NC, threaded body



Function NC, screw-in type body

SPECIFICATIONS

pipe size	orifice size	flow coefficient kv		operating pressure differential (bar) min.	operating pressure differential (bar) max. air and gases (✳)		power coil (W)		catalogue no. threaded body	catalogue no. screw-in type body
	(mm)	(m^3/h)	(l/min)		~	=	~	=	xx : see "HOW TO ORDER"	
NC - Normally closed										
M5	0,75	0,016	0,26	-0,9	-	7	-	1,5	**HSM2Lxx00V**	**HSM2Mxx00V**
	1	0,025	0,42	-0,9	-	7	-	1,5	**HSM2Lxx10V**	**HSM2Mxx10V**
	2	0,058	0,97	-0,9	-	3,5	-	1,5	**HSM2Lxx50V**	**HSM2Mxx50V**

HOW TO ORDER

10-DIGIT PRODUCT CODE

HSM2L **x** **x** **00** **V**

catalogue no.

voltages
6 = 12 VDC
7 = 24 VDC

electrical connection
F = Spade plug
H = cable ends

seal materials
V = FPM

catalogue no.

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OPTIONS

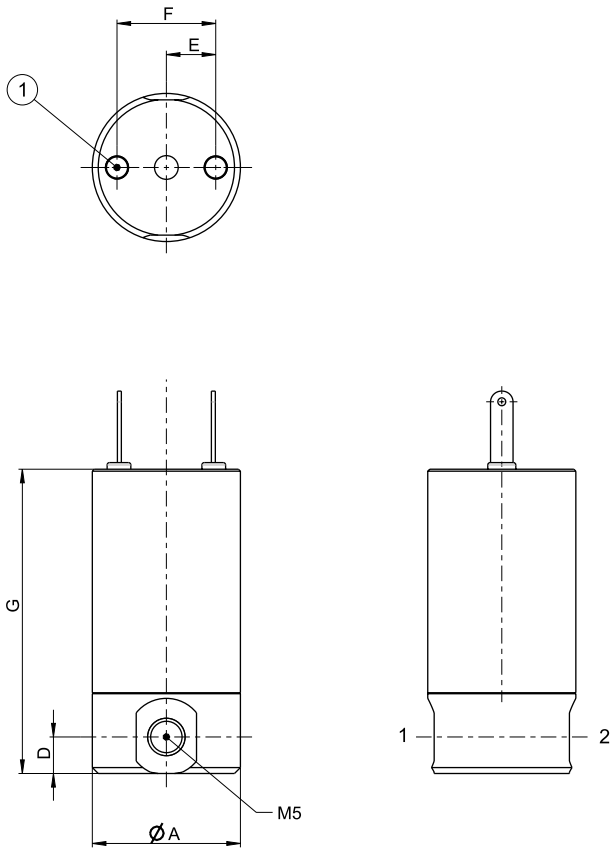
- Seals made from EPDM (ethylene-propylene) (contact us)
- Oxygen service

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Threaded solenoid valves have 2 mounting holes in body
- Screw-in type valves and o-ring seals for multiple manifolds

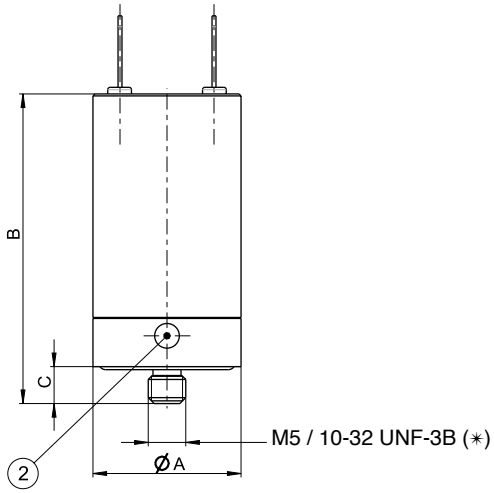
DIMENSIONS (mm), WEIGHT (kg)

HSM2Lxx00V / HSM2Lxx10V / HSM2Lxx50V
HSM2Lxx00V / HSM2Lxx10V / HSM2Lxx50V



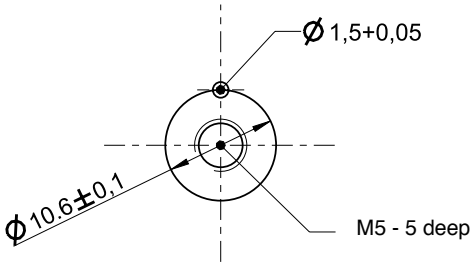
(1) 2 mounting holes Ø M3x0,5
(2) Mounting with hook spanner wrench DIN 1810B

HSM2Mxx00V / HSM2Mxx10V / HSM2Mxx50V
HSM2Mxx00V / HSM2Mxx10V / HSM2Mxx50V



(✳) Supplied with 10-32 UNF-3B male thread compatible with M5 female counter-thread

screw-in mounting pattern



Ø10,6±0,1
max. **Ø**1,5+0,05

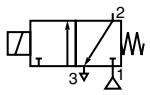
connection type	catalogue no.	A	B	C	D	E	F	G	weight
threaded body	HSM2Lxx00V/HSM2Lxx10V/HSM2Lxx50V HSM2Lxx00V/HSM2Lxx10V/HSM2Lxx50V	19,05	-	-	4,7	6,35	12,7	39,11	0,059
screw-in type body	HSM2Mxx00V/HSM2Mxx10V/HSM2Mxx50V HSM2Mxx00V/HSM2Mxx10V/HSM2Mxx50V	19,05	39,62	4,8	-	-	-	-	0,053

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SOLENOID VALVE

direct operated, quick switching
threaded or screw-in type body
M5

NC



3/2
Series
S



FEATURES

- *Miniature solenoid valves for medical and gas analysers and leak detectors*
- *Suitable for the control of gases*
- *Short response times*
- *Compact size for easy integration into systems*
- *Available in a variety of versions for a wide range of applications: threaded or screw-in type valve bodies for installation on multiple manifolds*
- *Approved to UL standards*
- *Vacuum application up to -0.9 bar*

GENERAL

Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]
Response time < 10 ms

fluids (✳)	temperature range (TS)	seal materials (✳)
air, inert gases (filtered 10 μm)	0 °C to +60 °C	FPM (fluoroelastomer)

MATERIALS IN CONTACT WITH FLUID

(✳) Ensure that the compatibility of the fluids in contact with the materials is verified

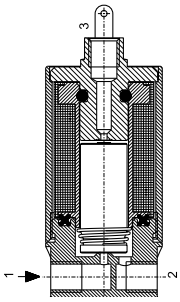
Body Stainless steel
Internal parts Stainless steel
Seals FPM (fluoroelastomer) [EPDM (ethylene-propylene), contact us]

ELECTRICAL CHARACTERISTICS

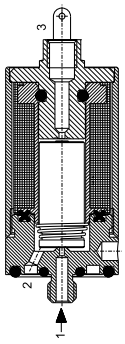
Coil insulation class B
Connection Spade plug or cable ends AWG 20, length 300 mm
Electrical safety IEC 335
Electrical enclosure protection IP40 (EN 60529)
Standard voltages DC (=) : 12V - 24V

prefix option	power ratings inrush ~	holding ~		hot/cold =	operator ambient temperature range (TS)	raplacement coil		type (1)
	(VA)	(VA)	(W)	(W)	(C°)			
-	-	-	-	1,5 / 1,5	-20 to +60	-	-	01

(1) Refer to the dimensional drawings on the following page.



Function NC, threaded body



Function NC, screw-in type body

SPECIFICATIONS

pipe size	orifice size 1 → 2	orifice size 2 → 3	flow coefficient Kv		operating pressure differential (bar) min.	max. (PS) air and gases (✳) ~	max. (PS) air and gases (✳) =	power coil (W) ~	power coil (W) =	catalogue no. threaded body	catalogue no. screw-in type body
	(mm)		(m³/h)	(l/min)						xx : see "HOW TO ORDER"	
NC - Normally closed											
M5	0,75	1	0,016	0,26	-0,9	-	7	-	1,5	**HSM3Lxx00V**	**HSM3Mxx00V**
	1	1	0,025	0,42	-0,9	-	7	-	1,5	**HSM3Lxx10V**	**HSM3Mxx10V**
	2	1	0,058	0,97	-0,9	-	3,5	-	1,5	**HSM3Lxx50V**	**HSM3Mxx50V**

HOW TO ORDER

10-DIGIT PRODUCT CODE

HSM3L **x** **x** **00** **V**

catalogue no.

voltages
6 = 12 VDC
7 = 24 VDC

electrical connection
F = Spade plug
H = cable ends

seal materials
V = FPM

catalogue no.

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OPTIONS

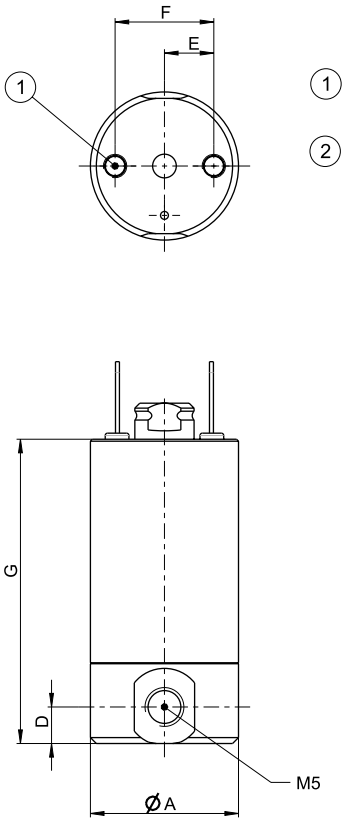
- Seals made from EPDM (ethylene-propylene) (contact us)
- Oxygen service
- Other pipe connections (10-32 UNF-3B)

INSTALLATION

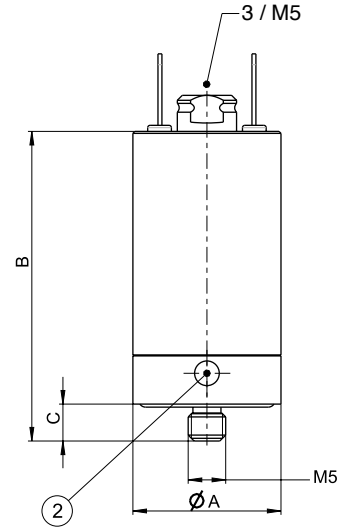
- The solenoid valves can be mounted in any position without affecting operation
- Threaded solenoid valves have 2 mounting holes in body
- Screw-in type valves and o-ring seals for multiple manifolds

DIMENSIONS (mm), WEIGHT (kg)

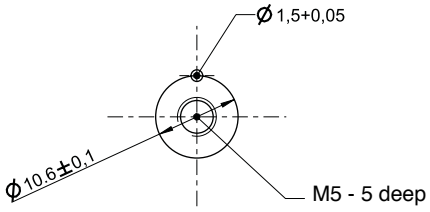
HSM3Lxx00V / HSM3Lxx10V / HSM3Lxx50V
HSM3Lxx00V / HSM3Lxx10V / HSM3Lxx50V



HSM3Mxx00V / HSM3Mxx10V / HSM3Mxx50V
HSM3Mxx00V / HSM3Mxx10V / HSM3Mxx50V



screw-in mounting pattern



(1) 2 mounting holes Ø M3x0,5
(2) Mounting with hook spanner wrench DIN 1810B

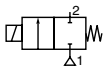
Ø10,6±0,1
max. **Ø**1,5+0,05

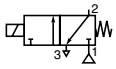
connection type	catalogue no.	A	B	C	D	E	F	G	weight
threaded body	HSM3Lxx00V/HSM3Lxx10V/HSM3Lxx50V HSM3Lxx00V/HSM3Lxx10V/HSM3Lxx50V	19,05	-	-	4,7	6,35	12,7	39,11	0,059
screw-in type body	HSM3Mxx00V/HSM3Mxx10V/HSM3Mxx50V HSM3Mxx00V/HSM3Mxx10V/HSM3Mxx50V	19,05	39,62	4,8	-	-	-	-	0,053

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SOLENOID VALVE

flat-spring technology,
precise response time, quick switching,
Ø 15 mm, pad-mount body

2/2 NC 

3/2 NC 

2/2
3/2
Series
065



FEATURES

- *Miniature solenoid valve for respirators, medical analyzers, gas analyzers and control units, as well as for use as a pilot valve.*
- *RoHS compliant.*
- *New flat-spring technology enables*
  - short response times and their precise adjustment
  - very low switching noise
  - exceptional long service life
- *Suitable for oxygen service*
- *Easy to integrate thanks to the valves' small size.*
- *Pad-mount for installation on multiple manifolds.*
- *Vacuum application up to 0,1 bar abs.*
- *All 3 connections of the 3/2 way valve are contactable via the flange.*

GENERAL

Differential pressure	See "SPECIFICATIONS" [1 bar =100 kPa]
Maximum viscosity	20 cSt (mm²/s)
Response time	< 10 ms
Internal volume	≤ 150 µl (couplings not included)

fluids (✳)	temperature range (TS)	seal materials (✳)
air, inert gases, oxygen (filtered 50 µm)	0°C to + 60°C	FPM (fluoroelastomer)

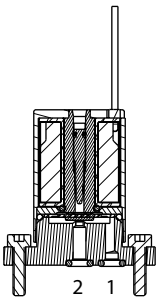
MATERIALS IN CONTACT WITH FLUID

(✳) Ensure that the compatibility of the fluids in contact with the materials is verified.

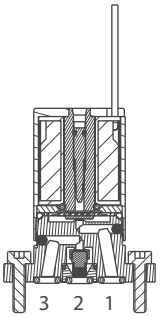
Body	Stainless steel
Plugnut	Stainless steel
Flat-spring	Stainless steel
Seat and housing base	PPS
Seals	FPM (other materials: contact us)

ELECTRICAL CHARACTERISTICS

Coil insulation class	F
Connection	Cable leads AWG 26/7, 80mm length
Electrical safety	IEC 335
Electrical enclosure protection	IP40 (EN 60529)
Standard voltages	DC (=) : 12V, 24V
Power	2W at 20°C
Duty cycle	100% at ambient temperature 0°C to 60°C



2/2 NC function



3/2 NC function

SPECIFICATIONS

function	orifice size	flow coefficient kv		operating pressure differential (bar)		power coil	catalogue number
	(mm)	(m³/h)	(l/min)	min.	max.	(W)	
2/2 NC	0,6	0,010	0,159	0	9	2	**R065A131L0V00xx**
	1,2	0,035	0,580	0	3	2	**R065A134L0V00xx**
3/2 NC	0,6	0,010	0,159	0	5	2	**R065A141L0V00xx**
	1,2	0,024	0,404	0	1,3	2	**R065A144L0V00xx**

ORDERING

R065A131L0V00 **F1**

According to table „SPECIFICATIONS"

Voltage
F1 = 24 VDC
F3 = 12 VDC

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OPTIONS (on request)

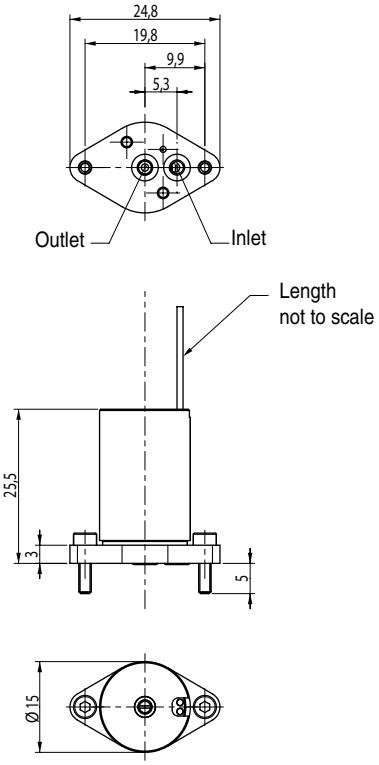
- Other seal materials
- Specitic response times
- Optimised operating noise level

INSTALLATION

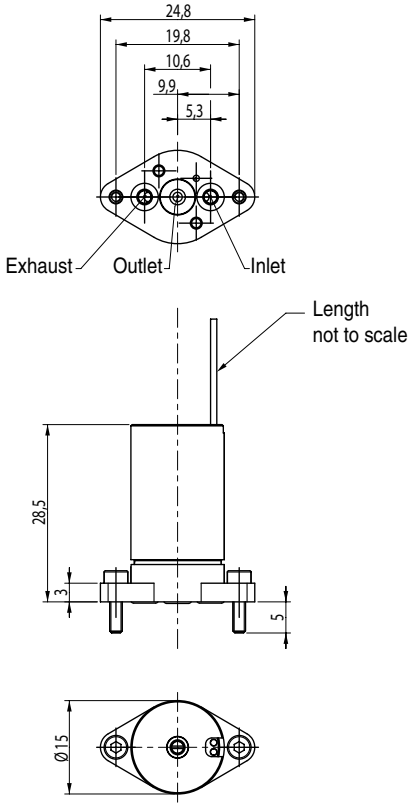
- The solenoid valves can be mounted in any position without affecting operation.
- Seals and mounting screws (M2, hexagon socket, DIN912) for flange connection are standard supplied.

DIMENSIONS (mm), WEIGHT (kg)

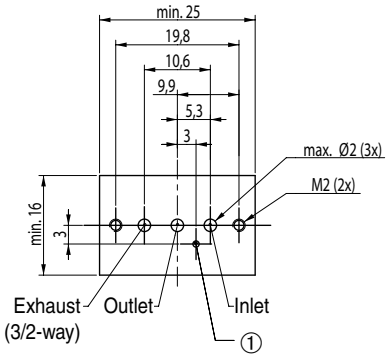
2/2 way
weight*: 0,020kg



3/2 way
weight*: 0,021kg



Subbase mounting surface



① Optional orientation pin Ø=1,0mm (m6), DIN EN ISO 2338 (not supplied). Must project not more than 3mm.

* Incl. mounting screws

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