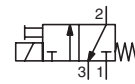




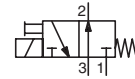
SOLENOID VALVES

ISO 15218 (CNOMO, size 30) interface
direct operated, pad mounting body
subbases for instant fittings or 1/8 thread

NC



NO



3/2
Series
189

FEATURES

- CNOMO pad-mount version for valve piloting applications
- Compact size and low weight for easy installation on single or joinable subbases
- AC/DC interchangeability of the solenoid operator without any need for disassembly of the valve
- Version with M12 connection with visual indication and peak voltage suppression conforming to "UL" standards
- Flexible installation on joinable subbases
- Manual operator as standard
- The solenoid valves satisfy all relevant EU directives

GENERAL

Differential pressure See "SPECIFICATIONS" [1 bar = 100 kPa]
Response time 5 - 10 ms

fluids (*)	temperature range (TS)	seal materials (*)
air, inert gas	-10°C to +60°C	NBR (nitrile)

MATERIALS IN CONTACT WITH FLUID

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

Body	PA, glass-filled
Core tube	Stainless steel
Core and plugnut	Stainless steel
Internal parts, springs	Stainless steel
Seals	NBR
Shading coil	Copper

CONSTRUCTION

Mounting pad ISO 15218 (CNOMO 06-05-80 / NF E 49066, size 30)

ELECTRICAL CHARACTERISTICS

Coil insulation class F
Connector Spade plug (cable Ø 6-8 mm) or M12
Connector specification DIN 43650, 11 mm, industry standard B or CNOMO E03.62.520.N (M12)

Electrical safety

Electrical enclosure protection Moulded IP65 (EN 60529)
Standard voltages DC (=): 24V - 48V (M12: 24 V + LED and protection)
AC (~): 24V - 48V - 115V - 230V / 50 Hz

-	power ratings				operator ambient temperature range (TS) (C°)	replacement coil		type ⁽¹⁾
	inrush ~	holding ~	hot/cold =	~		=		
	(VA)	(VA)	(W)				(W)	
-	6	3,5	2,5	2,5 / 3	-10 to +60	230 V/50 Hz	24 V DC	01
						43004422	43004166	06
						-	43005523	

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

SPECIFICATIONS

pipe size	orifice size		flow coefficient Kv				operating pressure differential (bar)				power coil (W)		catalogue number	
	1 → 2	2 → 3	1 → 2		2 → 3		min.	max. (PS)		~	=	with maintained manual operator		
	(mm)	(mm)	(m³/h)	(l/min)	(m³/h)	(l/min)		air (*)	DIN connector			M12 connection		
NC - Normally closed														
pad mounting ⁽²⁾	1,2	1,5	0,042	0,7	0,048	0,8	0	10	10	2,5	3	18900001	-	
										-	3	-	18900073	
NO - Normally open														
pad mounting ⁽²⁾	1,2	1,5	0,042	0,7	0,036	0,6	0	6 ⁽⁵⁾	6 ⁽⁵⁾	2,5	3	18900010	-	
										-	3	-	18900075	

SUBBASES

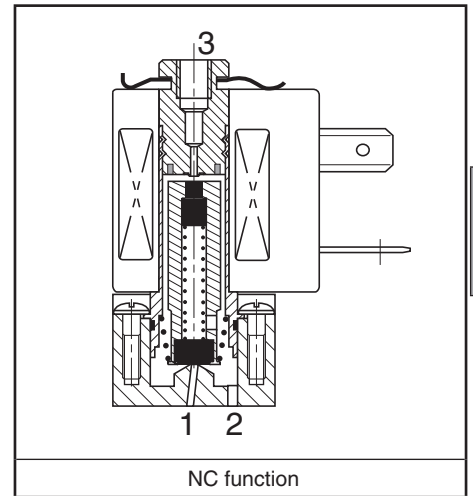
pipe size	designation	composition	catalogue number
6/6 polyamide subbases			
instant fittings ⁽³⁾	single subbase (instant fittings OD 4 mm)		35300069
	joinable subbase (instant fittings OD 4 mm)		35300070
	set of 2 joinable end subbases, right-hand pressure intake, endpieces with instant fittings OD 6 mm		35300071
	set of 2 joinable end subbases, right-hand and/or left-hand pressure intake, endpieces with instant fittings OD 6 mm		35300072 ⁽⁴⁾
Zamak subbases			
G 1/8 ⁽³⁾ tapped	laterally-connected single subbase		35300047
	laterally-connected joinable subbase		35300048

⁽²⁾ Port 3: M5.

⁽³⁾ These subbases can be mounted on omega rail to EN 50022 using 2 clips (clips sold in packs of 10, catalogue number: 33400036).

⁽⁴⁾ The equipment can be used for two different pressure intakes, supplied with one blanking plug to cover unused port.

⁽⁵⁾ 10 bar on request (with 5W/6,9W coil)



E

OPTIONS

- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU (see "Explosionproof solenoids" section)
- Straight M12 connector (IP67 protection with connector correctly installed): with 5 m cable: catalogue number **88130212**
- Right-angle M12 connector (IP67 protection with connector correctly installed), with 5 m cable: catalogue number **88130213**
- M5 flow control regulator to fit port 3, catalogue number: **34600380**
- Plug with visual indication and peak voltage suppression or with cable length of 2 m (see Solenoids, Coils & Accessories section)

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Mounting on single or joinable subbases
- ATEX 2014/34/EU versions (options "SG" and "PV") can be installed on single (all versions) or joinable zinc diecast subbases
- Pipe connections 1/8 have standard thread according to ISO 228/1
- Installation/maintenance instructions are included with each valve

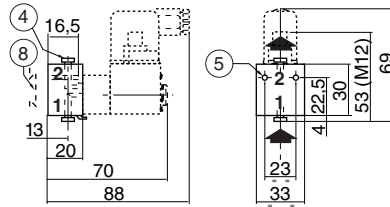
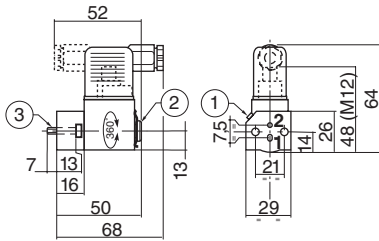
DIMENSIONS (mm), WEIGHT (kg)

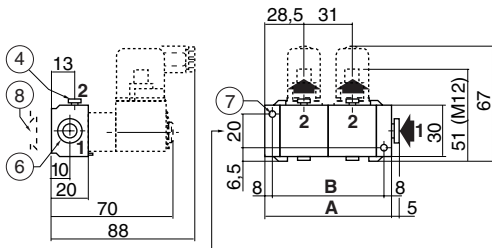
TYPE 01-06
 Spade plug /M12
 IEC 335 / DIN 43650 /
 E03.62.520.N
 IP65

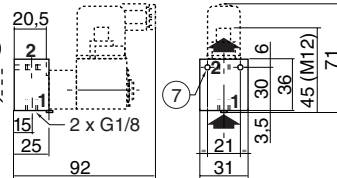
18900001/18900010/18900073/18900075

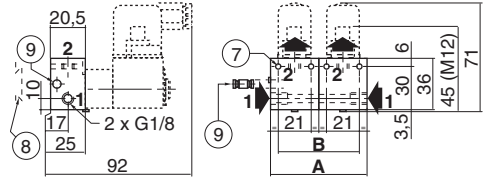

TYPE 02
 Single instant fitting
 subbase
 Polyamide

35300069


TYPE 03

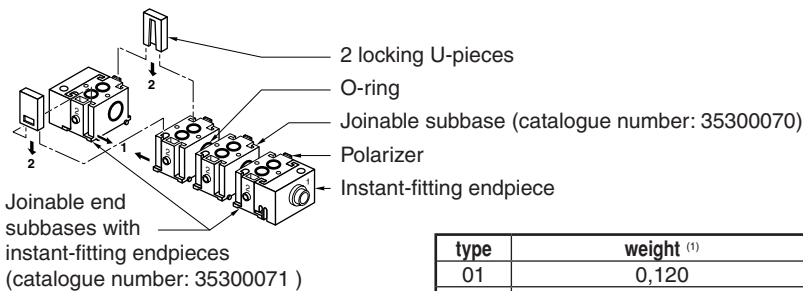
 Joinable instant fitting subbase
 Polyamide
35300070
35300071 (set of 2)

TYPE 04

 Single subbase
 Zamak
35300047

TYPE 05

 Joinable subbase
 Zamak
35300048


Right-hand pressure intake option or 2 different pressure intakes by procuring the set of two end subbases with endpieces (catalogue number: 35300072).

When mounted on DIN rail, it is recommended to use a securing clip on the end subbases as well as on the central subbase.



type	weight ⁽¹⁾
01	0,120
02	0,135
04	0,185
06	0,105

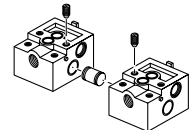
⁽¹⁾ including coil and connector.
(except M12 connection type 06)

ORDERING EXAMPLES:

18900001	230V / 50 Hz
18900073	24V / DC
basic number	voltage options

- 1 Manual operator location
- 2 Port 3: M5, depth 5,5 mm
- 3 Mounting: two CM4x20 screws
- 4 Instant-fitting connection for OD 4 mm tube
- 5 Mounting: two dia. 3,5 mm securing holes, dia. 6,5 mm counter-bores, depth 3,5 mm
- 6 Instant-fitting connection for OD 6 mm tube
- 7 Mounting: two dia. 4,5 mm securing holes
- 8 Adaptable clips
- 9 Subbase mounting hole, adapter

Joinable subbases assembled with adapter locked by sunk set screws.
For DIN rail mounting: see type 03.



number of subbases	type 03		type 05	
	A	B	A	B
2	88	72	62	52
3	119	103	93	83
4	150	134	124	114
5	181	165	155	145
6	212	196	186	176
7	243	227	217	207
8	274	258	248	238

type	weight ⁽²⁾						
	number of subbases						
	2	3	4	5	6	7	8
03+01	0,295	0,430	0,565	0,700	0,835	0,970	1,105
03+06	0,265	0,385	0,505	0,625	0,745	0,865	0,985
05+01	0,400	0,600	0,800	1,000	1,200	1,400	1,600
05+06	0,370	0,555	0,740	0,925	1,110	1,295	1,480

⁽²⁾ Including seals, set screws and joining unit.



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