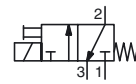




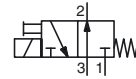
# SOLENOID VALVES

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 EC 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

<b>Body</b>	PA, glass-filled
<b>Core tube</b>	Stainless steel
<b>Core and plugnut</b>	Stainless steel
<b>Internal parts, springs</b>	Stainless steel
<b>Seals</b>	NBR
<b>Shading coil</b>	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 <sup>(1)</sup>
	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	06

<sup>(1)</sup> 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		
<b>NC - Normally closed</b>														
pad mounting <sup>(2)</sup>	1,2	1,5	0,042	0,07	0,048	0,8	0	10	10	2,5	3	18900001	-	
										-	3	-	18900073	
<b>NO - Normally open</b>														
pad mounting <sup>(2)</sup>	1,2	1,5	0,042	0,07	0,036	0,6	0	6 <sup>(5)</sup>	6 <sup>(5)</sup>	2,5	3	18900010	-	
										-	3	-	18900075	

## EMBASSES

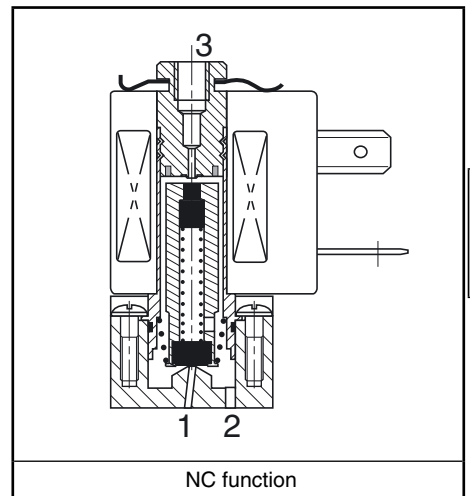
pipe size	designation	composition	catalogue number
<b>6/6 polyamide subbases</b>			
instant fittings <sup>(3)</sup>	single subbase (instant fittings OD 4 mm)		35300069
	joinable subbase (instant fittings OD 4 mm)		35300070
	set of 2 joinable end subbases, right-hand pressure intake, endpieces with instant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

<sup>(2)</sup> Port 3: M5.

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

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

<sup>(5)</sup> 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 94/9/EC (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

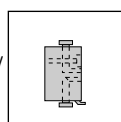
- The solenoid valves can be mounted in any position without affecting operation
- Mounting on single or joinable subbases
- ATEX 94/9/EC versions (options "SCDU" and "PV") can be installed on single (all versions) or joinable zinc diecast subbases
- Pipe connections 1/8 have standard thread according to ISO 228/1
- Installation/maintenance instructions are included with each valve

### DIMENSIONS (mm), WEIGHT (kg)



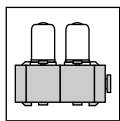
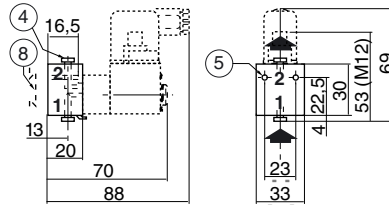
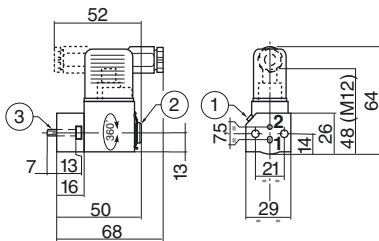
**TYPE 01-06**  
Spade plug /M12  
IEC 335 / DIN 43650/  
E03.62.520.N  
IP65

18900001/18900010/18900073/18900075

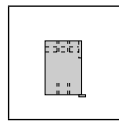


**TYPE 02**  
Single instant fitting  
subbase  
Polyamide

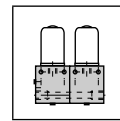
35300069



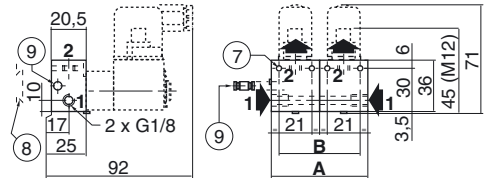
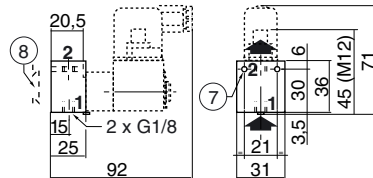
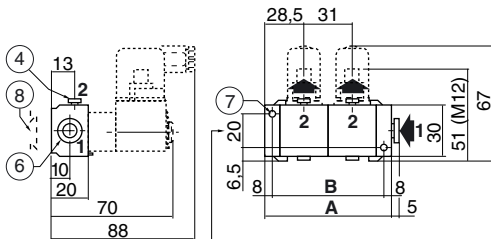
**TYPE 03**  
Joinable instant fitting subbase  
Polyamide  
**35300070**  
**35300071** (set of 2)



**TYPE 04**  
Single subbase  
Zamak  
**35300047**

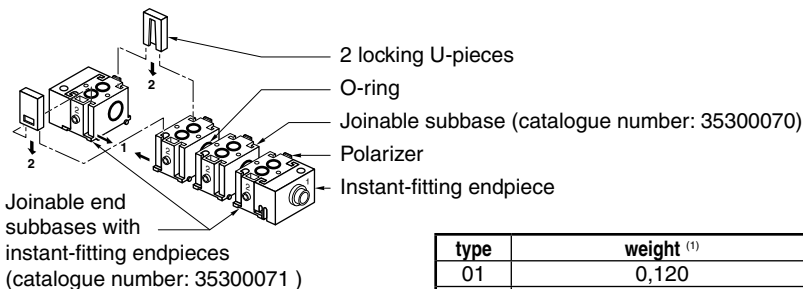


**TYPE 05**  
Joinable subbase  
Zamak  
**35300048**



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.

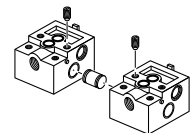


type	weight <sup>(1)</sup>
01	0,120
02	0,135
04	0,185
06	0,105

<sup>(1)</sup> including coil and connector.  
(except M12 connection type 06)

- 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.



### ORDERING EXAMPLES:

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

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 <sup>(2)</sup>						
	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

<sup>(2)</sup> Including seals, set screws and joining unit.