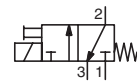




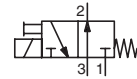
SOLENOID VALVES

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]
Maximum allowable pressure 16 bar
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 IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529)
Standard voltages DC (=): 24V - 48V (M12: 24V + 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)		230 V/50 Hz	24 V DC	
-	6	3,5	2,5	2,5 / 3	-10 to + 60	43004422	43004166	01
-	-	-	-	-	-	-	43005523	06

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

SPECIFICATIONS

pipe size	orifice size		flow at 6 bar l/min (ANR)		flow coefficient Kv		operating pressure differential (bar)			power coil (W)		catalogue number		
	1 → 2	2 → 3	1 → 2	2 → 3	1 → 2	2 → 3	min.	max. (PS)		~	=	with maintained manual operator		
	(mm)	(mm)	(l/min)	(l/min)	(l/min)	(l/min)		air (*)	~			=	with connector	without connector
NC - Normally closed														
pad mounting ⁽²⁾	1,2	1,5	50	56	0,7	0,8	0	10	10	2,5	3	18900001	18900002	-
										-	3	-	-	18900073
NO - Normally open														
pad mounting ⁽²⁾	1,2	1,5	40	50	0,7	0,6	0	6 ⁽⁵⁾	6 ⁽⁵⁾	2,5	3	18900010	18900011	-
										-	3	-	-	18900075

EMBASES

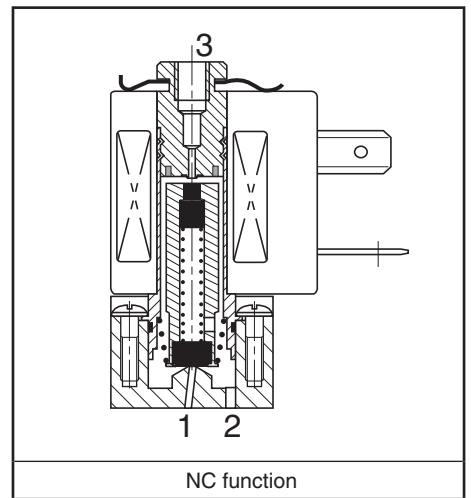
pipe size	designation	composition	catalogue number
6/6 polyamide subbases			
instant fittings ⁽³⁾	single subbase (instant fittings OD 4 mm)		35300069
	joinable subbase (instant fittings OD 4 mm)		35300070
	set of 2 joinable end subbases, right-hand pressure intake, endpieces with instant fittings OD 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)



OPTIONS

- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU (see "Explosionproof solenoids" section): Ex mb (PV), PV18901001 or PV18901010 / Potentially explosive atmospheres (SG), zone 22
- Straight M12 connector (IP67 protection with connector correctly installed): with 5 m cable: catalogue number **88130212**
- Catalogue number (without connector) + connector catalogue number (with integrated LED indicator and electrical protection): 24 V (~/=), **88122405** - 48 V (~/=), **88122406** - 115 V (~), **88122407** - 230 V (~), **88122408**
- Compliance with "UL", "CSA" standards are available (UL: catalogue number **612100**)
- 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

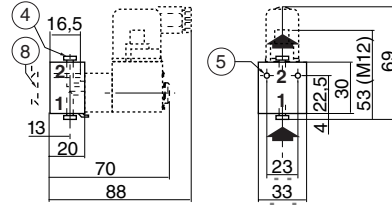
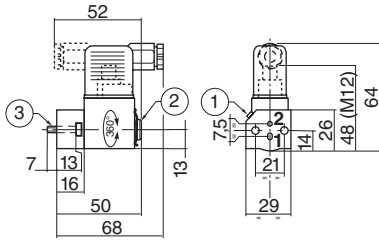
DIMENSIONS (mm), WEIGHT (kg)



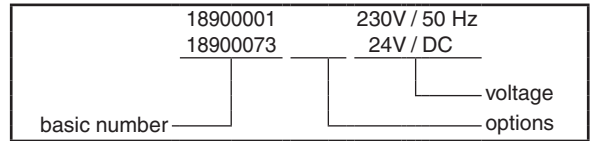
TYPE 01-06
Spade plug /M12
IEC 335 /
DIN 43650
E03.62.520.N, IP65
18900001/18900010/18900073/18900075



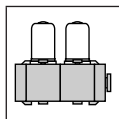
TYPE 02
Single instant fitting
subbase
Polyamide
35300069



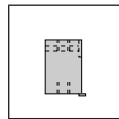
ORDERING EXAMPLES:



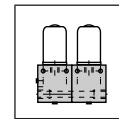
- 1 Manual operator location
- 2 Port 3: M5, depth 5,5 mm
- 3 Mounting: two CM4x20 screws
- 4 Instant-fitting connection for OD 4 mm tube
- 5 Mounting: two dia. 3,5 mm securing holes, dia. 6,5 mm counter-bores, depth 3,5 mm
- 6 Instant-fitting connection for OD 6 mm tube
- 7 Mounting: two dia. 4,5 mm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



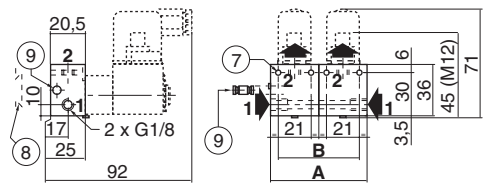
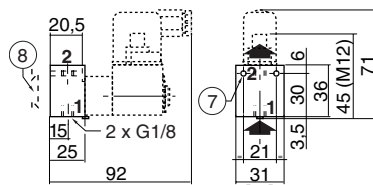
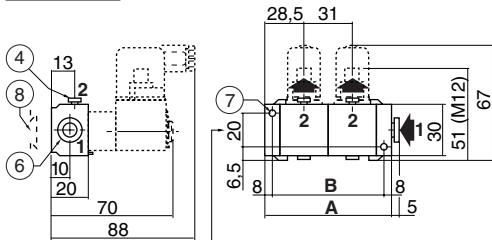
TYPE 03
Joinable instant fitting subbase
Polyamide
35300070
35300071 (set of 2)



TYPE 04
Single subbase
Zamak
35300047

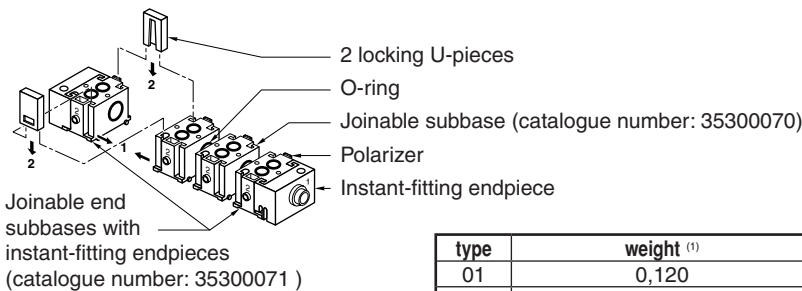


TYPE 05
Joinable subbase
Zamak
35300048



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

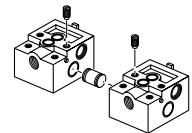
When mounted on DIN rail, it is recommended to use a securing clip on the end subbases as well as on the central subbase.



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)

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.