AVENTICS™ Solenoid Valves

3 way, NC/NO, Direct Operated, ISO 15218 (CNOMO, size 30) interface, Pad Mounting Body, Subbases for instant fittings or 1/8 thread

3/2 Series 189

NO

Features & Benefits

- 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
- 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

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

Construction

ISO 15218 (CNOMO 06-05-80 / Mounting pad

NF E 49066, size 30)

Electrical characteristics

Coil insulation class

Spade plug (cable Ø 6-8 mm) or M12 Connector **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)

DC (=): 24V - 48V (M12: 24V + LED and protection) Standard voltages

(Other voltages and 60 Hz on request) AC (~): 24V - 48V - 115V - 230V / 50 Hz

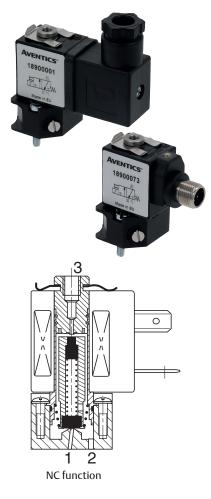
	powe	er rating	JS .	operator	replacen		
inrush	hole	ding	hot/cold	ambient temperature	Теріасен	ilelit coli	type (1)
~	~ ~		=	range (TS)	~	=	туре 🗤
(VA)	(VA)	(W)	(W)	(C°)	230 V/50 Hz	24 V DC	
6	3.5	2.5	2.5 / 3	-10 to + 60	43004422	43004166	01
0	ر.د	2.5	2.5/5	-1010+00	-	43005523	06

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

Specifications

- p																		
	_	fice ze	flow at 6 bar		flow coefficient			rting pressure erential (bar)		power coil -			Catalog numbe	r				
pipe size		LC	I/min	(ANR)	K	Kv		Kv		Kv		max	nax. (PS) power coll (W)			with mair	ntained manua	operator
SIZC	1→2	2→3	1→2	2→3	1→2	2→3	min.	air	(*)		ν,	with connector	without connector	M12 connection				
	(mm)	(mm)			(l/min)	(l/min)	1	~	=	~	=	~/=	~/=	=				
NC - Norm	nally clo	sed									•							
pad	1.2	1.5	50	56	0.7	0.8	0	10	10	2.5	3	18900001	18900002	-				
mounting (2)			50	50	0.7	0.0	U	10	10	-	3	-	-	18900073				
NO - Norn	NO - Normally open																	
pad	1.2	1.5	40	50	0.7	0.6	0	6 (3)	6 (3)	2.5	3	18900010	18900011	-				
mounting (2)	1.2	1.5	40	50	0.7	0.0	0	0 (3)	0 (3)	-	3	-	-	18900075				

^{(3) 10} bar on request (with 5W/6.9W coil)



NC

(2) Port 3: M5.

AVENTICS™ Solenoid Valves

Subbases

pipe size	designation	composition	Catalog number			
6/6 polyamide subbases						
	single subbase (instant fittings OD 4 mm)	©	35300069			
	joinable subbase (instant fittings OD 4 mm)		35300070			
instant fittings (1)	set of 2 joinable end subbases, right-hand pressure intake, endpieces with instant fittings OD 6 mm	Ø 6mm	35300071			
	set of 2 joinable end subbases, right-hand and/or left-hand pressure intake, endpieces with instant fittings OD 6 mm	Ø 6mm 0 6mm 0 6mm	35300072 ⁽²⁾			
Zamak subbase	25					
G 1/8 (1)	laterally-connected single subbase	0	35300047			
tapped	laterally-connected joinable subbase	ΞΦΞ	35300048			

⁽¹⁾ These subbases can be mounted on omega rail to EN 50022 using 2 clips (clips sold in packs of 10, catalogue number: 33400036).

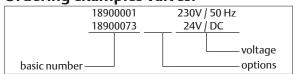
Options

- Explosion proof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU: 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 (AC/DC), 88122405 48 V (AC/DC), 88122406 115 V (AC), 88122407 230 V (AC), 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

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 zink diecast subbases
- Pipe connections 1/8 have standard thread according to ISO 228/1
- Installation/maintenance instructions are included with each valve

Ordering examples valves:



⁽²⁾ The equipment can be used for two different pressure intakes, supplied with one blanking plug to cover unused port.

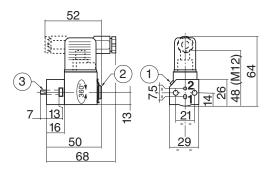
Dimensions (mm), Weight (kg)





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

18900001/18900010/18900073/18900075



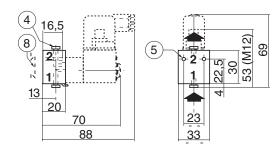
type	weight (1)
01	0.120
02	0.135
06	0.105

(except M12 connection type 06)

TYPE 02

Single instant fitting subbase Polyamide

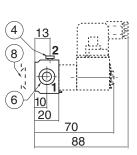
35300069

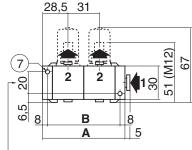


- 1 Manual operator location
- 2 Port 3: M5, depth 5.5 mm
- (3) Mounting: two CM4x20 screws
- (4) Instant-fitting connection for OD 4 mm tube
- (5) Mounting: two dia. 3.5 mm securing holes, dia. 6.5 mm counter-bores, depth 3.5 mm
- (6) Instant-fitting connection for OD 6 mm tube
- (7) Mounting: two dia. 4.5 mm securing holes
- 8 Adaptable clips



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





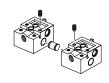
number of	typ	type 03			
subbases	Α	В			
2	88	72			
3	119	103			
4	150	134			
5	181	165			
6	212	196			
7	243	227			
8	274	258			

			V	veight (2)		
type			numbe	er of su	bbases		
	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

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

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.

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



2
Joinable end
subbases with
instant-fitting endpieces
(catalogue number: 35300071)

2 locking U-pieces

O-ring

Joinable subbase (catalogue number: 35300070)

Polarizer

Instant-fitting endpiece



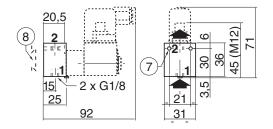
AVENTICS™ Solenoid Valves

Dimensions (mm), Weight (kg)





TYPE 04 Single subbase Zamak 35300047



type	weight (1)
04	0.185

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

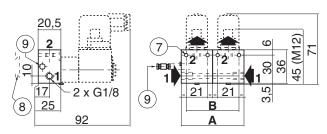
- 7 Mounting: two dia. 4.5 mm securing holes
- (8) Adaptable clips
- 9 Subbase mounting hole, adapter

	weight (2)						
type		number of subbases					
	2	3	4	5	6	7	8
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.



TYPE 05 Joinable subbase Zamak **35300048**



number of	type 05			
subbases	Α	В		
2	62	52		
3	93	83		
4	124	114		
5	155	145		
6	186	176		
7	217	207		
8	248	238		