

SOLENOID VALVES

manual reset, direct operated, poppet type, flameproof enclosure Ex d IIC T6-T5 Gb, Ex t IIIC T85°C-T100°C Db IP65, in-line, 1/2

126

FEATURES

- Solenoid valves with explosionproof operator MB type for use in potentially explosive atmospheres according to ATEX Directive 94/9/EC
- EC type examination certificate (LCIE 03 ATEX 6059 X) and IECEx certificate (IECEx LCI 09.0001X) are in compliance with the International and European Standards EN-IEC 60079-0, EN-IEC 60079-1 and EN-IEC 61241-1
- · Easy electrical connection with screw terminals
- Solenoid valve requiring manual resetting with coil energised after returning from the tripped state on loss of power
- Wide range of applications, particularly at low temperatures
- The solenoid valves have TÜV certified IEC 61508 Functional Safety data and can be used up to SIL 4

GENERAL

Differential pressure 0 to 10 bar [1 bar =100 kPa]

Response time 20 ms

fluids (*)	temperature range (TS)	seal materials (*)	
air, inert gas	- 40°C to + 60°C	VMQ (silicone)	

MATERIALS IN CONTACT WITH FLUID

(*) Ensure that the compatibility of the fluids in contact with the materials is verified **Brass body** Stainless steel body

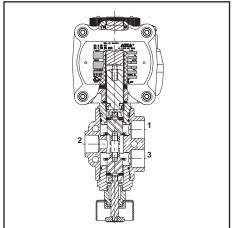
Brass AISI 316L SS **Body** Internal parts Stainless steel, brass Stainless steel **Springs** Stainless steel Stainless steel **Seals VMQ VMQ**

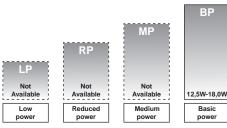
OTHER MATERIALS

Electrical enclosure Aluminium **Cover screws** Steel

Stainless steel Core tube Core and plugnut Stainless steel Nameplate Aluminium







POWER LEVELS - cold electrical holding values (watt)

SPECIFICATIONS

pipe	orifice size		flow coefficient			rating pressure fferential (bar)		power		basic catalogue					
size				K	(V			max. (PS)		max. (PS) level		· ·		number	
	1 → 2	2→3	1_	1→2		2 → 3		air (*)					1		
	·						ļ		()			brass	stainless steel		
NPT	(mm)	(mm)	(m³/h)	(l/min)	(m³/h)	(l/min)		~	=	~	=	Diass	Starriess steer		
U - Universa	U - Universal, brass or stainless steel body, VMQ seals														
1/2	10	10	2.1	35	2.1	35	0	10	10	18	-	12600015	12600021		
1/2	10	10	۷,۱	35	2,1	33	U	0 10		-	12,5	12600016	12600022		
U - Universa	U - Universal, brass or stainless steel body, VMQ seals (Certified IEC 61508 Functional Safety data) (2)														
1/2	10	10	2.1	35	2.1	35	0	10	10	18	-	12660034	12660033		
1/2	10	10	۷,۱	33	۷,۱	33	0	10	10	10	10	-	12,5	12660035	12660032

(2) Including NPT 1/2 stainless steel exhaust protector.

All leaflets are available on: www.asconumatics.eu

青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F 服务热线:4006-918-365 网址:http://www.ivalve.cc

传真:(86-532)585-10-365 Email: sales@bechinas.com



Coil insulation class

ELECTRICAL CHARACTERISTICS

Н

Coil connection Screw terminals

Electrical safety IEC 335

Electrical enclosure protection Standard voltages

Moulded IP65 (EN 60529) DC (=): 24V - 48V

(Other voltages and 60 Hz on request) AC (~

AC (~): 24V - 48V - 115V - 230V / 50 Hz

	power ratings		operator		renlaceme		
operator	hot/cold (2)	hot/cold	ambient temperature	safety code	replacement coil /kit		type (1)
type	~	=	range (TS)	Salety Code	~	=	type
	(W)	(W)	(C°)		230 V/50 Hz	24 V DC	
MB	13/18	10,4/12,5	-40 to +60	Ex d IIC Gb Ex t IIIC Db IP65	43004053	43002092	01

⁽¹⁾ Refer to the dimensional drawings on the following page. (2) AC: Rectified coil construction

TEMPERATURE CLASSIFICATION

operator AC (~)

operator /to ()							
	max. ambient temp. °C (3) surface temperature						
Pn							
	T6	T5					
(W)	85°C	100°C					
18	50	60 (SIL = 65)					

(3) Contact us for temperatures above +60°C.

operator DC (=)

	max. ambient temp. °C (3)					
Pn	surface temperature					
	T6	T5				
(W)	85°C	100°C				
12,5	50	60 (SIL = 65)				

SAFETY CODE

Ex d IIC T6-T5 Gb

Ex t IIIC T85°C-T100°C Db IP65

OPTIONS

- IECEx-ATEX cable gland certified to ATEX, 3/4 NPT, pre-installed on solenoid valve, supplied with cable clamp (see "Explosionproof Solenoids" section)
 - for non-armoured cable of 8,5 to 16 mm dia., catalogue number 660510
 - for armoured cable of ID 8,5 to 16 mm / OD 12 to 21 mm, catalogue number 660514
- · Other cable diameters
- · Exhaust protector:
 - bronze for brass body, catalogue number 560595
 - stainless steel for stainless steel body, catalogue number 560594
- Oxygen service (min. -25°C; contact us for lower temperatures), catalogue number 970530
- Temperatures down to -50°C, catalogue number 610536
- Marine paint/anti-corrosive or dust environments (solenoid operator enclosure only)

INSTALLATION

- Always install solenoid valves with body vertical and solenoid upward
- Can be used for the following functions, depending on how the ports are connected:

L	2/2 NC	2/2 NO	3/2 NC	3/2 NO	mixing	selector

- · Solenoid valves have 3 mounting holes in body
- IEC 61508 Functional Safety, allowable temperature range: -40°C to +65°C.
 Probability of failure on demand, contact us
- Threaded pipe connection is standard NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

80338GB-2011/R0

11-3BCAE

All leaflets are available on: www.asconumatics.eu

青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F 服务热线:4006-918-365 网址:http://www.ivalve.cc 传真:(86-532)585-10-365 Email:sales@bechinas.com

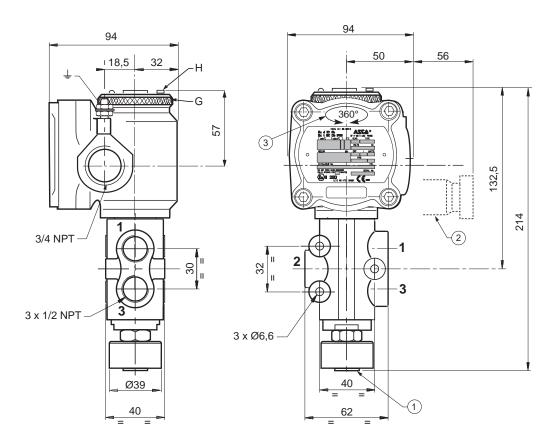


DIMENSIONS (mm), WEIGHT (kg) TYPE 01:





MB Solenoid Aluminium EN-IEC: 60079-0, 60079-1 and 61241-1

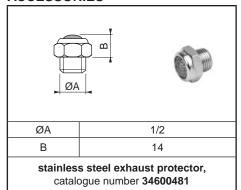


type	power level	power level body	
01	basis power	brass	2,5
01	basic power	stainless steel	2,1

⁽¹⁾ including enclosure and coil.

- 1 Manual reset operator location.
- (2) Explosionproof cable gland with clamp according to IECEx-ATEX.
- (3) To change the orientation of the solenoid operator relative to the ports, the screw (H) and the nut on the cover (G) must be loosened.

ACCESSORIES



青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

传真:(86-532)585-10-365 服务热线:4006-918-365 网址:http://www.ivalve.cc Email: sales@bechinas.com



PIC-11-0025-GB -- Availability, design and specifications are subject to change without notice. All rights reserved. 80338GB-2011/R01

传真:(86-532)585-10-365 Email:sales@bechinas.com