

VALVES TO ATEX 2014/34/EU OPTIONS / ACCESSORIES



for potentially explosive atmospheres series 290 and 390

FEATURES

- 2/2 or 3/2 valves NC/NO designed for use in potentially explosive atmospheres in accordance with ATEX-Directive 2014/34/EU, category 2 or 3
- · Compliance with the Essential Health and Safety Requirements has been assured by compliance with European Standards
- · Recommended for applications in the chemical, oil, gas and paint coating industries etc.

GENERAL / CONSTRUCTION / SPECIFICATIONS

Verify the compatibility of the		see pa	age		classification (zones)													
category/zone with the selected		Pressure Opera					category 2	category 3										
valve.		(2/2)					category 2	Category 3										
operator	DN	V	▼	▼	dusts	gas		3	safety code		gas			safety code				
diameter	DIN	15, 19, 23, 25, 27, 31	35	1		IIA	IIB	IIC	Salety Code		IIA	IIAIIBII		,				
Ø 32 mm	10 → 20				21	1	1	-		22 22	2	2	2	€ II 3 GD c T4 T135°C				
Ø 50 mm	15 → 25				21	1	1	-	(E) 11 2 GD C 11B 14 1 135°C		2	2	2	© 113 GD C 14 1135 C				
Ø 63 mm	15 → 50		1	***	21	1	1	-		22	2	2	2					
Ø 90 mm Ø 125 mm	25 → 65 32 → 65	= =	=		21	-	-	-	⑤ II 2 D c T135°C	22	2	2	2					

ORDERING	suffix to be added to the valve's catalogue number (1)							
	category 2	category 3						
Verify the compatibility of the category/zone with the selected valve.	GD2	GD3						

Example (see page 15):

Valve E290, DN 35, operator dia. 63 mm designed for use in zones 1 and 21 (category 2), catalogue number: E290B010GD2

CHOICE OF OPTIONS AND ACCESSORIES construction type						C	atal	ogu	e pa	nge			NC	NO	NC			_						
			see page	15	19	23	25	27		31	35	1 (3/2 section)	fluid entry under the disc	luid entry inder the disc	fluid entry above the disc	С	`	nm Ø	bility)	у	bronze	stainless steel		cast iron
01		Signaling box, intrinsically safe inductive contacts NAMUR	45		,,,,,			= :		= =	<u>:</u>		•	•	•		•	•	•	•	- %.	<i>%</i>		····
07	1 8	Adapter plate (stainless steel) for NAMUR pad-mount pilot	44					=	= =	= =	=		•	•	•		••••	•	•	•	<i>'//,</i>	<i>'//,</i>		·//,
80	COLOR STATE OF THE	Oxygen service (max. limits: 15 bar, +60°C)	44			=		=	= =	= =	=		•	•	•	•	•	•	•	•	<i>'//,</i>	<i>'//,</i>		
09		Vacuum applications up to 1.33 10 ⁻³ mbar	44			m		= :	= =	= =	=		•	•	•	•	•	•	•	•	<i>'//,</i>	<i>'//,</i>		
10		NET-INOX treatment	44	<u></u>		=			=	=		••••	•	•	•	•	•	•	•	•		<i>'//,</i>		
11	57" EG 1935/2004	Conformity with Regulation (EC) 1935-2004	44	ļ		=	(DIN)	=	= =	= =			•	•	•	•	•	•	•	•		<i>'//.</i>		
12	2000	All stainless steel AISI 316L version (Recommended for aggressive environments) For valve catalogue numbers = contact us								-														

- Valves with female threaded ports.
- Valves with butt welding connection
- Valves with CLAMP connection

- ₩ Valves with male threaded ports
- Walves with male threaded ports DIN 11851

网址:http://www.asco.store

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Email: sales@bechinas.com





CONSTRUCTION 07

Adapter plate for NAMUR pad-mount pilot

- Adaptable on diameter Ø 63, 90 and 125 mm operators
 - Stainless steel AISI 316L
- Solenoid pilot valves, series 551, 3/2 NC:
 - aluminium body, catalogue number SCG551A001 (www.asco.com)
 - St. steel body, AISI316L, catalogue number SCG551A409 (www.asco.com)

TO ORDER: (for compatibility: see page 43)

 Add suffix stainless steel AISI 316L stainless steel AISI 316L
 AP3 (dia. 63 mm operator)
 AP4 (dia. 90 and 125 mm operators)

ORDERING EXAMPLES:





CONSTRUCTION 09

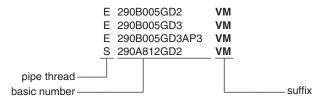
Vacuum applications up to 1,33 10⁻³ mbar

· FPM disc for use with medium vacuum

TO ORDER: (for compatibility: see page 43)

Add suffix VM

ORDERING EXAMPLES:





CONSTRUCTION 11

Conformity with Regulation (EC) 1935-2004

 The material of the wetted parts are listed in the chart of the Annex I of Regulation (EC) 1935/2004)

TO ORDER: (for compatibility: see page 43)

· Add suffix FB

ORDERING EXAMPLES:

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E 290A393GD2 FB

E 290A393GD3 FB

pipe thread ______ suffix
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CONSTRUCTION 08

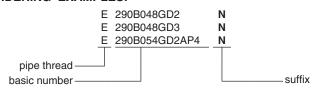
Oxygen service

- Special grease and cleaning
- Pressure limited to 15 bar/temperature limited to +60°C

TO ORDER: (for compatibility: see page 43)

Add suffix N

ORDERING EXAMPLES:



CONSTRUCTION 10

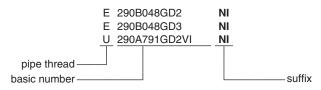
NET-INOX treatment

- Stainless steel valve body pickled in nitric hydrofluoric acid bath
- Treatment recommended for aggressive environments
- Standard on valves with CLAMP-type connections

TO ORDER: (for compatibility: see page 43)

Add suffix NI

ORDERING EXAMPLES:



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SIGNALING BOX

for series 290 and 390 valves with intrinsically safe inductive contacts NAMUR, ATEX 2014/34/EU

Series 885

FEATURES

- The signaling box fits all series 290 (2/2) and 390 (3/2) valves with 50 mm (NC) and 63 to 125 mm (NC/NO) operators to indicate whether the valve is open or closed
- The version with 2 intrinsically safe inductive NAMUR contacts is designed for use in potentially explosive atmospheres to ATEX-Directive 2014/34/EU
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with the International and European Standards EN 60079-0, EN 60079-11 and EN 60076-26
- The signaling box is supplied pre-installed and pre-adjusted on the valve. It is rotatable through 360°
- The signaling box complies with the EMC Directive 2014/30/EU

At both end-of-travel positions (open and closed) of the valve stem, cams on the signaling box plunger operate contacts which provide an electrical signal indicating that the end position is reached.

GENERAL

Ambient temperature range -10°C to +60°C

CONSTRUCTION

Body, cover **IP66** Degree of protection

Unit can be rotated through 360° around the centreline of the valve operator

(set screw)

ELECTRICAL CHARACTERISTICS

intrinsically safe inductive NAMUR contacts

The protection rating of the installed signaling box depends on the type of selected valve (see page 1).

Contact characteristics:

- Power supply: 8,2 V DC
- Switching frequency: 800 Hz

Protection rating of contacts:

II 1 G Ex ia IIB T6 Ga

• EC type examination certificate no.: **BVS 04 ATEX E153** PTB 01 ATEX 2191

· Recommended interfaces: galvanic barrier
Pepperl & Fuchs type KFA6-SR2-EX1.W

MTL instruments type MTL5011B ZENER barrier MTL instruments type MTL7742

safety parameters										
U _i	I,	P,	L,	Cı						
15 V	50 mA	120 mW	110 μΗ	80 nF						

Electrical connection

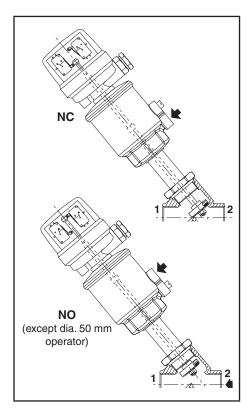
intrinsically safe inductive NAMUR contacts

Max. grip Cable entry 2 terminal strips with 5 screw terminals 2,5 mm²

1 cable gland (cable Ø 5-10 mm)







SPECIFICATIONS

operator	suffix ⁽¹⁾ signaling box supplied installed on valve 2 intrinsically safe inductive contacts
dia. 50 mm (NC), dia. 63, 90, 125 mm (NC-NO)	SH2

- Add the appropriate suffix after the catalogue number of the selected valve, example:
- catalogue number of valve alone E290B010
- catalogue number of valve + pre-installed intrinsically safe inductive contacts box = E290B010 SH2

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All leaflets are available on: www.asco.com

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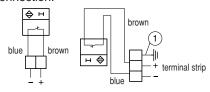


OPTIONS

• Other types of contacts: contact us

INSTALLATION

- The signaling box can be installed in any position
- Electrical connection:



1 Electrical continuity terminal

• Installation/maintenance instructions are included with each signaling box

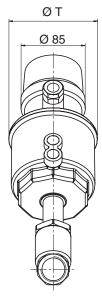
DIMENSIONS (mm), **WEIGHT** (kg) □

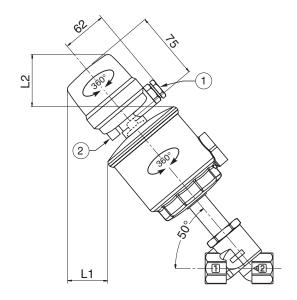


Weight of unit alone: 0,310

INSTALLATION ON SERIES 290 & 390

with dia 50 (NC), 63, 90 or 125 mm operator





operator dia.	50 mm	63 mm	90 mm	125 mm
L1	53	46	35	32
L2	75	70	56	50
øΤ	65	85	118	156

- 1 1 cable gland (cable Ø 5-10 mm)
- (2) Unit rotation lock set screw (orientable through 360°)