

OPTIONS ACCESSORIES

for valve series 290 and 390

GENERAL / CONSTRUCTION / SPECIFICATIONS

"Pressure Operated Valves (2/2)": 15, 19, 23, 25, 27, 31, 35 See catalogue pages "Pressure Operated Valves (3/2)": 1

CHC			catalogue page							NC	NO	NC	C operator dia.				T	body				
		see page	15 19 23 25 27 31 31 35 1 (3/2 section)			fluid entry under the disc	fluid entry under the disc	fluid entry above the disc			ıze ıless st		:									
01		Signaling box, with mechanical or inductive contacts	39					= : = :	=	=	=		•	•	•		•	•	•	%	(a. 11/a. (a. 11/a.	
02		Signaling unit for dia. 32 mm operators, with reed switch or magneto-resistive (MR) detectors	41		***		(DIN)	= :	= =	=			•		•	•					%	
03	6	Signaling unit for dia. 50, 63, 90 and 125 mm operators, with reed switch or magneto-resistive (MR) detectors	39					= : = :	=	=	⊨	<u></u>	•	•	•		•	•	•	½/ ½/	(1, '//), (1, '//),	
04		Stroke limiter for opening	38	 	 			= : = :	=	+	⊨		•	•	•		•	•	•		6. <i>116.</i>	
05		Manual safety device	38					= :	= =	=	=		•		•		•	•	•	•	(s. '//s.	
06	0)	Optical position indicator (Ø 32-50 mm) (Standard on dia. 63, 90 and 125 mm operators)	38				(DIN)	= :	: =	=	=		•	•	•	•	•	•	•		6	
07	1 8	Adapter plate for NAMUR pad-mount pilot	38					= :	= =	1	=		•	•	•			•	•	3 /3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/	(s. '//s.	
08	OXYGEN	Oxygen service (max. limits: 15 bar, +60°C)	38				DIN	= :	=		Ħ		•	•	•	•	•	•	•	• _%	%	
09		Vacuum applications up to 1.33 10 ⁻³ mbar	38				DIN	= :	=		1		•	•	•	•	•	•	•	• ½	(i, '//i,	
10		NET-INOX treatment	38			m		:	=	=			•	•	•	•	•	•	•	•	<i>'//,</i>	
11	EC 1935 / 2004	Conformity with Regulation (EC) 1935-2004	38				(DIN)		1	=			•	•	•	•	•	•	•		1//2.	
12		All stainless steel AISI 316L version (Recommended for aggressive environments) For valve catalogue numbers = contact us																				

网址: http://www.asco.store

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CONSTRUCTION 04

Stroke limiter for opening

- Fluid entry under the disc only
- Operator diameters 50 (NC), 63, 90 and 125 mm



Add suffix MS

CONSTRUCTION 05

TO ORDER: (for compatibility: see page 37)

Manual safety device

- Allows opening of a de-energized valve
- For normally closed (NC) valves only)

TO ORDER: (for compatibility: see page 37)

Add suffix M

ORDERING EXAMPLES:



ORDERING EXAMPLES: E 290B005 **MS** pipe thread - suffix basic number

CONSTRUCTION 06

Visual indication of open or closed position of NC valves with Ø 32 or 50 mm operator

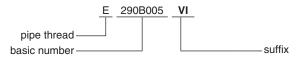
(standard with dia. 63, 90 and 125 mm operators)

Optical position indicator



Add suffix

ORDERING EXAMPLES:



CONSTRUCTION 07

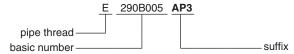
Adapter plate for NAMUR pad-mount pilot

- 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 37)

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

ORDERING EXAMPLES:





Add suffix N

ORDERING EXAMPLES:

pipe thread

basic number

CONSTRUCTION 08

Oxygen service

TO ORDER: (for compatibility: see page 37)

Special grease and cleaning

E 290B048 N

Pressure limited to 15 bar/temperature limited to +60°C



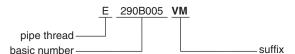
CONSTRUCTION 09

Vacuum applications up to 1,33 10-3 mbar

FPM disc for use with medium vacuum

TO ORDER: (for compatibility: see page 37) Add suffix VM

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 37)

Add suffix NI

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)

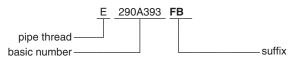
传真:(86-532)585-10-365

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TO ORDER: (for compatibility: see page 37)

Add suffix FB

ORDERING EXAMPLES:



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V435-38 **BCAE**

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suffix

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SIGNALING BOX

for series 290 and 390 valves with mechanical, inductive contacts



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
- It is rotatable through 360° and equipped with two mechanical or inductive con-
- The signaling box is supplied pre-installed and pre-adjusted on the valve. It can be delivered separately for on-site installation on any valve already in service
- The version with mechanical contacts can be used with up to max. 250 V AC and in magnetic field environments.

GENERAL / OPERATION

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.



Body

Cover PA, transparent

Protection rating IP65

Unit can be rotated through 360° around the centreline of the valve operator (set screw)

ELECTRICAL CHARACTERISTICS

mechanical contacts	inductive contacts
Breaking capacity of contacts: • resistive circuit: 3,2 A at 250 V AC • inductive circuit: 1,8 A under 250 V AC (cos Ø= 0.8)	10 to 30 V DC power supplyload current 200 mA max.built-in electrical protection

Electrical connection

mechanical contacts 1 terminal strip with 6 screw terminals 2 terminal strips with 2 screw terminals inductive contacts Max. grip 2,5 mm²

Cable entry 1 cable gland (cable Ø 5-10 mm)

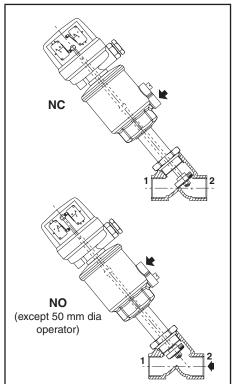
SPECIFICATIONS

operator	suffix (1) signaling box supplied installed on valve								
-	2 mechanical contacts	2 inductive contacts							
Ø 50 mm (NC) Ø 63, 90, 125 mm (NC-NO)	SM2	SI2							

- (1) 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 inductive contacts box = **E290B010 SI2**; The inductive contacts box is supplied installed on the valve and pre-adjusted.

NOTE - The signaling box can be supplied separately for on-site installation on any valve already in service (contact us).





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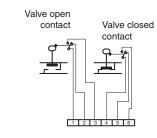
OPTIONS

· Other types of contacts: contact us

INSTALLATION

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

mechanical contacts



Terminal strip

inductive contacts (valve closed) Valve open contact Valve closed contact (red LED) (green LED) Terminal strip 1 2 Load Load (I max.: 200 mA) Power supply: 10 to 30 V DC

• Installation/maintenance instructions are included with each signaling box

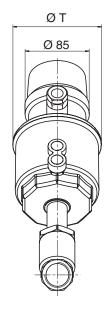
DIMENSIONS (mm), **WEIGHT** (kg)

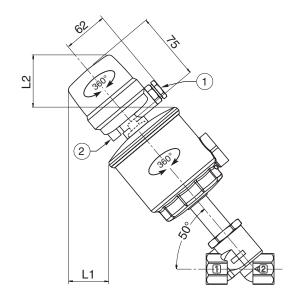


Weight of unit alone: 0,310

INSTALLATION SUR 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°)

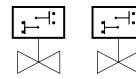
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COMPACT SIGNALING UNIT

operator and reed switch or magneto-resistive (MR) for series 290/390 valves with 32 - 125 mm dia "T"-type detectors



FEATURES

- The signaling unit fits all 290 (2/2) and 390 (3/2) valves with 32 mm/50 mm (NC), 63 to 125 mm (NC/NO) operators and electrically and visually indicates whether the valve is open or closed
- Size and shape adapted for easy valve installation
- Detectors held in place by lateral grooves
- Incorporated detectors for enhanced protection
- One standard detector support suitable for both reed switch and magneto-resistive (MR) "T"-type detectors

GENERAL / OPERATION

The magnet support of the compact signaling unit is attached to the stem of the valve and contains the permanent magnet. The extreme positions of the valve stem can therefore be detected by either the reed switch or the magneto-resistive detectors.

It is possible to install one or two detectors to monitor one or both extreme positions of a valve.

CONSTRUCTION

Support Detector encapsulation Cable

CHARACTERISTICS Max. breaking power Switching voltage stripped ends connector

Max. switching current Short-circuit protection Reverse polarity protection
Overload protection
Wiring
Voltage drop

Breakdown voltage Contact resistance Insulation resistance Max. leakage current
Max. allowable overvoltage Sensitivity Response time

opening closing Repeatability

Temperaturé range Degree of protection Protection class

Approval Signal indication

reserved.

design and specifications are subject to change without notice. All

Availability,

PA + FV PUR, resistant to cutting oils (PVC = M12, IP69K)

Magneto-resistive detector 3 W (DC) Reed switch detector 5 VA (AC) -5 W (DC)

AC/DC: 5 to 120 V max. AC: 5 to 50 V max. DC: 5 to 60 V max. 10 to 30 V DC 10 to 30 V DC

100 mA 100 mA No Yes Yes (without LED function) Yes No Yes PNP - NPN

1,5 V (I = 50 mA) 2,5 V (I = 100 mA) < 5 V

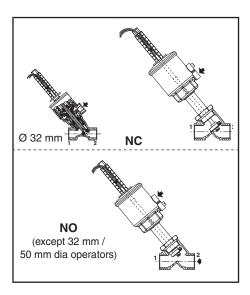
230 V DC max. 0,2 ohm 2.108 ohm at 100 V

< 50 µA
 32 V DC max. (100 ms)
 Min. 2,1 mTesla (21 Gauss) Min. 2 mTesla (20 Gauss)

110 µs 220 µs < 0,2 mm -25°C to +85°C IP67 / IP69K $0.1 \, \text{ms}$ 0,1 ms 0,6 ms < ± 0,2 mm -25°C to +70°C IP67 Cable outlet, class II Class III M8 + M12, class III

CE (UL, cUL 2m + M8) Yellow diode (LED) which lights up when contact is established





SPECIFICATIONS

1 SIGNALING SUPPORT

description	suffix
Signaling support supplied installed on valve	SU (1)

2 MAGNETIC POSITION DETECTOR (Detectors are always delivered separately.)

	description					catalogue number (1) (2)						
d					lead	reed switch detector	MR de	etector				
						reed Switch detector	PNP	NPN				
	2 wires	2 m				P494A0021300A00	-	-				
stripped ends	2 WIIES	5 m	IP67	PUR		P494A0021100A00	-	-				
suipped ends	3 wires	2 m		FUR		-	P494A0022300A00	P494A0022400A00				
	3 wires	5 m			(0,14 mm ²)	-	P494A0022100A00	-				
	3-pin plug-in male connector and Ø M8 0,3 m			PUR	³ <u>4</u> 1 - 4	P494A0021500A00	-	-				
			IP67		³ 4 1 - 3	P494A0021600A00	-	-				
					3 (4)1	-	P494A0022600A00	P494A0022700A00				
• 3-pin screw-tvr	3-pin screw-type male con-		IP67	PUR	3 2 4	P494A0021700A00	-	-				
nector, Ø M12		0,3 m			3 1 4	-	P494A0022800A00	-				
,	., 32				IP69K	PVC		-	P494A0022900A00	-		

Add the suffix "SU" after the catalogue number of the selected valve.

Example: catalogue number of valve alone E290A010 / catalogue number of valve + pre-installed signaling support E290A010SU + catalogue number of detector and required quantity Each catalogue number corresponds to one single detector.

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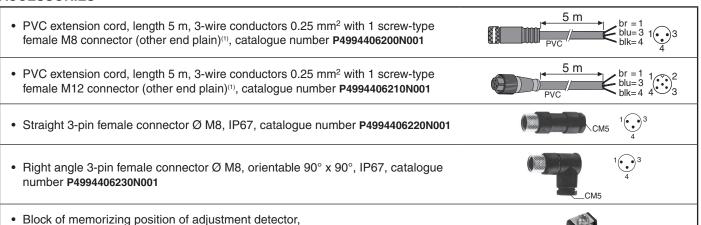
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INSTALLATION

- Polarised magneto-resistive (MR) detector with output protected against possible short-circuits on load at an output current lower than or equal to 0,1 A. In case of inductive load, use a diode in parallel with the load
- · Installation/maintenance instructions are supplied with each compact signaling unit

ACCESSORIES



⁽¹⁾ Detector connection:

catalogue number P4994406160N001

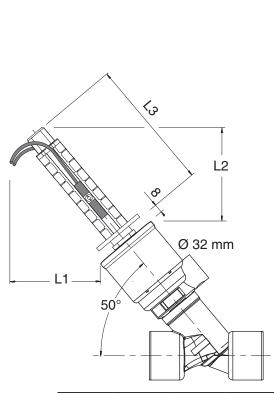
Magneto-resistive type: brown wire = +, blue wire = -, black wire = load

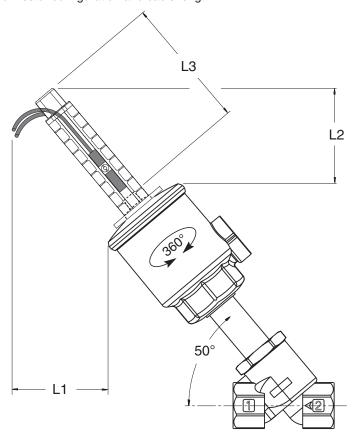
DIMENSIONS (mm), **WEIGHT** (kg)



Weight of signaling support: 0,25

Weight of one single detector: 0,007 to 0,050 depending on connector configuration and cable length





		operator dia.											
		32 mm (NC)	50 mm (NC)	63 mm	90 mm	125 mm							
Γ	L1	60	67	60	47	33							
Г	L2	66	47	42	38	19							
	L3	86	70	70	70	70							

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V435-42

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Industrial Automation

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