

# VALVES TO ATEX 2014/34/EU OPTIONS / ACCESSORIES



2/2 - 3/2 Series 298 - 398

for potentially explosive atmospheres series 298 and 398

#### **FEATURES**

- 2/2 NC/NO or 3/2 U valves designed for use in potentially explosive atmospheres according to ATEX Directive 2014/34/EU, category 2
- Compliance with the Essential Health and Safety Requirements of the ATEX Directive has been assured by compliance with European Standards EN 13463-1 and EN 13463-5

#### **GENERAL / CONSTRUCTION / SPECIFICATIONS**

Verify the compatibility of the category/zone with the selected valve.		catalogue page		classification (zones) category 2			
operator DN		Pressure Operated Valves:		gas			safety code (c)
diameter	DIN	2/2, pages ► <b>53</b> ( <u>E298</u> ), <b>57</b> ( <u>T298</u> ), <b>61</b> ( <u>S298</u> ) 3/2, pages ► <b>3</b> ( <u>E398</u> ), <b>7</b> ( <u>T398</u> ), <b>11</b> ( <u>S398</u> )	dusts	IIA	IIB	IIC	Salety Code W
Ø 80 mm	15	m = =					
Ø 100 mm	20 → 25			1	1	1	€ II 2 GD c x°C (Tx)
Ø 150 mm	32 → 40			'   '	'	'   '	₩ II 2 GD C X C (1X)
Ø 200 mm	50						

x°C (c)	(Tx) <sup>(c)</sup>	Ts amb (c)	T fluid (c)
260°C	(T2)	180°C	250°C
200°C	(T3)	180°C	195°C
135°C	(T4)	130°C	130°C
100°C	(T5)	95°C	95°C
85°C	(T6)	80°C	80°C

c) x°C = Surface temperature (Tx) = Temperature class Ts amb = Ambient temperature T fluid = Fluid temperature

ORDERING	option code (1) category 2
Verify the compatibility of the category/zone with the selected valve.	AT1

<sup>(1)</sup> Example: Valve E298, DN 20, solenoid operator Ø100 mm for use in zones 1 and 21 (category 2), catalogue number: **E298B04D0VAT100** 

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## **ASV**Δ

### SIGNALING BOX

for series 298 and 398 valves with intrinsically safe inductive contacts NAMUR, ATEX 2014/34/EU

Series 885

#### **FEATURES**

- The signaling box fits all series 298 (2/2) and 398 (3/2) valves 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  $360^\circ$

#### **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.

Safety code

x°C (c)	(Tx) (c)	Ts amb (c)	T fluid (c)
85°C	(T6)	80°C	80°C

 $\bigotimes$  II 2 GD c IIB T6 T85°C  $\times$  x°C = Surface temperature

(Tx) = Temperature class
Ts amb = Ambient temperature
T fluid = Fluid temperature

Ambient temperature for operation of

inductive detectors

-20°C to +70°C

**CONSTRUCTION** 

Body, cover PA
Degree of protection IP66

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: 67).

Contact characteristics:

- Power supply: 8,2 V DC nominal
   Control in a few sections of the section of the section
- Switching frequency: 1 kHz
   Protection rating of contacts:

 Registration & Tests: PTB 01 ATEX 2191 BVS 04 ATEX E153 IECEX BVS 06.0003 EMC EN 60947-5-6

 Recommended interfaces: galvanic barrier

Pepperl & Fuchs type KFA6-SR2-EX1.W MTL instruments type MTL5011B

ZENER barrier

MTL instruments type MTL7742

Connection to certified intrinsic safety circuits with maximum values.

safety parameters						
U <sub>i</sub>	I,	P,	L,	C,		
15 V	50 mA	120 mW	110 μΗ	80 nF		

#### Electrical connection of box

intrinsically safe inductive NAMUR contacts

2 terminal strips with 5 screw terminals 2,5 mm<sup>2</sup>

Max. grip Cable entry

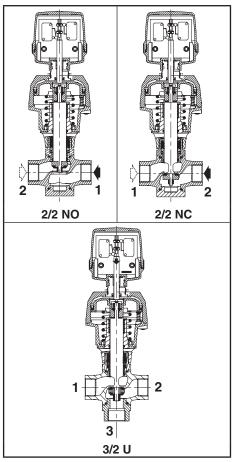
1 cable gland (cable Ø 5-10 mm)

#### **SPECIFICATIONS**

operator	option code (1) signaling box supplied installed on valve 2 intrinsically safe inductive contacts NAMUR	
Ø 80 mm, Ø 100 mm, Ø 150 mm, Ø 200 mm	1S2	

- (1) Add the appropriate digits after the catalogue number of the selected valve, example:
  - catalogue number of valve alone **E298B0370TA0000**
  - catalogue number of valve + pre-installed intrinsically safe inductive contacts box = **E298B0370V1S200**





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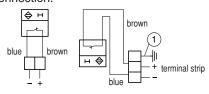


#### **OPTIONS**

• Other types of contacts: contact us

#### **INSTALLATION**

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

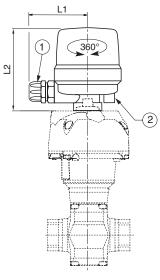


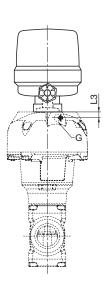
- 1 Electrical continuity terminal
- Installation/maintenance instructions are included with each signaling box

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



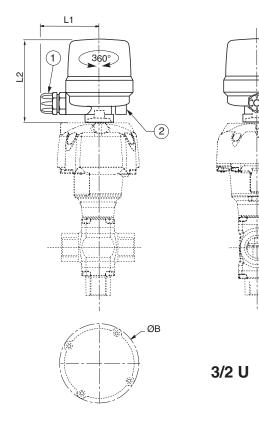
Weight of unit alone: 0,310











operator dia.	80 mm	100 mm	150 mm	200 mm
L1	68	68	68	68
L2	100	100	100	100
L3	7	8	12	15
ø G	1/8	1/8	1/4	1/4
øΒ	110	132,5	191	247

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