

FEATURES

- Explosion proof operator, intended for use in potentially explosive atmospheres, according to Directive ATEX 94/9/EC
- EC type examination certificate (KEMA 98 ATEX 2544) and IECEx certificate (IECEx KEM 08.0017) are in compliance with the International and European Standards IEC and EN: 60079-0, 60079-11, 60079-26, 61241-0 and 61241-11
- This highly efficient solenoid operates at very low power level (0.4W)
- The continuous duty class F polypropylene moulded spade plug connector coil contains moulded in solid state components for switch-off peak voltage suppression, independent polarity connection and electronic enhancement
- Ingress protection degree IP65
- Enclosure provided with integral strain relief for cables with an o.d. from 6 to 10 mm
- A wide range of valves can be supplied with the operator

CONSTRUCTION

Solenoid enclosure

Core, tube, springs & plugnut

Seals and discs

Riddering

Connector specification

Nameplate

Cartridge

PP (polypropylene)
Stainless steel
NBR (nitrile)
PTFE (polytetrafluoroethylene)
ISO 4400
Stainless steel
Welded, packless AISI 430 SS

ELECTRICAL CHARACTERISTICS

Standard voltages

DC (=) : 24V nominal

A minimum current of 28 mA is necessary for optimal performance. The minimum series resistance required is 200 Ohms. The nominal value of the resistance of the coil is 158 Ohms. (at 20 degrees C)

SAFETY CODE

II 1G Ex ia IIC T6 (gas)
II Ex iaD 21 T85°C IP65 (dust)

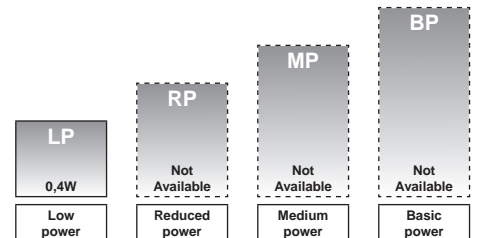
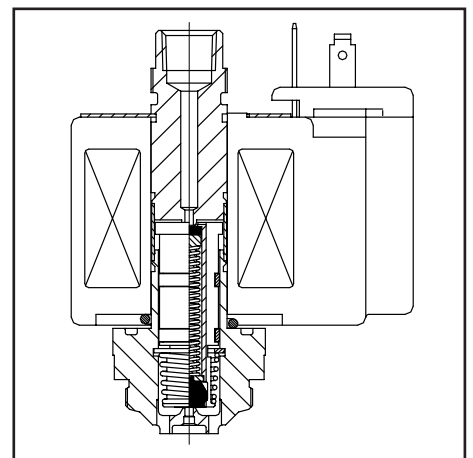
prefix option	safety parameters				
	U _i = (DC) (V)	I _i (mA)	P _i (W)	L _i (mH)	C _i (µF)
Low power (LP)					
WPIS	< 32	500	1,5	0	0
WSIS	< 32	500	1,5	0	0

TEMPERATURE CLASSIFICATION TABLES

The minimum allowable ambient temperature is -40°C for the operator. Select the requested "T" classification from the temperature classification tables (AC or DC), respecting the maximum ambient temperature and cold (20°C) electrical holding power values.

DC (=) Solenoids

power level (watt)	insulation class	maximum ambient ⁽¹⁾ temp. "T" classification		
		T6 (G) 85°C (D)	T5 (G) 100°C (D)	T4 (G) 135°C (D)
Low power (LP)				
0,4	F	60°C	-	-



POWER LEVELS - cold electrical holding values (watt)

PREFIX TABLE

prefix							description	power level			
1	2	3	4	5	6	7		LP	RP	MP	BP
I	S		S	C			Intrinsically safe with SC coil (EN/IEC 60079-11+26, 61241-11)*	○	-	-	-
						X	Other special constructions	○	-	-	-

- Available feature in DC only
- Not available
- * ATEX solenoids are also approved according to EN 13463-1 (non electrical valves)

PRODUCT SELECTION GUIDE

(The selection can only be made in conjunction with the appropriate valve catalogue sheet)

STEP 1

Select basic valve catalogue number, including pipe thread identification letter from one of the specification tables on the separate catalogue pages.

Example: B314A300

STEP 2

Select voltage. Refer to standard voltages on page 1.

Example: 24V DC

STEP 3

Select solenoid prefix (combination). Refer to the prefix table on this page and respect the indicated power level, cold electrical holding values and "T" classification mentioned on page 1.

NOTE: Make sure that the ambient temperature does not exceed the allowable valve temperature characteristics.

Example: ISSC

60°C ambient

Low Power (LP) 0.4W

II 1G Ex ia IIC T6

II Ex iaD 21 T85°C IP65

STEP 4

Final catalogue / ordering number.

Example:

ISSC B314A300 24V DC

ORDERING EXAMPLES VALVES:

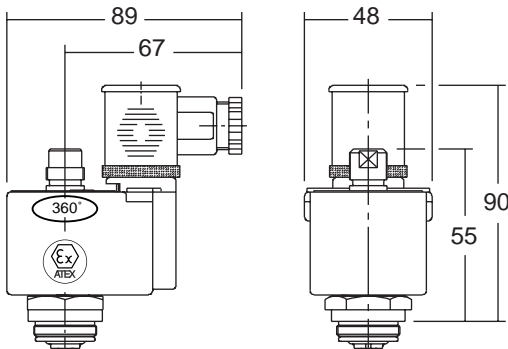
ISSC	8	552A317	24V / DC
ISSC	B	316A301	24V / DC
ISSC	B	307A345 U	24V / DC
ISSC	G	551B301 MO	24V / DC

Diagram showing the breakdown of the valve code: ISSC (prefix), 8 (pipe thread), 552A317 (basic number), 24V / DC (voltage suffix).

INSTALLATION

- Multi language installation/maintenance instructions are included with each valve
- The solenoid operators can be mounted in any position without affecting operation
- Application of the operator, located within hazardous areas, is not permitted without the addition of an approved and classified device (such as barriers) located between the safe and hazardous area
- The operator can be rotated 360° to select the most favourable position for cable entry

DIMENSIONS (mm), WEIGHT (kg)



prefix	weight
ISSC	0,4 kg

All leaflets are available on: www.asconumatics.eu