ASCA

OPERATORS

intrinsically safe II 1G Ex **ia** IIC T6, II 2D Ex **iaD** 21 IP67 steel or stainless steel enclosure

WPISX WSISX TPL 27249

FEATURES

- Explosion proof operator, intended for use in potentially explosive atmospheres, according to Directive ATEX 2014/34/EU
- EC type examination certificate (KEMA 98 ATEX 2544X) and IECEx certificate (IECEx KEM 08.0017) are in compliance with the International and European Standards IEC and EN: 60079-0, 60079-11 and 60079-26
- This highly efficient solenoid operates at very low power level (0.4W)
- Coils have class H insulation materials and contain moulded in solid state components for switch-off peak voltage suppression.
- Enclosure provided with integral strain relief for cables with an o.d. from 7 to 12 mm

WPISX

WSISX

- Ingress protection degree IP66/67
- A wide range of valves can be supplied with the operator

CONSTRUCTION Solenoid enclosure

Core, core tube & plugnut Seals and discs Riddering **Connector specification** Nameplate Cartridge **Coil connection**

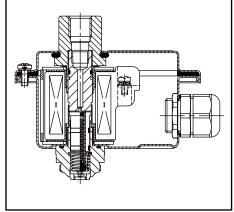
Stainless steel, AISI 316 Stainless steel **NBR** PTFE ISO 4400 Welded, packless AISI 430 SS Embedded screw terminals Polyamide (PA), M20x1.5

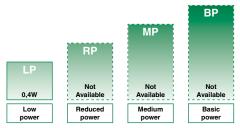
SAFETY CODE

II 1G Ex ia IIC T6 (gas) II 2D Ex iaD 21 T85°C IP67 (dust)

Zinc plated steel (epoxy coated)

IEC *IEĈE*x ⟨£x⟩ **⟨**€





POWER LEVELS - cold electrical holding values (watt)

ELECTRICAL CHARACTERISTICS Standard voltages

DC (=): 24V nominal

Cable gland

A minimum current of 32 mA is necessary for optimal performance. The minimum series resistance required is 200 Ohms. The nominal value of the resistance of the coil is 406 Ohms. (at 20 degrees C)

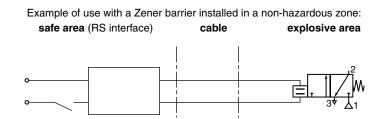
	safety parameters							
prefix option	U _i I _i		P _i	L _i	C,			
	(V)	(mA)	(W)	(mH)	(µF)			
Low power (LP)								
WPISX WSISX	< 32 < 32	500 500	1,5 1,5	0	0			

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	ation rials	maximum ambient (1) temp. "T" classification					
level (watt)	insulat materi	T6 (G) 85°C (D)	T5 (G) 100°C (D)	T4 (G) 135°C (D)			
Low power (LP)							
0,4	Н	60°C	-	-			





Thorne & Derrick DERRICK +44 (0) 191 490 1547
INTERNATIONAL www.heatingandprocess.com

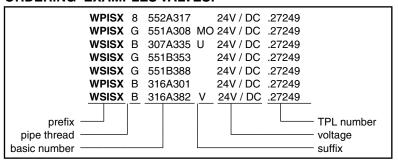


PREFIX TABLE

	prefix			description	power level		el				
1	2	3	4	5	6	7		LP	RP	MP	BP
W	PS	E	Т	— —			I.S. with Metal IP67 enclosure (EN/IEC 60079-11+26)* I.S. with 316 SS IP67 enclosure (EN/IEC 60079-11+26)* Threaded conduit/hole (M20 x 1,5) Threaded conduit (1/2" NPT) Other special constructions	00000			- - - -

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

ORDERING EXAMPLES 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 indentification letter from one of the specification tables on the separate catalogue pages.

Example: B314A315 U

STEP 2

Select voltage. Refer to standard voltages on page 1. Example: 24V DC

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

Example: WPISX 60°C ambient

Low Power (LP) 0.4W II 1G Ex ia IIC T6 II Ex iaD 21 IP67 T85°C

STEP 4

characteristics

Final catalogue / ordering number.

Example:

WPISX B314A315 U 24V DC .27249

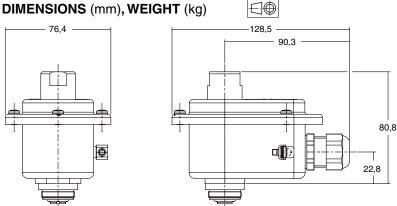
ADDITIONAL OPTIONS

- Brass nickel plated or stainless steel cable gland
- Conduit hub, 1/2"NPT, M20x1,5, 3/4"NPT or M25x1,5 in aluminium or stainless steel

INSTALLATION

- Multi language installation/maintenance instructions are included with each valve
- The solenoid operator 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
- Solenoid enclosure has a cable gland with integral strain relief for cables with an o.d. from 7 to 12 mm and is provided with an internal and external connection facility for an earthing or bonding conductor





prefix	weight
WPISX	0,85 kg
WSISX	0,85 kg

