



**OPERATORS** for potentially explosive atmospheres (mining)  
 flameproof enclosure, I M2 EEx d I  
 stainless steel

Series

**WSNFX**  
**TPL 25250**

**FEATURES**

- Explosion proof operator, intended for use in potentially explosive atmospheres (mining), according to Directive ATEX 94/9/EC
- EC type examination certificate (FTZU 04 ATEX 0213X) is in compliance with the European Standards EN 50014 and EN 50018
- Easy electrical installation by means of a screw terminal coil
- Enclosure provided with a 1/2 NPT or M20 x 1,5 threaded entry hole for a broad range of cable glands
- Ingress protection degree IP67
- The operator is available as both a push or pull type solenoid and can be supplied on a wide range of valves with ASCO interface

**CONSTRUCTION**

<b>Solenoid enclosure</b>	Stainless steel (AISI 316LSS)
<b>Bonnet</b>	Stainless steel (nickel plated)
<b>Core, tube, springs &amp; plugnut</b>	Stainless steel
<b>Shading coil</b>	Copper or silver
<b>Nameplate</b>	Stainless steel
<b>Coil connection</b>	Embedded screw terminals
<b>Fasteners &amp; screws</b>	Stainless steel

**ELECTRICAL CHARACTERISTICS SAFETY CODE**

**Standard voltages:** I M2 EEx d I  
 DC (=) : 24V - 48V  
 AC (~) : 24V - 48V - 115V - 230V / 50 Hz  
 (Other voltages and 60 Hz on request)

**TEMPERATURE TABLES**

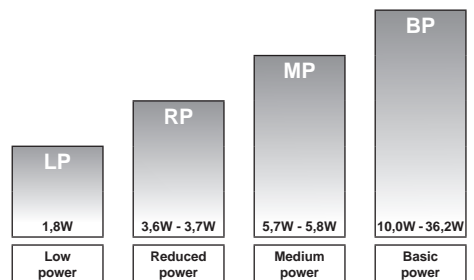
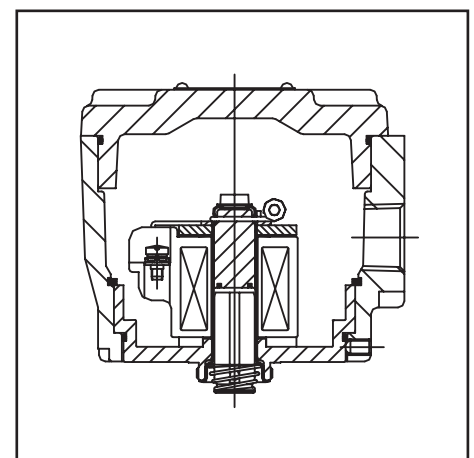
The minimum allowable ambient temperature is -60°C for the operator.  
 Select the requested "T" classification from the temperature classification tables (AC or DC), respecting the maximum ambient temperature and cold (20°C) electrical holding power values.

AC (~) Solenoids

power level (watt)	insulation class	maximum ambient <sup>(1)</sup> temp. "T" classification		
		T6 (G) 85°C (D)	T5 (G) 100°C (D)	T4 (G) 135°C (D)
<b>Low power (LP)</b>				
1,8 <sup>(2)</sup>	F	75°C	80°C	-
<b>Reduced power (RP)</b>				
3,7 <sup>(2)</sup>	F	60°C	75°C	100°C
<b>Medium power (MP)</b>				
5,8 <sup>(2)</sup>	F	60°C	75°C	100°C
<b>Basic power (BP)</b>				
10,0 <sup>(2)</sup>	F	40°C	60°C	75°C
10,0 <sup>(2)</sup>	F	40°C	60°C	100°C
10,5	F	25°C	40°C	60°C
10,5	H	25°C	40°C	75°C
13,4 <sup>(2)</sup>	F	40°C	60°C	75°C
14,1 <sup>(2)</sup>	F	40°C	60°C	90°C
15,4	F	25°C	40°C	60°C
15,4	H	25°C	40°C	75°C
16,5	F	40°C	60°C	75°C
16,7	F	-	25°C	40°C
16,7	H	-	25°C	60°C
20,0	F	-	25°C	40°C
20,0	H	-	25°C	60°C
20,5	H	-	-	25°C
28,0	H	-	-	25°C

DC (=) Solenoids

power level (watt)	insulation class	maximum ambient <sup>(1)</sup> temp. "T" classification		
		T6 (G) 85°C (D)	T5 (G) 100°C (D)	T4 (G) 135°C (D)
<b>Low power (LP)</b>				
1,8	F	75°C	80°C	-
<b>Reduced power (RP)</b>				
3,6	F	60°C	75°C	100°C
<b>Medium power (MP)</b>				
5,7	F	60°C	75°C	100°C
<b>Basic power (BP)</b>				
10,0	F	40°C	60°C	100°C
11,2	F	40°C	60°C	75°C
11,2	H	40°C	60°C	100°C
14,0	F	40°C	60°C	90°C
16,8	F	40°C	60°C	75°C
16,8	H	40°C	60°C	100°C
17,4	H	25°C	40°C	60°C
19,7	F	25°C	40°C	60°C
19,7	H	40°C	60°C	75°C
23,0	F	25°C	40°C	60°C
23,0	H	25°C	40°C	75°C
26,6	H	25°C	40°C	60°C
29,5	H	-	25°C	40°C
36,2	H	-	25°C	40°C



POWER LEVELS - cold electrical holding values (watt)

<sup>(1)</sup> Make sure that the selected ambient temperature does not exceed the allowable valve temperature characteristics as specified on the appropriate valve catalogue sheets.  
<sup>(2)</sup> AC (~) rectified coil construction

All leaflets are available on: [www.asconumatics.eu](http://www.asconumatics.eu)

### PREFIX TABLE

prefix							description	power level			
1	2	3	4	5	6	7		LP	RP	MP	BP
				E	T		Threaded conduit/hole (M20 x 1,5)	●	●	●	●
W	S	N	F				Flameproof - 316 SS (EN/IEC 60079-1, 61241-1)*	●	●	●	●
						X	Other special constructions	●	●	●	●

● Available feature

\* 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: 8327B002**

#### STEP 2

Select voltage. Refer to standard voltages on page 1.

**Example: 230V / 50Hz**

#### STEP 3

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

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

**Example: WSNFX**

**75°C ambient**

**Basic Power (BP) 10W**

**I M2 EEx d I**

#### STEP 4

Final catalogue / ordering number.

**Example:**

**WSNFX 8327B002 230V / 50 Hz**

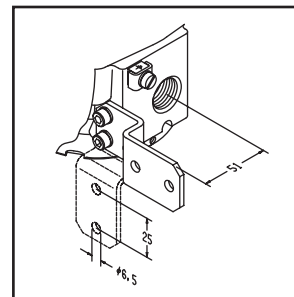
**TPL 25250**

### ORDERING EXAMPLES / VALVES:

<b>WSNFX</b>	<b>8</b>	<b>327B001</b>	<b>230V / 50 Hz</b>
<b>WSNFETX</b>	<b>G</b>	<b>327B001 MS</b>	<b>230V / 50 Hz</b>
<b>WSNFX</b>	<b>B</b>	<b>320A184 E</b>	<b>24V / DC</b>
<b>WSNFX</b>	<b>B</b>	<b>316A054 V</b>	<b>230V / 50Hz</b>
<b>WSNFETX</b>	<b>B</b>	<b>316B076 CO</b>	<b>240V / 60 Hz</b>

prefix — pipe thread — basic number — voltage — suffix

### MOUNTING BRACKET



Bracket kit no.: C139824  
contains: Stainless steel  
304 SS screws and bracket

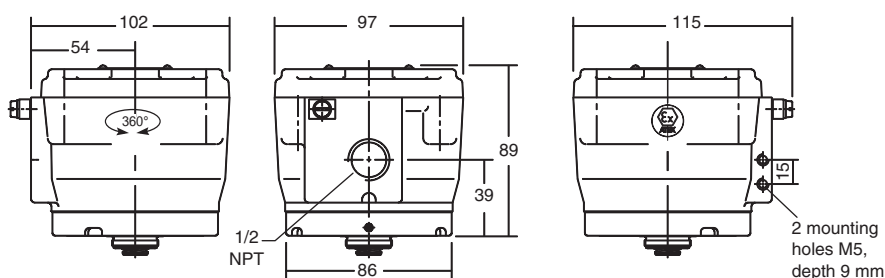
### ADDITIONAL OPTIONS

- Special moulded-in solid state components for peak voltage suppression and/or AC (~) rectification

### INSTALLATION

- Multi language installation/maintenance instructions are included with each valve
- The solenoid operators can be mounted in any position without affecting operation
- Any certified flameproof cable entry device for potentially explosive atmospheres (mining) can be fitted in the 1/2" NPT (M20 x 1,5 as an option) threaded entry hole, refer to the nameplate for identification of the maximum cable temperature
- Internal and external earthing connection
- The operator can be rotated 360° to select the most favourable position for cable entry

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



prefix	weight
WSNFX	2,7 kg

All leaflets are available on: [www.asconumatics.eu](http://www.asconumatics.eu)