

OPERATORS

for potentially explosive atmospheres flameproof enclosure II 2G/D Ex **d** IIC T6..T4 Gb / Ex **tb** IIIC Db IP66/IP67 aluminium or stainless steel enclosure







FEATURES

 Explosion proof operator for use in potentially explosive atmospheres according to ATEX-Directive 2014/34/EU

EC type examination certificate no.: LCIE 00 ATEX 6008 X IECEx Certificate of Conformity no.: IECEx LCI 07.0015X

- Compliance with the Essential Health and Safety Requirements has been assured by compliance with the International and European Standards EN-IEC 60079-0, EN-IEC 60079-1 and EN-IEC 60079-31
- · Easy electrical installation by means of a screw terminal coil
- Enclosure provided with a 1/2 NPT threaded entry hole (M20 x 1,5 in option) for a broad range of cable entries
- Ingress protection degree IP66/67
- A wide range of valves can be supplied with the operator

CONSTRUCTION

Solenoid enclosure NF Chromated aluminium, epoxy coated

WSNF Stainless steel (AISI 316L)

Bonnet NF Steel (zinc plated)

WSNF Stainless steel (nickel plated)

Core, core tube and plugnutallStainless steelShading coilallCopper or silverNameplateNFStainless steel

WSNF Stainless steel

Coil connection all Embedded screw terminals

Fasteners & screws all Stainless steel

ELECTRICAL CHARACTERISTICS

Standard voltages DC (=): 24V - 48V

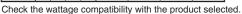
(Other voltages and 60 Hz on request) AC (~): 24V - 48V - 115V - 230V(3) / 50 Hz

TEMPERATURE CLASSIFICATION TABLES

AC (~) solenoids DC (=) solenoids

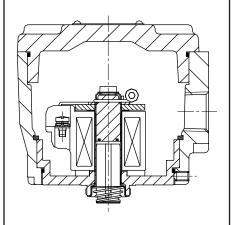
	solenoid size			maximum ambient °C (1)				
Pn				surface temperature			ire	
(watt)	MXX	M12			T6 85°C	T5 100°C	T4 135°C	T3 200°C
insulation class F/H (155°C/180°C) 100% E.D.								
1,85(2)(3)		•			75	80		
3,7 (2)		•			60	75	100	
5,8 (2)		•			60	75	100	
10,0 (2)	•				40	60	75	
10,0 (2)		•			40	60	100	
10,5	•				25	40	60	
13,4 ⁽²⁾	•				40	60	75	
14,1 ⁽²⁾		•			40	60	90	
15,4		•			25	40	60	
16,5		•			40	60	75	
16,7	•					25	40	
20,0		•				25	40	
20,5	•						25	
28,0		•					25	

	solenoid size		maximum ambient °C (1)					
Pn					su	rface te	mperatu	ire
(watt)	MXX	M12			T6 85°C	T5 100°C	T4 135°C	T3 200°C
insulation class F/H (155°C/180°C) 100% E.D.								
1,8		•			75	80		
3,6		•			60	75	100	
5,7		•			60	75	100	
10,0		•			40	60	100	
11,2	•				40	60	75	
14,0		•			40	60	90	
16,8		•			40	60	75	
19,7	•				25	40	60	
23,0		•			25	40	60	
26,6		•			25	40	60	
29,5		•				25	40	
36,2		•				25	40	



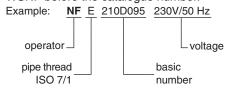
- (1) The minimum allowable ambient temperature is -60°C for the operator. Actual temperature range can be limited depending on valve operation limits.
- (2) AC (~): rectified coil construction.
- (3) 230 V AC does not exist (Pn 1,85 W).





ORDERING INFORMATION

A valve supplied with the explosion proof operator will be identified with prefix NF or WSNF before the catalogue number.



A valve supplied with the explosion proof operator will be identified with electrical interface FN, FS, FT or FU in the 15-digit product code.

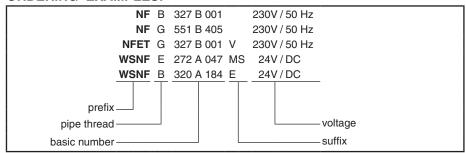
15-DIGIT PRODUCT CODE E 262 K 232 FN V00 H1 Thread connection Product series Revision letter Valves version Electrical interface FN = NF FS = WSNF FT = NFET FU = WSNFET

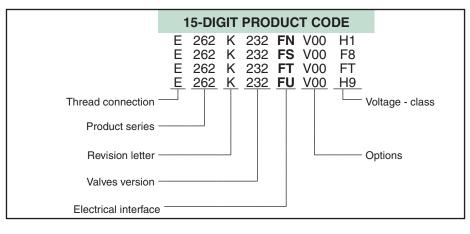


OPTIONS

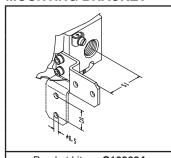
• Operators for mining, I M2 Ex d I, contact us

ORDERING EXAMPLES:





MOUNTING BRACKET



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

CONNECTIONS

- Any ATEX approved cable entry device can be fitted in the 1/2 NPT threaded entry hole (M20 x 1.5 in option). Refer to the nameplate for identification of the maximum cable temperature
- Internal and external earthing connection
- The operator can be rotated through 360° to select the most favourable position for cable entry

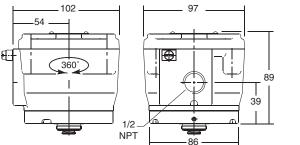
DIMENSIONS (mm), **WEIGHT** (kg) □



II 2G Ex d IIC Gb, II 2D Ex tb IIIC Db IP66/67



TYPE NF-WSNF Prefix "NF", "WSNF" Solenoid / Electrical interface FN/FS/FT/FU Aluminium, stainless steel (NF, epoxy coated) EN-IEC 60079-1 and EN-IEC 60079-31



115
1

series	weight
NF	1,4
WSNF	2,7

(1) 2 mounting holes M5, depth 9 mm