

FEATURES

- Explosionproof operator for use in potentially explosive atmospheres according to ATEX-Directive ATEX 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 plugnut

all Stainless steel

Shading coil

all Copper or silver

Nameplate

NF Stainless steel

WSNF Stainless steel

Coil connection

all Embedded screw terminals

Fasteners & screws

all Stainless steel

Safety code

IECEX / II 2G Ex d IIC T6..T4 Gb

IECEX / II 2D Ex tb IIC 85°C..135°C Db IP66/67

ELECTRICAL CHARACTERISTICS

Standard voltages

(Other voltages and 60 Hz on request)

DC (=) : 24V - 48V

AC (~) : 24V - 48V - 115V - 230V⁽³⁾ / 50 Hz

TEMPERATURE CLASSIFICATION TABLES

AC (~) solenoids

Pn (watt)	solenoid size				maximum ambient °C ⁽¹⁾			
	MXX	M12			surface temperature			
					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	

DC (=) solenoids

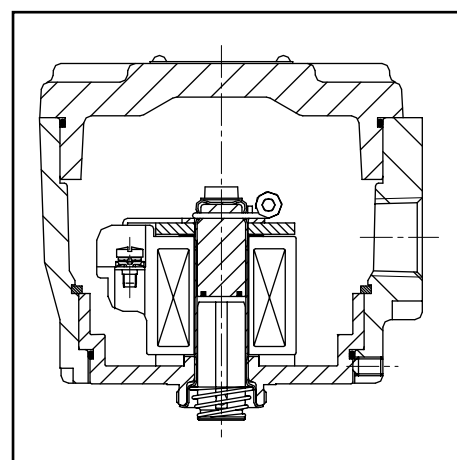
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	MXX	M12			surface temperature			
					T6 85°C	T5 100°C	T4 135°C	T3 200°C
insulation class F/H (155°C/180°C) 100% E.D.								
1,8		●			75	80		
3,6		●			60	75	100	
5,7		●			60	75	100	
10,0		●			40	60	100	
11,2	●				40	60	75	
14,0		●			40	60	90	
16,8		●			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	

Check the wattage compatibility with the product selected.

⁽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 explosionproof operator will be identified with prefix NF or WSNF before the catalogue number.

Example: **NF E 210D095 230V/50 Hz**

operator
pipe thread ISO 7/1
voltage
basic number

OPTIONS

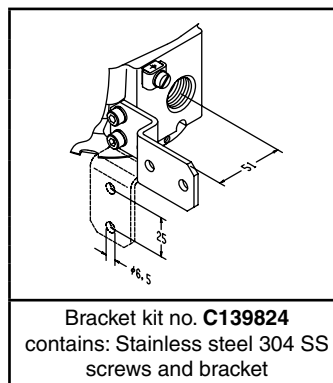
- Operators for mining, I M2 Ex d I, contact us

ORDERING EXAMPLES:

NF	B	327 B 001	230V / 50 Hz
NF	G	551 B 405	230V / 50 Hz
NFET	G	327 B 001 V	230V / 50 Hz
WSNF	E	272 A 047 MS	24V / DC
WSNF	B	320 A 184 E	24V / DC

prefix	_____	voltage	_____
pipe thread	_____	suffix	_____
basic number	_____		

MOUNTING BRACKET



CONNECTIONS

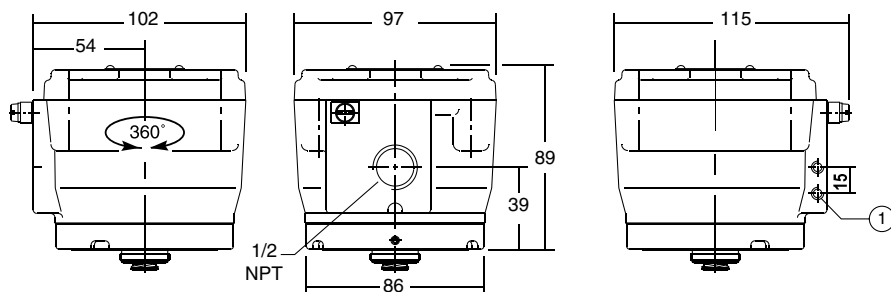
- Any ATEX approved cable entry device can be fitted in the 1/2 NPT threaded entry hole (M20 x 1.5 in option). Refer to the nameplate for identification of the maximum cable temperature
- Internal and external earthing connection
- The operator can be rotated through 360° to select the most favourable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

DIMENSIONS (mm), WEIGHT (kg)



TYPE NF-WSNF

Prefix "NF", "WSNF" Solenoid
Aluminium, stainless steel
(NF, epoxy coated)
EN-IEC 60079-1 and EN-IEC 60079-31
II 2G Ex d IIC Gb, II 2D Ex tb IIIC Db IP66/67



prefix	weight
NF	1,4
WSNF	2,7

- ① 2 mounting holes M5, depth 9 mm



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