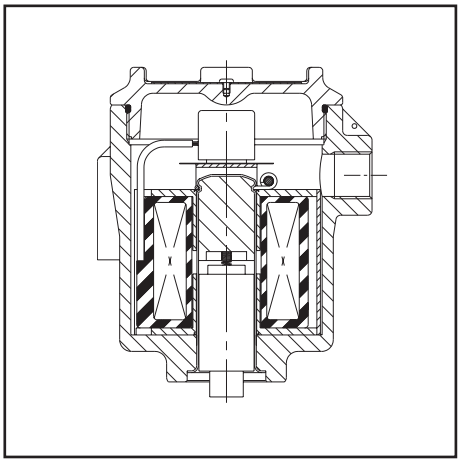
OPERATORS

for potentially explosive atmospheres
flameproof enclosure
II 2 G/D Ex **d** IIC / Ex **t** IIIC / IP66
stainless steel, cast iron

Series
NA
NB

FEATURES

- *Explosion proof operator, intended for use in Potentially explosive atmospheres, according to Directive ATEX 94/9/EC*
- *EC type examination certificate (BAS 02 ATEX 2157 and IECEx SIR 0.0051) is in compliance with the International and European Standards IEC and EN: 60079-0, 60079-1 and 61241-1*
- *Easy electrical installation by means of a terminal block*
- *Enclosure provided with a 1/2 NPT or M20 x 1,5 threaded entry for a broad range of cable glands*
- *Ingress protection degree IP66*
- *Only a limited range of valves can be supplied with the operator*



CONSTRUCTION

	NA	NB
Solenoid enclosure	Stainless Steel (AISI 316 L)	Cast iron, epoxy coated
Core, tube, springs & plugnut	Stainless steel	Stainless steel
Shading coil	N/A(1) (2)	N/A(1) (2)
Nameplate	Stainless steel	Stainless steel
Cable connection	Terminal block	Terminal block
Fasteners & screws	Stainless steel	Stainless steel

ELECTRICAL CHARACTERISTICS

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

SAFETY CODE

II 2G Ex d IIC T6 to T3 (gas)
II 2D Ex t IIIC IP66 85°C to 200° (dust)

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.

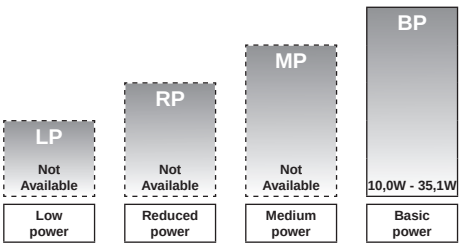
AC (~) Solenoids

power level (watt)	insulation class	maximum ambient(3) temp.(4) "T" classification			
		T6 (G) 85°C (D)	T5 (G) 100°C (D)	T4 (G) 135°C (D)	T3 (G) 200°C (D)
Basic power (BP)					
NA					
14,20(1)	F	-	-	60°C	80°C
17,05(2)	F	-	-	40°C	80°C
-	-	-	-	-	-
NB					
14,20(1)	F	-	50°C	80°C	-
17,05(2)	F	-	40°C	70°C	80°C
-	-	-	-	-	-

DC (=) Solenoids

power level (watt)	insulation class	maximum ambient(3) temp.(4) "T" classification			
		T6 (G) 85°C (D)	T5 (G) 100°C (D)	T4 (G) 135°C (D)	T3 (G) 200°C (D)
Basic power (BP)					
NA					
10,0(1)	F	-	-	60°C	80°C
21,4(2)	F	-	-	40°C	80°C
35,1	F	-	-	-	50°C
NB					
10,0	F	40°C	50°C	80°C	-
21,4	F	-	-	60°C	80°C
35,1	F	-	-	50°C	-

(1) AC (~) Full wave rectified coil construction
(2) AC (~) Back wave rectified coil construction
(3) Make sure that the selected ambient temperature does not exceed the allowable valve temperature characteristics as specified on the appropriate valve catalogue sheets.
(4) The minimum ambient temperature for the solenoid is -40°C



POWER LEVELS - cold electrical holding values (watt)

80230GB-2011/R01

BCAE Automation Solutions
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Email：sales@bechinas.com

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)	-	-	-	●
N	A						Flameproof - 316 SS (EN/IEC 60079-1, 61241-1)*	-	-	-	●
N	B						Flameproof - Cast Iron (EN/IEC 60079-1, 61241-1)*	-	-	-	●
						X	Other special constructions	-	-	-	●

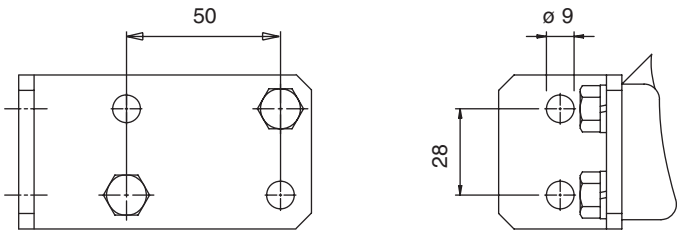
● Available feature
* ATEX solenoids are also approved according to EN 13463-1 (non electrical valves)

ORDERING EXAMPLES VALVES:

NBET B 307C019 24V / DC
NB B 307C008 F 230V / 50Hz
NAET B 307C069 24V / DC
NA B 307C038 U 110V / 50Hz

prefix
pipe thread
basic number
voltage
suffix

MOUNTING BRACKET



Bracket kit no.: C115065
contains: Stainless steel
304 SS screws and bracket

PRODUCT SELECTION GUIDE

(The selection can only be made in conjunction with either the 307 or 326 series valves)

STEP 1
Select basic valve catalogue number, including pipe thread indentification letter from one of the specification tables on the separate catalogue pages.
Example: B307C008U

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, 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: NBET
40°C ambient
Basic Power (BP) 17.05W
II 2G Ex d IIC T5
II 2D Ex t IIIC IP66 T100°C

STEP 4
Final catalogue / ordering number.
Example:
NBET B307C008U 230V / 50 Hz

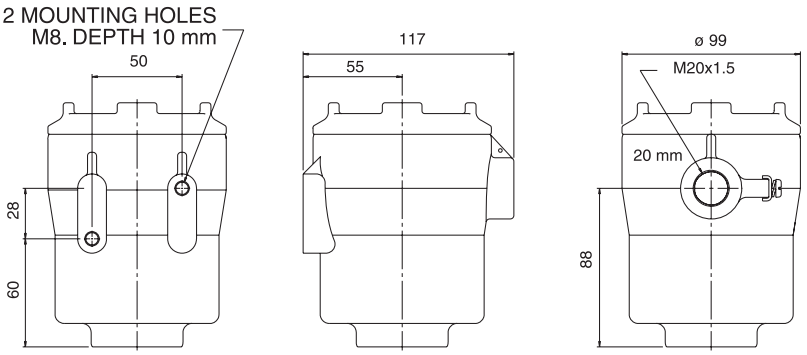
ADDITIONAL OPTIONS

- A non polarised voltage surge suppressor is available for DC constructions
- Cable glands (Flameproof cable entry devices for cable 8,5-16 mm or 9-12 mm) refer to section 15

INSTALLATION

- Multi language installation/maintenance instructions are included with each valve
- The solenoid operators can be mounted in any position without affecting operation (with the exception of manual reset versions)
- Any Ex d IIC approved cable entry device can be fitted in the M20 x 1,5 (1/2" NPT as an option) threaded entry, refer to the nameplate for identification of the maximum cable temperature
- Internal and external earthing connection
- The operator can be rotated 360° at 90° increments to select the most favourable position for cable entry

DIMENSIONS (mm), WEIGHT (kg)



prefix	weight
NA	4,8 kg
NB	4,8 kg

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