OPERATORS

for potentially explosive atmospheres
flameproof enclosure
II2G Ex d IIB+H2 Gb T6...T4, II2D Ex tb IIIC Db IP66/IP67
aluminium or stainless steel enclosure

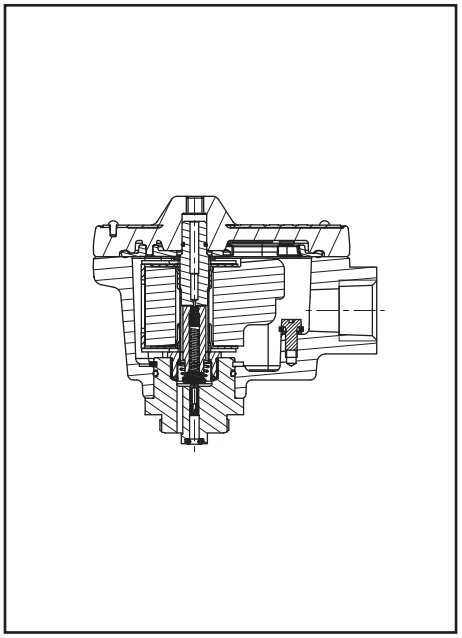
Series
LPKF
WSLPKF

FEATURES

- *Explosionproof operator for use in potentially explosive atmospheres according to Directive ATEX 2014/34/EU*
- *EC type examination certificate (LCIE 10 ATEX 3043X) and IECEx certificate (IECEx LCI 10.0010X) are in compliance with the International and European Standards IEC and EN: 60079-0, 60079-1 and 60079-31*
- *Easy electrical installation by means of a screw terminal coil*
- *Enclosure provided with a 1/2 NPT threaded entry hole for a broad range of cable entries*
- *Ingress protection degree IP67 - NEMA 4/4X*
- *A wide range of valves can be supplied with the operator*

CONSTRUCTION

Solenoid enclosure	LPKF	Aluminium, cataphorese black painting
	WSLPKF	Stainless steel (AISI 316L)
Bonnet	LPKF	Stainless steel
	WSLPKF	Stainless steel (AISI 316L)
Cover screws		Stainless steel
Core, core tube and plugnut		Stainless steel
Seals		VMQ
Upper disc		FPM
Lower- disc		NBR
Nameplate		Stainless steel
Coil connection		Embedded screw terminals



ELECTRICAL CHARACTERISTICS

Standard voltages
DC (=): 24V - 48V
AC (~): 24V - 48V - 115V - 230V / 50 Hz

SAFETY CODE

II2G Ex d IIB+H2 Gb T6...T4
II2D Ex tb IIIC Db T85°C...T135°C IP66/IP67

TEMPERATURE CLASSIFICATION TABLES

The minimum allowable ambient temperature is -40°C for the operator.
Select the requested "T" classification from the temperature classification table (AC or DC), respecting the maximum ambient temperature and cold (20°C) electrical holding power value.

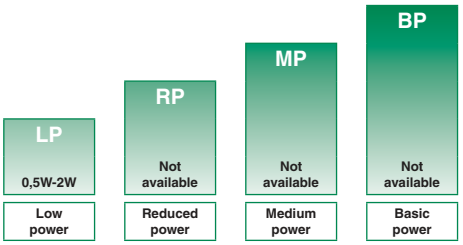
AC (~) Solenoids

power level (watt)	insulation class	maximum ambient temp. °C [5] "T" classification		
		T6	T5	T4
Low power (LP)				
-	-	-	-	-
2,4 [2] [4]	F	40	65	80

DC (=) Solenoids

power level (watt)	insulation class	maximum ambient temp. °C [5] "T" classification		
		T6	T5	T4
Low power (LP)				
0,5 [3]	F	60	-	-
2,1 [4]	F	40	-	80

[2] AC (~): rectified coil construction.
[3] 24 V DC value.
[4] Maximum cold wattage.
[5] For the layout of the control circuit, see the installation and maintenance instructions at: www.asconumatics.eu



POWER LEVELS - cold electrical holding values (watt)

80232GB-2016/R01

PREFIX TABLE

prefix							description	power level			
1	2	3	4	5	6	7		LP	RP	MP	BP
L	P	K	F				Flameproof- Aluminium (IEC/EN: 60079)	●	-	-	-
W	S	L	P	K	F		Flameproof- St. steel (IEC/EN: 60079)	●	-	-	-
						X	Other special constructions	-	-	-	-

● Available feature
- Not available

ORDERING EXAMPLES:

LPKF G 551B305 MO 24V
LPKF G 551B305 MO 230V
WSLPKF 8 551B305 24V
WSLPKF 8 551B305 230V

prefix
pipe thread
basic number
voltage
suffix

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: G551B305

STEP 2
Select voltage. Refer to standard voltages on page 1.
Example: 24V / DC

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: LPKF
60°C ambient
Low Power (LP) 0,5 W
II2G Ex d IIB+H2 Gb T6
II2D Ex tb IIIC Db IP67
T85°C

STEP 4
Final catalogue / ordering number.
Example:
LPKF 8551B305 24V / DC

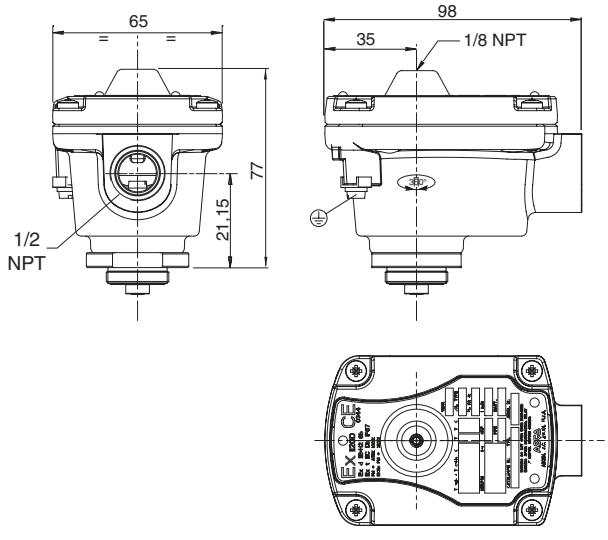
INSTALLATION

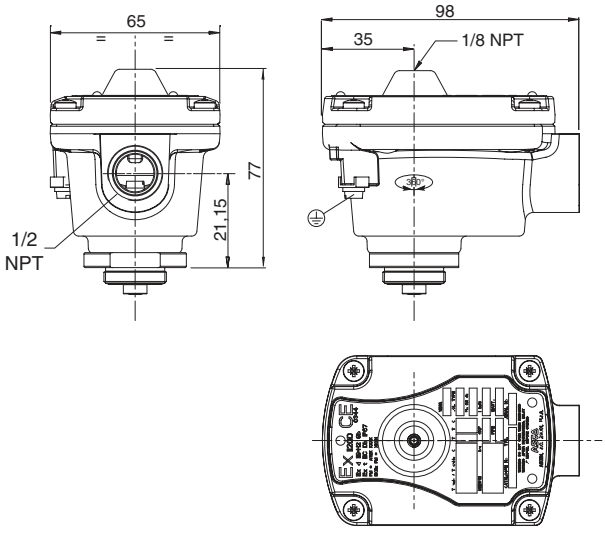
- Multi language installation/maintenance instructions are included with each valve
- The solenoid valves can be mounted in any position without affecting operation
- Internal and external earthing connection
- The solenoid can be rotated 360° to select the most favourable position for cable entry

DIMENSIONS (mm), WEIGHT (kg)

TYPE 01:
Prefix "LPKF" Solenoid
Aluminium, revêtement époxy
IEC and EN: 60079-1, 60079-31
II2G Ex d IIB+H2 Gb T6...T4 - II2D Ex tb IIIC Db IP66/IP67

TYPE 02:
Prefix "WSLPKF" Solenoid
Stainless steel, epoxy coated
IEC and EN: 60079-1, 60079-31
II2G Ex d IIB+H2 Gb T6...T4 - II2D Ex tb IIIC Db IP66/IP67





type	prefix	weight
01	LPKF	0,55
02	WSLPKF	1,16