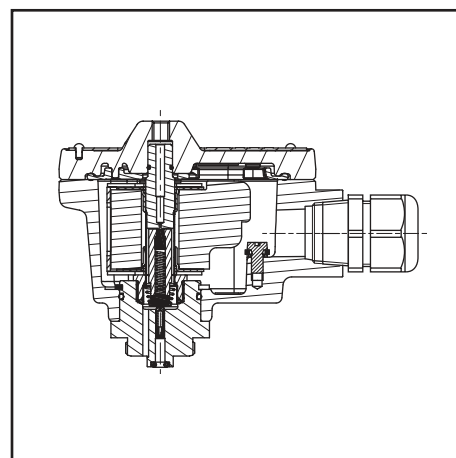


FEATURES

- Explosionproof operator for use in potentially explosive atmospheres according to Directive ATEX 2014/34/EU
- EC type examination certificate (LCIE 09 ATEX 3054 X) and IECEx certificate (IECEx LCI 09.0022X) are in compliance with the International and European Standards IEC and EN: 60079-0, 60079-11 and 60079-31
- Easy electrical installation by means of a screw terminal coil
- Enclosure provided with a cable gland for unarmoured cable with an o.d. of 6 to 12 mm
- Ingress protection degree IP67
- A wide range of valves can be supplied with the operator

CONSTRUCTION

Solenoid enclosure	LI	Aluminium, cataphoresis black painting
	WSLI	Stainless steel (AISI 316L)
Bonnet	LI	Stainless steel
	WSLI	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
Cable gland		Polyamide (PA), cable Ø 7-12 mm



ELECTRICAL CHARACTERISTICS

SAFETY CODE

LI ⁽¹⁾ / WSLI:

II 1G Ex ia IIC T6 Ga

II 2D Ex tb IIIC T85°C IP66/IP67 Db

⚠ ⁽¹⁾ For use in zone 0 locations, see the installation conditions given in the I&M instructions.

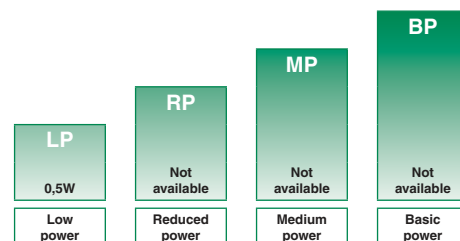
Coil insulation class

F

Standard voltages

DC (=) : 24V

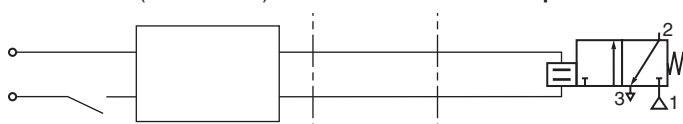
voltage (U _n) (max. ripple 10%)	power ratings (P _n)	typical functional ratings		R		operator ambient temperature range (TS)	type ⁽³⁾
	hot/cold =	I _(ON) min.	U _(ON) min.	20°C	max. T6		
(V)	(W)	(mA)	(V)	(Ω)	(Ω)	(°C) ⁽¹⁾	
Low power (LP)							
24	0,5	32	12	288	354	-40 to +60	01



POWER LEVELS - cold electrical holding values (watt)

safety code	power level (P _n)	safety parameters				
	= (W)	U _i (V) (DC)	I _i (mA)	P _i (W)	L _i (H)	C _i (μF)
All	0,5	32	500	1,5	0	0

Example of use with a Zener barrier installed in a non-hazardous zone:
safe area (RS interface) cable explosive area



TEMPERATURE CLASSIFICATION TABLES

DC (=) Solenoids

power level (watt)	insulation class	maximum ambient temp. °C “T” classification
		T6 85°C
Low power (LP)		
0.5	F	60

The minimum allowable ambient temperature is -40°C for the operator. **-35°C max. with polyamide cable gland.**

Select the requested "T" classification from the temperature classification table (DC), respecting the maximum ambient temperature and cold (20°C) electrical holding power value.

PREFIX TABLE

prefix							description	power level			
1	2	3	4	5	6	7		LP	RP	MP	BP
L	I						I.S. with aluminium IP67 enclosure (EN/IEC 60079-11, -31)	○	-	-	-
W	S	L	I				I.S. with 316L SS IP67 enclosure (EN/IEC 60079-11, -31)	○	-	-	-
						X	Other special constructions	-	-	-	-

- Available feature in DC only
 - Not available

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: 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: LI

60°C ambient

Low Power (LP) 0,5 W

II 1G Ex ia IIC T6 Ga

II 2D Ex tb IIIC T85°C IP67 Db

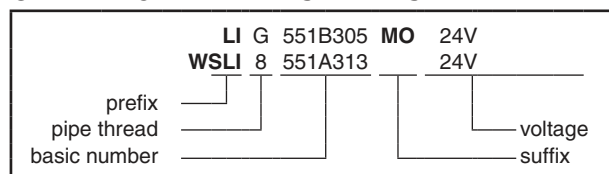
STEP 4

Final catalogue / ordering number.

Example:

LI G551B305 24V / DC

ORDERING EXAMPLES VALVES:



ADDITIONAL OPTIONS

- Cable glands (Nickel-plated brass): unarmoured cable, catalogue number **88200011** / armoured cable, catalogue number **88200014**

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
- Electrical connection between solenoid valve and barrier/interface with cable type A or B according to EN 50039
- The solenoid can be rotated 360° to select the most favourable position for cable entry

RECOMMENDED INTERFACES

Located in safe areas, these interfaces allow to feed the intrinsically safe solenoid valves located in explosive areas.

This equipment must be ordered from its respective manufacturers, specifying that they are intended to feed intrinsically safe solenoid operators:

LI / WSLI: II 1G Ex ia IIC T6 Ga, II 2D Ex tb IIIC T85°C IP66/IP67 Db

INTERFACES		
manufacturer	module type	1G/2G T6 IIC
ABB	DO910S	x
Bartec	07-7331-2105/1000	x
	07-7331-2301/1100	x
GEORGIN	BXNE701002	x
	BXNE70100E	x
G.M. International	D1040Q-2	x
	D1042Q-2	x
	D1043Q-2	x
	D1048S	x
MTL	MTL 722+	x
	MTL 728+	x
	MTL 728P+	x
Pepperl + Fuchs	KFD2-SL2-Ex1	x
	KFD2-SL2-Ex1.B	x
	KFD2-SL2-Ex1.LK	x
	KFD2-SL2-Ex2	x
	KFD2-SL2-Ex2.B	x
	KCD0-SD-Ex1.1245	x
	KFD0-SD2-Ex2.1245	x
	LB-2103	x
PHOENIX CONTACT	MACX MCR-EX-SD-24-48-LP(-SP)	x
	MACX MCR-EX-SD-21-60-LP(-SP)	x
	PI-EX-SD-24-48	x
	PI-EX-SD-21-60	x
Stahl	9475/12-04-11	x
	9475/12-04-21	x
	9475/12-04-31	x
	9475/32-04-12	x
	9475/32-04-22	x
	9475/32-04-72	x
	9175/10-14-11	x
	9175/10-16-11	x
	9175/10-16-00	x
	9175/20-14-11	x
	9001/01-280-100-101	x
	9002/13-280-110-001	x

INTERFACES		
manufacturer	module type	1G/2G T6 IIC
Turck	MK72-S09-Ex0/24VDC	x
	MC72-41Ex-T/24VDC	x
	MC72-44Ex-T	x
Siemens	6ES7132-7RD11-0AB0 2 ways	x
	6ES7132-7RD21-0AB0	x
	6ES7132-7GD10-0AB0 2 ways	x
	6ES7132-7GD20-0AB0	x

ZENER BARRIERS		
Bartec	07-7331-2301/1001	x
CEAG	SB-3722	x
	SB-2420	x
	SB-3729	x
	SB-3728	x
GEORGIN	SB-0728	x
	BZG728+	x
	BZG2728+	x
	BZG728P+	x
MTL	MTL 722	x
	MTL 728	x
Pepperl + Fuchs	MTL 728P	x
	MTL 779	x
	Z728	x
Stahl	Z728.H	x
	Z728.CL	x
	9001/01-199-150-101	x
	9001/01-280-085-101	x
	9001/01-280-100-101	x
	9001/01-280-110-101	x

In accordance with the zone classification and the national legislation of each country, apply the certification procedures for the connection of IS-rated products with associated equipment. All information subject to change without notice. All responsibility for the use of products from other suppliers and the possible modifications of their characteristics is disclaimed.

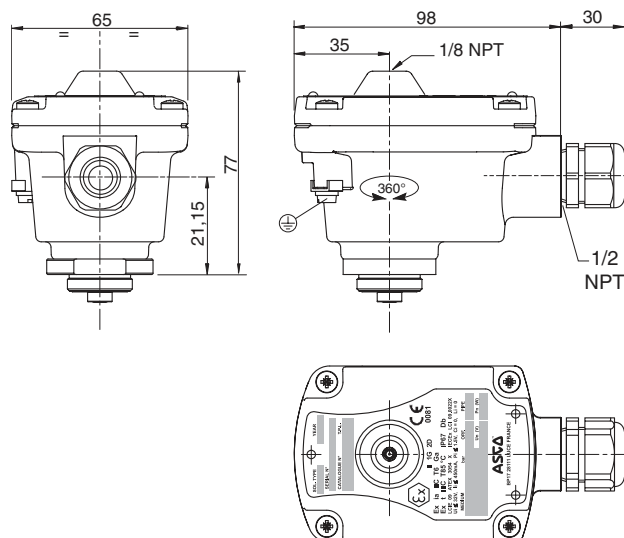
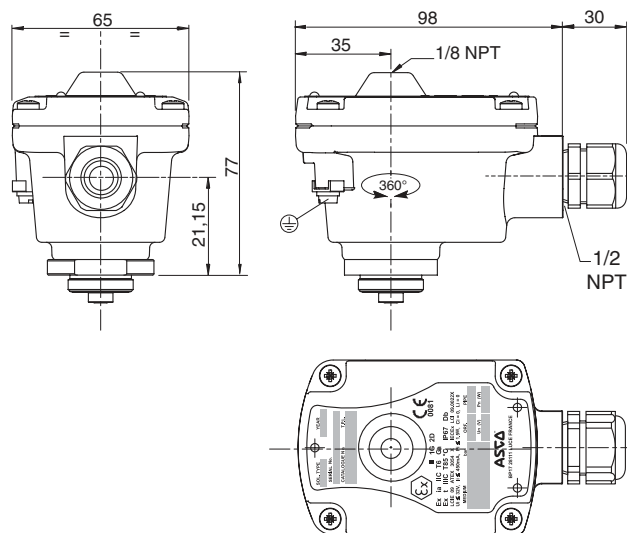
DIMENSIONS (mm), WEIGHT (kg)



TYPE LI:
Low power
 Prefix "LI" Solenoid
 Aluminium, cataphoresis black painting
 IEC and EN: 60079-11, 60079-31
 II 1G Ex ia IIC T6 Ga, II 2D Ex tb IIIC T85°C IP66/IP67 Db



TYPE WSLI:
Low power
 Prefix "WSLI" Solenoid
 Stainless steel
 IEC and EN: 60079-11, 60079-31
 II 1G Ex ia IIC T6 Ga, II 2D Ex tb IIIC T85°C IP66/IP67 Db



type	prefix	power level	weight
M6	LI	low power	0,56
M6	WSLI	low power	1,17