

EXPLOSION PROOF ELECTRICAL PARTS

COIL GROUP

7.0

INTRINSICALLY SAFE ELECTRICAL PARTS "ia"



ZONE 0/20

488650.01 & 490885 "NEMA" ELECTRICAL PARTS "IS" 50 mm

This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia or ib IIC T6 is required.

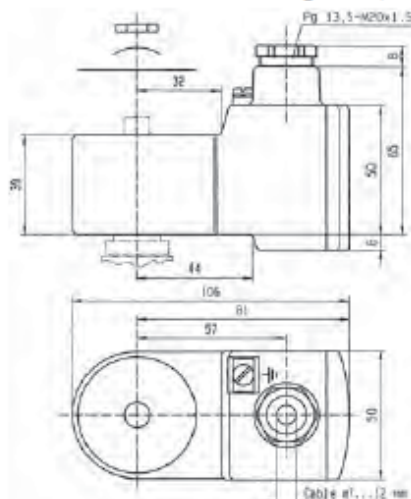
Benefits: Rotatable 360° housing, polyamid with fibreglass housing and cover. Coil, electronic circuits and other elements required for intrinsic safety are completely encapsulated in the housing with epoxy material for shock and corrosion protection.

Small size for ease of mounting in confined space.



Reference		488650.01	490885
Certificate		LCIE 02 ATEX 6024 X	LCIE / FM / CSA
Coil Group		7.0	
Type of protection	Gas	II 1 G - Ex ia IIC - T6	CL I, Div.I, Gr. A, B, C, D
	Dust	II 1 D - Ex ta IIIC - T80°C	CL II, Div.I, Gr. E, F, G
Degree of protection		IP66	NEMA 4 - 4X
Ambiant temperature		- 40°C to +65°C The operating temperature of the valve/coil can be limited by that of the valve.	60°C
Electrical connection		Cable entry through a cable gland M20 x1.5. Screw terminals for leads 3 x 1.5 mm² max. Additional earth connection possible with external screw terminal	
Maximum supply voltage		28 VDC (N7) - 110 mA	30 VDC(N7) - 100 mA
Power		The minimum operating voltage at maximum 60°C is 11.5 VDC.	
		300 mW	
		3 W	
		Dependent on the applied voltage, type of barrier IS and the resistance of the connected cable	
Coil resistance at 20°C		295 Ω	
Impedance		345 Ω	
Apparent inductance		0 mH	
Apparent capacitance		0 µF	
Weight		500 g	

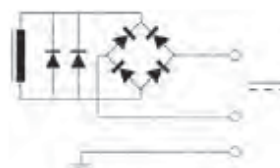
To Order a Coil choose Coil Ref + Voltage Code, example: 490885 for 30VDC = 490885N7



Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a **minimum operating current of 29 mA** through the coil.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.