

COIL GROUP

7.0

INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"



ZONE 0/20

ELECTRICAL PARTS 32 mm "IS"

These coils 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: Fully encapsulated assembly comprising a coil, metal armature, three diodes circuit and DIN plug connection.

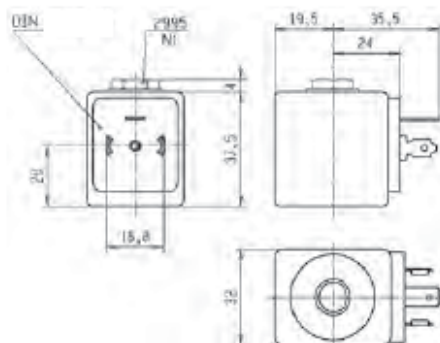
The encapsulation provides an effective compact housing offering full protection against dust, oil, water, etc.

Small size for ease of mounting in confined space.



Reference (without plug) (with plug)	483580.01 or DZ12 483960.01 or DZ13	
Certificate	LCIE 02 ATEX 6065 X - IECEx LCI 07.0025 X	
Coil Group	7.0	
Type of protection	Gas II 1 G - Ex ta IIC - T6 Dust II 1 D - Ex ta IIC - T80°C	
Degree of protection	IP65 with plug	
Ambient temperature	- 40°C à + 55°C The operating temperature of the valve/coil can be limited by that of the valve.	
Class of insulation	F 155°C	
Electrical connection	The coil is connected with a 2P + E plug according to EN 175301-803 type A Contact 1 is marked as the positive pole ⊕.	
Maximum supply voltage	28 VDC (N7) - 110 mA The minimum operating voltage at maximum 60°C is 14 VDC.	
Power	DC Minimum	500 mW
	Maximum	3 W
	Depending on applied voltage, IS barrier type and resistance of connected cable	
Coil resistance at 20°C	340 Ω	
Impedance	340 Ω	
Apparent inductance	0 mH	
Apparent capacitance	0 µF	
Weight	160 g (with plug)	

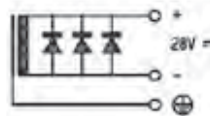
To Order a Coil choose Coil Ref + Voltage Code, example: 483580 for 28VDC = 483580N7



Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a **minimum operating current of 35 mA** through the coil.

The minimal holding current is 20 mA.



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