



Ex ELECTRICAL PARTS FOR SOLENOID VALVES

37 mm Ex dm Upgraded Electrical Parts and Expanded
Global Certifications



37mm Ex dm ELECTRICAL PARTS

Upgraded Electrical Parts and Expanded Global Certifications.

Parker 37 mm Ex d m electrical parts have been upgraded with new ATEX and IECEx Type Examination Certificates according to the latest explosion protection (Ex) standards (Table 1).

In addition to these global certifications, Parker has updated Ex approvals in Korea (KC) and China (CCC), while also securing a new certification for Japan (JPEX) for selected models. These advancements enable industries worldwide to benefit from a safer, globally compliant solution for explosion-proof solenoid valve applications.

The upgraded 37 mm Ex dm Electrical parts are ideally suited for power generation, oil and gas, pharmaceutical manufacturing, food and beverage processing, and chemical production. Designed to control solenoid valves in Zone 1/21 hazardous areas, these electrical parts ensure compliance with Ex dm requirements, preventing the risk of explosion in areas where flammable gases, vapors, or dust are present.

Equipped with a 360-degree rotatable, fiberglass-reinforced plastic housing, a feature unique to Parker, these electrical parts allow for flexible installation, particularly in confined spaces. The coil and protection devices are fully encapsulated in epoxy resin, ensuring shock resistance and corrosion protection. These electrical parts are compatible with all Parker ATEX solenoid valves within the specified Coil Group.

A key advantage of these electrical parts is their modular design,



ATEX Standards	IECEx Standards
EN IEC 60079-0:2018	IEC 60079-0:2017
EN 60079-1:2014	IEC 60079-1:2014
EN 60079-18:2015/A1:2017	IEC 60079-18:2017
EN 60079-31:2014	IEC 60079-31:2013

Table 1 - Latest ATEX and IECEx Certification Standards for Parker's 37mm Ex d m Coils.

which allows different coil options to be mounted on the same valve while enabling multiple valve types to share a single coil design. This unique feature reduces inventory complexity, optimizes total cost of ownership, and improves overall operational efficiency.



“ The latest upgrade reflects our commitment to staying ahead of evolving safety standards while delivering the highest quality products to our customers. Manufactured in Italy, these coils provide a flexible and globally certified solution, ensuring reliability and compliance even in the most demanding applications.”

Fabio Colombo, Product Manager at Parker.

COIL GROUPS

6.0

FLAME PROOF ENCAPSULATED ELECTRICAL PARTS

"db mb"



495900 - LOW POWER ELECTRICAL PARTS 37 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 db mb IIC T4 to T6 Gb is required.

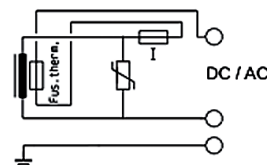
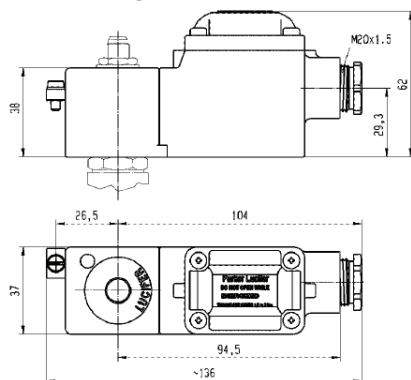
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland certified together with the equipment. Small size for ease of mounting in confined space.



Reference		495900 (VAC)	495900 (VDC)		
ATEX/IECEx Certificates		IMQ 22 ATEX 020 X - IECEx IMQ 22.0002 X			
KCs Certificates		KTL 24-KA4B0-0457X / 0458X	KTL 24-KA4B0-0459X / 0460X		
CCC Certificate		CCC 2021322307004013			
Coil Group		6.0			
Type of protection	II 2 G	Ex db mb IIC T4 / T5 / T6 Gb	Ex db mb IIC T4 / T5 / T6 Gb		
	II 2 D	Ex tb IIIC - 130°C / 95°C / 80°C Db	Ex tb IIIC - T130°C / 95°C / 80°C Db		
Degree of protection		IP66/IP67 according to IEC/EN 60529 Standards			
Ex d enclosure		The «Ex d» enclosure can withstand a maximum pressure of 58 bar			
Environmental temperature		-40°C to +80°C / 60°C / 40°C	-40°C to +80°C / 65°C / 55°C		
Insulation Class		H (180°C)			
Electrical connection		Electric connection is done in the connection box on easily accessible connector terminal. The introduction of the cable (Ø min 5 mm, Ø max 11 mm, section max. 2.5 mm ² , 2P+E) in the connection box passes by the built-in M20x1.5 cable gland			
Elect. Power	DC	Pn (hot)	-	2 W	
		P (cold) 20°C	-	2.5 W	
	AC	Pn (holding)	2.5 W	-	
		Attraction cold	3 W	-	
Voltages "Un"		VAC/Hz	Code	VDC	Code
Voltage tolerance: +/- 10% Un		24/50	A2	12	C1
		48/50	A4	24	C2
		115/50	E5	48	C4
		230/50	F4	110	C5
		115/60	K8		
		240/60	B8		

To Order a Coil: Coil Ref + Voltage Code 495900 24VDC = 495900C2



COIL GROUPS

2.0/2.1

FLAME PROOF ENCAPSULATED ELECTRICAL PARTS "db mb"



495905 - ELECTRICAL PARTS 37 mm

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 db mb IIC T4 Gb is required.

Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

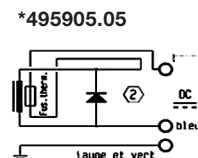
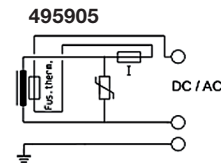
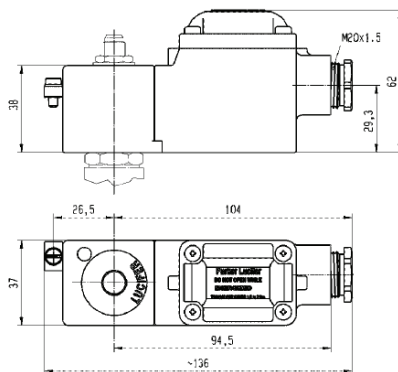
The plastic housing is delivered with M20 x 1.5 cable gland certified together with the equipment. Small size for ease of mounting in confined space.



Reference		495905 (VAC)	495905 (VDC) & 495905.05**		
ATEX/IECEx Certificates		IMQ 22 ATEX 020 X - IECEx IMQ 22.0002 X			
KCs Certificates		KTL 24-KA4B0-0457X / 0458X	KTL 24-KA4B0-0459X / 0460X		
CCC Certificate		CCC 2021322307004013			
JPEX Certificate*		DEK24, 0036X			
Coil Group		2.0 / 2.1			
Type of protection	II 2 G	Ex db mb IIC T4 Gb			
	II 2 D	Ex tb IIIC - 130°C Db			
Degree of protection		IP66/IP67 according to IEC/EN 60529 Standards			
Ex d enclosure		The «Ex d» enclosure can withstand a maximum pressure of 58 bar			
Environmental temperature		-40°C to +80°C The thermal class depends on the environmental temperature as shown above The application is limited also by the temperature range of the valve			
Insulation Class		H (180°C)			
Electrical connection		Electric connection is done in the connection box on easily accessible connector terminal. The introduction of the cable (Ø min 5 mm, Ø max 11 mm, section max. 2.5 mm ² , 2P+E) in the connection box passes by the built-in M20x1.5 cable gland			
Elect. Power	DC	Pn (hot)	8 W		
		P (cold) 20°C	9 W		
	AC	Pn (holding)	8 W		
		Attraction cold	9 W		
Voltages "Un"		VAC/Hz	Code	VDC	Code
Voltage tolerance: +/- 10% Un		24/50	A2	24	C2
		48/50	A4	48	C4
		115/50	E5	110	C5
		230/50	F4		
		115/60	K8		
		240/60	B8		

To Order a Coil choose Coil Ref + Voltage Code, example: 495905 for 24VDC = 495905C2

* JPEX for 495905C2, C4, C5 only
** 495905.05 available only in C4



COIL GROUP

10.2/10.1

FLAME PROOF ENCAPSULATED ELECTRICAL PARTS "db mb"

IECEX
certified

496555 & 496560 - ELECTRICAL PARTS 37 mm

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 db mb IIC T4 to T6 Gb is required.

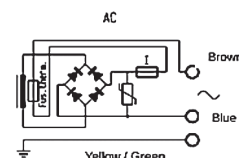
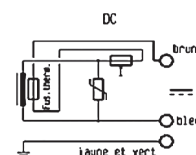
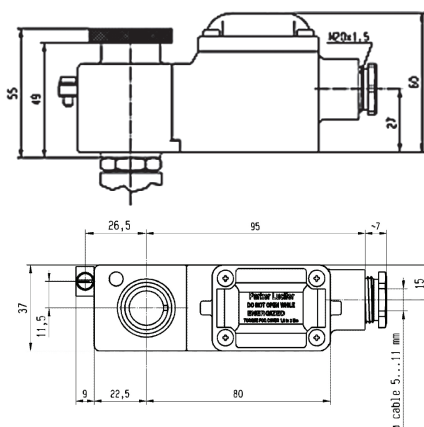
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with M20 x 1.5 cable gland certified together for the equipment. Small size for ease of mounting in confined space.



Reference		496555				496560			
ATEX/IECEX Certificates		IMQ 22 ATEX 020 X – IECEX IMQ 22.0002 X							
KCs Certificates		KTL 24-KA4B0-0465X / 0466X / 0467X / 0468X							
CCC Certificate		CCC 2021322307004013							
Coil Group		10.2				10.1			
Type of protection	II 2 G	Ex db mb IIC T4 / T5 / T6 Gb				Ex db mb IIC T4 Gb			
	II 2 D	Ex tb IIIC - T130°C / 95°C / 80°C Db				Ex tb IIIC - T130°C Db			
Degree of protection		IP66/IP67 according to IEC/EN 60529 Standards							
Ex d enclosure		The «Ex d» enclosure can withstand a maximum pressure of 58 bar							
Environmental temperature		-40°C to +65 / 50 / 35°C				-40°C to +65°C			
Insulation Class		H (180°C)							
Electrical connection		Electric connection is done in the connection box on easily accessible connector terminal. The introduction of the cable (Ø min 5 mm, Ø max 11 mm, section max. 2.5 mm ² , 2P+E) in the connection box passes by the built-in M20x1.5 cable gland							
Elect. Power	DC	Pn (hot)	-	6 W	-	8 W	-	8 W	-
		P (cold) 20°C	-	7.5 W	-	10.5 W	-	10.5 W	-
	AC	Pn (holding)	6 W	-	8 W	-	-	-	-
		Attraction cold	7.5 W	-	10.5 W	-	-	-	-
Voltages "Un"		VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		230/50-60	P9	24	C2	230/50-60	P9	24	C2
		110/50-60	P2	48	C4	110/50-60	P2	48	C4
		24/50-60	P0	110	C5	24/50-60	P0	110	C5
		48/50-60	S4			48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496555 for 24VDC = 496555C2



COIL GROUP

10.2/10.1

FLAME PROOF ENCAPSULATED ELECTRICAL PARTS "db mb"

IECEx
certified

496700 & 496800 - ELECTRICAL PARTS 37 mm

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 db mb IIC T4 to T6 Gb is required.

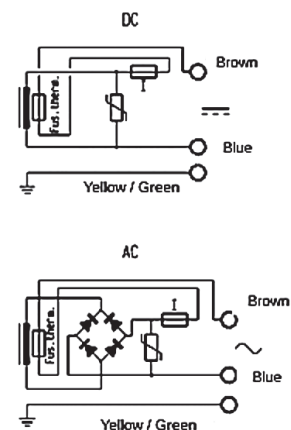
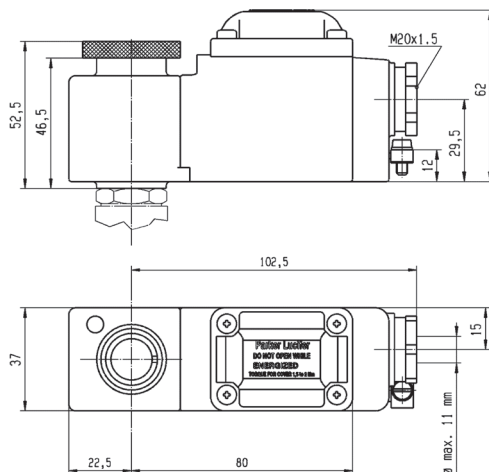
Benefits: Rotatable 360° fibreglass-reinforced plastic housing (class H). Solenoid coil, rectifier (silicium diodes), fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection.

The plastic housing is delivered with 1/2" NPT or M20 x 1.5 threaded hole for wide range of cable glands. Small size for ease of mounting in confined space.



Reference		496700 or 496700.02 (NPT)			496800 or 496800.02 (NPT)				
ATEX/IECEx Certificates		IMQ 22 ATEX 020 X – IECEx IMQ 22.0002 X							
KCs Certificates		KTL 24-KA4B0-0461X / 0462X / 0463X / 0464X							
CCC Certificate		CCC 2021322307004013							
Coil Group		10.2			10.1				
Type of protection	II 2 G	Ex db mb IIC T4 / T5 / T6 Gb			Ex db mb IIC T4 Gb				
	II 2 D	Ex tb IIIC - T130 / 95 / 80°C Db			Ex tb IIIC - T130°C Db				
Degree of protection		IP66/IP67 according to IEC/EN 60529 Standards							
Environmental temperature		-40°C to +35°C / +50°C / +65°C			-40°C to +65°C				
Insulation Class		H (180°C)							
Electrical connection		Electric connection is done in the connection box on easily accessible connector terminals. The introduction of the cable (Ø min 5 mm, Ø max 11 mm, section max. 2.5 mm ² , 2P+E) in the connection box passes by the M20x1.5 (or 1/2" NPT for .02 models) cable gland (not included).							
Elect. Power	DC	Pn (hot)	-	6 W	-	8 W			
		P (cold) 20°C	-	7.5 W	-	10.5 W			
	AC	Pn (holding)	6 W	-	8 W	-			
		Attraction cold	7.5 W	-	10.5 W	-			
Voltages "Un"		VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un		230/50-60	P9	24	C2	230/50-60	P9	24	C2
		110/50-60	P2	48	C4	110/50-60	P2	48	C4
		24/50-60	P0	110	C5	24/50-60	P0	110	C5
		48/50-60	S4			48/50-60	S4		

To Order a Coil choose Coil Ref + Voltage Code, example: 496700 for 24VDC = 496700C2





Parker Hannifin Corporation
Parker Hannifin Ltd
Fluid & Climate Controls Europe
Refrigeration and Air Conditioning Europe
Via Enrico Fermi, 4
Gessate - 20060
Milano - Italy
www.parker.com

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