

FLAME PROOF ENCAPSULATED
ELECTRICAL PARTS
"db mb"



IECEx
certified



JPEEx
certified*

ZONE 1/21

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.

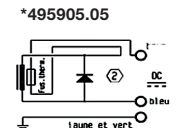
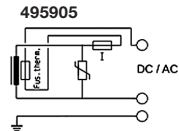
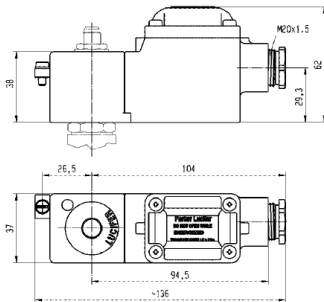


Reference		495905 (VAC)		495905 (VDC) & 495905.05**	
ATEX/IECEx Certificates		IMQ 22 ATEX 020 X - IECEx IMQ 22.0002 X			
KCs Certificates		KTL 24-KA4B0-0457X / 0458X		KTL 24-KA4B0-0459X / 0460X	
CCC Certificate		CCC 20213223070004013			
JPEx Certificate*		DEK24, 0036X			
Coil Group		2.0 / 2.1			
Type 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 mm², 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

*JPEEx for 495905C2, C4, C5 only

** 495905.05 available only in C4



INDEX BY COIL GROUP

Coil Group	Coil Reference	Designation	Power DC Pn (W)	Power AC Pn (W)	Ambient Temperature	UL	Degree of Protection	ATEX or NEMA 4X Protection (Gas)	Page
1.1	481180	COIL FOR DIN PLUG CONNECTION, 22 MM	5.0	4.0	-40°C TO +50°C	-	IP65	-	425
1.1	483590	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY, 22 MM	-	3.0	-40°C TO +50°C	-	IP65	-	427
1.1	488143	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY, 22 MM	-	2.5	-40°C TO +50°C	-	IP65	-	428
1.1	495865	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", LOW POWER, 22 MM	2.5	2.0	-40°C TO +50°C	-	IP65	II 3 G EX nA c nC c IIC T5	444
1.1	482605	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", 32 MM	5.0	4.0	-40°C TO +65°C / +40°C	-	IP65	II 2 G EX MB IIC T4/T5	453
1.1	482606	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", LOW POWER, 32 MM	2.5	2.0	-40°C TO +65°C / +35°C	-	IP65	II 2 G EX MB IIC T4/T5	453
1.1	482606.160	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", LOW POWER, 32 MM	2.5	2.0	-40°C TO +65°C / +35°C	-	IP65	II 2 G EX MB IIC T4/T5	453
1.1	488980	COIL FOR DIN PLUG CONNECTION, LOW POWER, 22 MM	2.5	2.0	-40°C TO +50°C	-	IP65	-	425
1.1	492912	COIL FOR DIN PLUG CONNECTION, 22 MM	4.0	3.0	-40°C TO +50°C	-	IP65	-	426
1.2	496482	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY COIL, 22 MM	3.0	3.0	-40°C TO +50°C	-	IP65	-	430
1.2	496637	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", DOUBLE FREQUENCY, 22 MM	3.0	3.0	-20°C TO +50°C	-	IP65	II 3 D EX TC IIIC T 95°C	445
1.2	496131	COIL FOR DIN PLUG CONNECTION, DOUBLE FREQUENCY, 22 MM	3.0	3.0	-40°C TO +50°C	-	IP65	-	429
2.0/2.1	481865	COILS FOR DIN PLUG CONNECTION 32 MM	9.0	8.0	-40°C TO +50°C	-	IP65	-	418
2.0/2.1	483510	COILS FOR DIN PLUG CONNECTION 32 MM	-	9.0	-40°C TO +50°C	-	IP65	-	418
2.0/2.1	492453	COILS FOR DIN PLUG CONNECTION, HIGH TEMPERATURE, 32 MM	9.0	8.0	-40°C TO +50°C	-	IP65	-	419
2.0/2.1	491514	COILS FOR DIN PLUG CONNECTION, 32 MM, UL	-	11.0	-40°C TO +50°C	-	IP65	-	422
2.0/2.1	496081	COIL WITH FLYING LEADS, IP 67, 32 MM	9.0	9.0	-40°C TO +50°C	-	IP67	-	432
2.0/2.1	481000	COIL WITH SCREW TERMINAL, 40 MM	8.0	8.0	-40°C TO +50°C	-	IP 44 TO 67	-	434
2.0/2.1	483520	COIL WITH SCREW TERMINAL, DOUBLE FREQUENCY, 40 MM	-	9.0	-40°C TO +50°C	-	IP 44 TO 67	-	434
2.0/2.1	495870	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", 32 MM	9.0	8.0	-40°C TO +50°C	-	IP65	II 3 G EX NAC NCC IIC T3/T4	446
2.0/2.1	496110	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", 32 MM	-	9.0	-40°C TO +50°C	-	IP65	II 3 G EX NAC NCC IIC T3/T4	446
2.0/2.1	492070	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", WITH WATER PROOF METAL HOUSING, 50MM (WITH 3 M CABLE LENGTH)	8.0	9.0	-40°C TO +65°C	-	IP67	II 2 G EX MB IIC T4/T5	454
2.0/2.1	492070.60	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", WITH WATER PROOF METAL HOUSING, 50MM (WITH 6 M CABLE LENGTH)	8.0	9.0	-40°C TO +65°C	-	IP67	II 2 G EX MB IIC T4/T5	454
2.0/2.1	HZ10	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", DOUBLE FREQUENCY	8.0	8.0	-40°C TO +85°C	-	IP65	II 2 G EX MB IIC T3/T4/T5	455
2.0/2.1	HZ11	EXPLOSION PROOF ENCAPSULATED ELECTRICAL PART "MB", DOUBLE FREQUENCY	14.0	14.0	-40°C TO +85°C	-	IP65	II 2 G EX MB IIC T3/T4/T5	456
2.0/2.1	495905	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	8.0	8.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4	458
2.0/2.1	495905.05*	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", 37 MM	8.0	8.0	-40°C TO +65°C	-	IP67	II 2 G EX DB MB IIC T4	458
2.0/2.1	493640	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", DOUBLE FREQUENCY	8.0	8.0	-40°C TO +75°C	-	IP65	II 2 G EX DB MB IIC T4/T5	461
2.0/2.1	493640.60*	FLAME PROOF ENCAPSULATED ELECTRICAL PART "DB MB", DOUBLE FREQUENCY	8.0	8.0	-40°C TO +75°C	-	IP65	II 2 G EX DB MB IIC T4/T5	461
2.0/2.1	483371	EXPLOSION PROOF INCREASED SAFETY ELECTRICAL PART "EB", 50 MM	8.0	8.0	-40°C TO +65°C	-	IP67	II 2 G EX EB IIC T4	462
2.0/2.1	494040	EXPLOSION PROOF INCREASED SAFETY ELECTRICAL PART "EB", 50 MM	8.0	8.0	-40°C TO +90°C	-	IP67	II 2 G EX EB IIC T3/T4	462
2.0/2.1	492190	EXPLOSION PROOF INCREASED SAFETY AND ENCAPSULATED ELECTRICAL PART "EB", 50 MM	9.0	11.0	-40°C TO +75°C	-	IP66	II 2 G EX EB MB IIC T3/T4	465
2.0/2.1	488553	COIL WITH SCREW TERMINAL, DOUBLE FREQUENCY, H CLASS, 40 MM	-	9.0	-40°C TO +50°C	-	IP 44 TO 67	-	439
2.0/2.2	492425	COILS FOR DIN PLUG CONNECTION, HIGH TEMPERATURE, 32 MM	14.0	14.0	-40°C TO +50°C	-	IP65	-	419
2.0/2.2	481044	COIL WITH SCREW TERMINAL HIGH POWER, 40 MM	-	14.0	-40°C TO +50°C	-	IP 44 TO 67	-	435
2.0/2.2	486265	COIL WITH SCREW TERMINAL, HIGH TEMPERATURE-HIGH POWER, 40 MM	14.0	14.0	-40°C TO +50°C	-	IP 44 TO 67	-	436
2.0/2.2	495880	EXPLOSION PROOF ELECTRICAL PART "NAC NCC", 32 MM	14.0	14.0	-40°C TO +50°C	-	IP65	II 3 G EX NAC NCC IIC T3	449
2.0/2.2	496155	EXPLOSION PROOF INCREASED SAFETY ELECTRICAL PART "NAC NCC", 50 MM	14.0	14.0	-40°C TO +65°C	-	IP67	II 3 G EX NAC NCC IIC T3	451
2.2	483816	COIL FOR DIN PLUG CONNECTION FOR JET VALVES, 32 MM	14.0	14.0	-40°C TO +50°C	-	IP65	-	424