

K Series solenoid valves

For potable water use



ENGINEERING YOUR SUCCESS.

DYSTRYBUTOR PARKER PREMIUM

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K Series solenoid valves

K Series 2/2 direct and indirect acting solenoid valves are the best solution anywhere a perfect control of drinkable water is required.

This product line provides high flow rate, fast response time and superior reliability along with a robust and modern design. In addition, the pilot operated version is extremely easy to maintain thanks to the lateral diaphragm design enabling quick access to the spare components.

K Series can be associated with the most of our FCSE coil ranges, including ATEX, and IP67 electrical parts.

Applications

This range Series can be used to control water, hot water, and steam in a wide range of applications for plumbing, domestic, water handling, water treatment and preparation.

Benefits

- High performing broad range including direct and indirect acting versions.
- KTW-W270 tested and certified EPDM seals for superior water compatibility.
- The seals within this product are made of WRAS Approved Material under BS6920 (WRAS Approval number 1906540)
- PZH certified product, NIPH-NIH Attestation/Certification:B.BK.60110.0995.2022 (08.08.2022)
- Modular concept: a wide range of electrical parts increase the versatility of this product.
- Proven reliability of the stainless steel operator.
- Lateral diaphragm design provides with improved maintenance (pilot operated version only).

Material Specifications

Valve body:	CW617N UNI EN 12165:2016 Forged Brass
Enclosing tube:	AISI 304 Stainless steel
Plunger:	AISI 430F Stainless steel
Spring:	AISI 302 Stainless steel
Seals:	KTW-W270 tested and certified - WRAS approved material (approval number 1906540)
Shading ring:	Copper

Installation

Valves can be mounted in any position. It is however recommended to install them with the coil in a vertical position above the body.

Media

These valves have been developed to achieve the best performances for water and steam.

EPDM can be used for superheated water and steam up to 140°C.

K Series

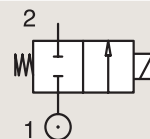
Direct acting range



BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow Factor			MOPD(Bar)			Fluid temperature (°C)		Seal	Ambient Temperature (°C)		Valve ref	Housing	Coil ref	Power		Coil Group	Dwg. No.
		Kv l/min	KV m³/h	Qn l/ min	min	Max AC	Max DC	Min °C	Max °C		Min	Max				AC	DC		
BSP	mm																		
1/4"	3	4,5	0,27	320	0	10	7	0	85	EPDM*	-10	50	121K0313	2995.13	481865	8	9	2	3510
3/8"	6	12	0,72	1100	0	5	1,1	0	85	EPDM*	-10	50	121K3313	2995.13	481865	8	9	2	3551
1/2"	11	36	2,16	2500	0	0,7	0,3	0	85	EPDM*	-10	50	121K4513	2995.13	481865	8	9	2	3427
	11	36	2,16	2500	0	1,5	0,5	0	85	EPDM*	-10	50	121K4513	2995.13	492425	14	14	2	3427

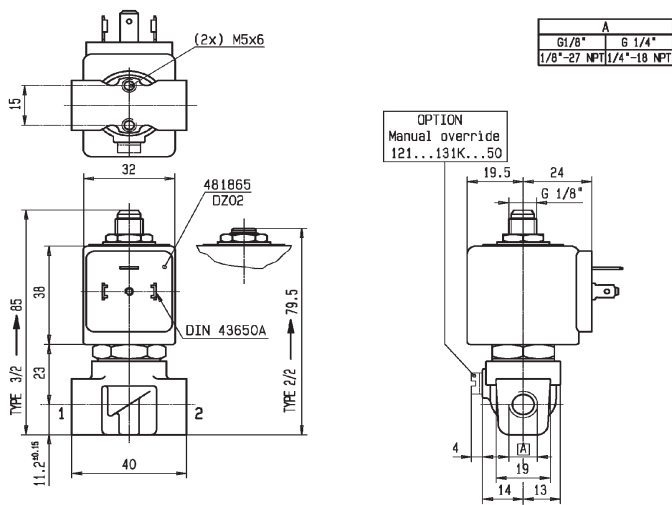
Notes:

PZH certified valves: NIPH-NIH Attestation/Certification B.BK.60110.0995.2022 (08.08.2022)

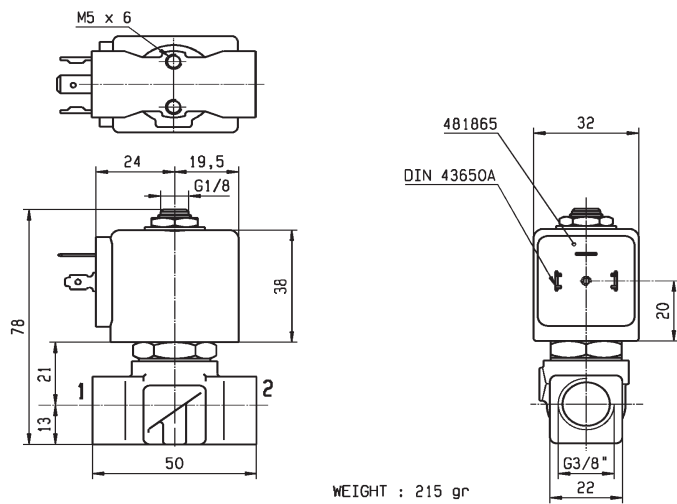
Metallic materials: compliant to "UBA Evaluation Criteria" – Product Group C-D

*EPDM compound: compliant to "UBA KTW-BWGL Guideline for Elastomers" – KTW/W270 tested and certified

*EPDM compound: WRAS Approved Material under BS6920 (WRAS Approval Number: 1906540)

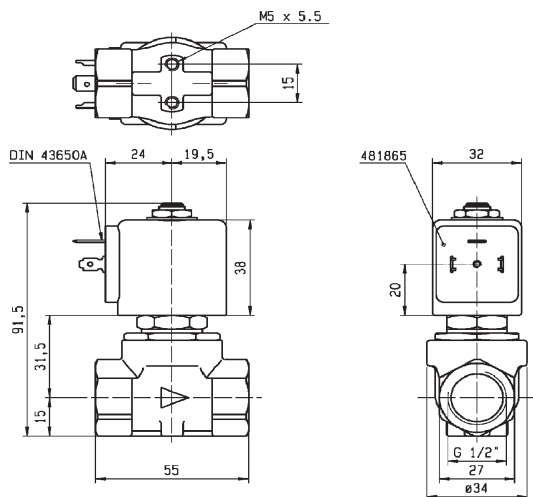


Drawing 3510

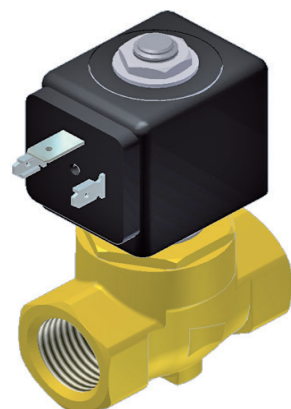


WEIGHT : 215 gr

Drawing 3551



Drawing 3427



K Series

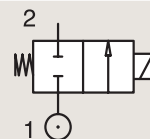
Indirect acting range



BRASS

PIPE MOUNTING

NORMALLY CLOSED



Port size	Orifice Ø	Flow Factor			MOPD(Bar)			Fluid temperature (°C)		Seal	Ambient Temperature (°C)		Valve ref	Housing	Coil Group	Pover		Coil Ref	Dwg. No.
		Kv l/min	KV m³/h	Qn l/min	min	Max AC	Max DC	Min	Max		Min	Max				AC	DC		
BSP	mm							°C	°C										
1/4"	12	32	1,92	2150	0,3	10	10	0	85	EPDM*	-10	50	321K4113	2995.13	481865	8	9	2	7094
3/8"	12	45	2,7	3050	0,3	10	10	0	85	EPDM*	-10	50	321K4313	2995.13	481865	8	9	2	7094
1/2"	12	50	3	3400	0,3	10	10	0	85	EPDM*	-10	50	321K4513	2995.13	481865	8	9	2	7094
3/4"	18	100	6	9400	0,3	10	10	0	85	EPDM*	-10	50	321K4613	2995.13	481865	8	9	2	7099
1"	18	110	6,6	10150	0,3	10	10	0	85	EPDM*	-10	50	321K4713	2995.13	481865	8	9	2	7100

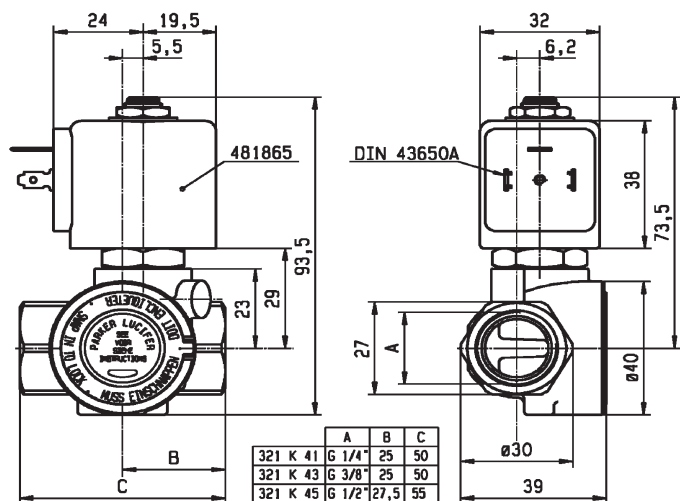
Notes:

PZH certified valves: NIPH-NIH Attestation/Certification B.BK.60110.0995.2022 (08.08.2022)

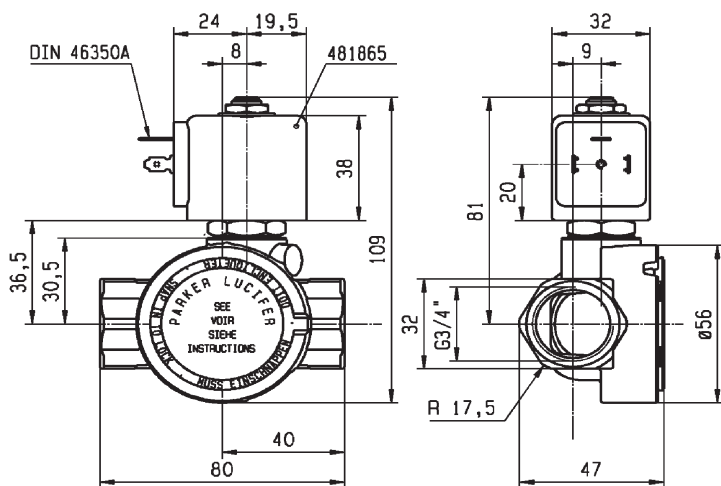
Metallic materials: compliant to "UBA Evaluation Criteria" – Product Group C-D

*EPDM compound: compliant to "UBA KTW-BWGL Guideline for Elastomers" – KTW/W270 tested and certified

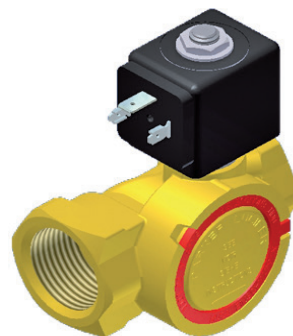
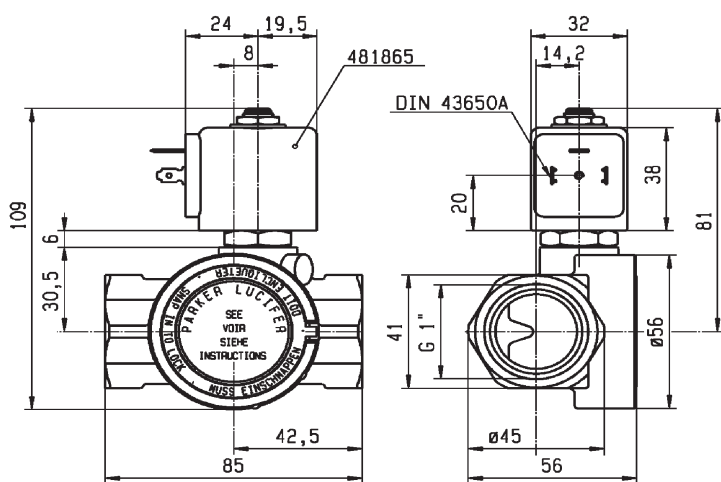
*EPDM compound: WRAS Approved Material under BS6920 (WRAS Approval Number: 1906540)



Drawing 7094



Drawing 7099



Drawing 7100

Coil Availability

Coil group

2.0/2.1 COILS FOR DIN PLUG CONNECTION



These coils can be mounted with every Parker solenoid valve corresponding to the specified Coil Group.
See column "Coil Group" in the valve pages.

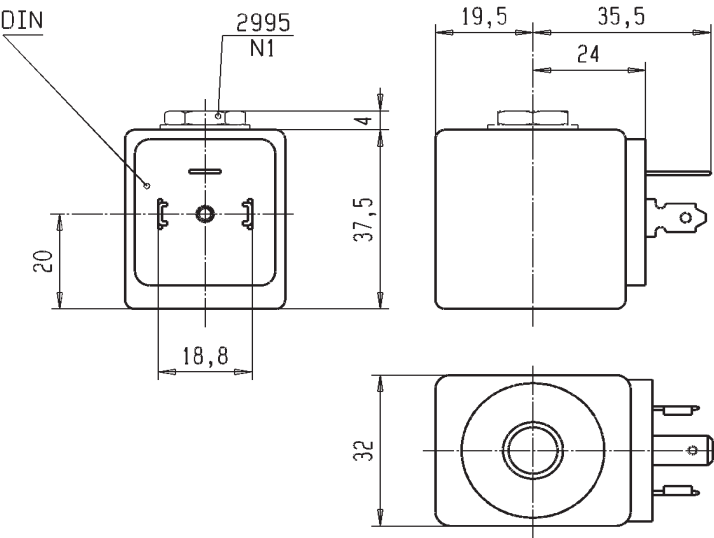
This is an encapsulated assembly comprising a coil, integral magnetic iron path, and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.
Ease of mounting in a confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.
Coils conform to the IEC/CENELEC safety standards and comply with European low-voltage directive.



Specification			Standard			Double frequency		
Ref. (without DIN plug)			481865			483510		
Ref. (with DIN plug)								
Coil Group			2.0 / 2.1					
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).					
Class of insulation			F 155°C					
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A					
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.					
Elect. Power	DC	Pn (hot)	9 W			-		
		P (cold) 20°C	12 W			-		
	AC	Pn (holding)	8 W			9 W		
		Attraction cold	26 VA (9 W)			32 VA (10 W)		
	Weight			130 g (without plug)				
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code
-10% to +10% of the Un			24/50	A2	24	C2	24/50, 24/60	P0
			48/50	A4	48	C4	48/50, 48/60	S4
			110/50	A5	110	C5	110-115/50, 120/60	S5
			220-230/50	3D			220-240/50, 240/60	S6

To Order a Coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = 481865C2
More voltage possibilities can be found in the table of voltage codes at the end of the coil section.



Coil Availability

Coil group

2.0/2.1 COILS FOR 2.2 DIN PLUG CONNECTION



HIGH TEMPERATURE COILS 32 mm

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

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

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.



Specification			High temperature				High temp. + high power			
Ref. (without DIN plug) Ref. (with DIN plug)			492453				492425			
Coil Group			2.0 / 2.1				2.0 / 2.2			
Degree of protection			IP65 according to IEC / EN 60529 standards (with DIN plug).							
Class of insulation			H 180°C							
Electrical connection			The coil is connected with a 2 P + E plug according to EN 175301-803 type A							
Ambient temperature			-40°C to +50°C The application is limited also by the temperature range of the valve.							
Elect. Power	DC	Pn (hot)	9 W				14 W			
		P (cold) 20°C	12 W				21 W			
	AC	Pn (holding)	8 W				14 W			
		Attraction cold	26 VA (9 W)				55 VA (18 W)			
Weight			130 g (without plug)							
Voltages "Un"			VAC/Hz	Code	VDC	Code	VAC/Hz	Code	VDC	Code
-10% to +10% of the Un			24/50	A2	24	C2	24/50	A2	24	C2
			110/50	A5			110/50	A5		
			220/50-230/50	3D	110	C5	230/50	F4		

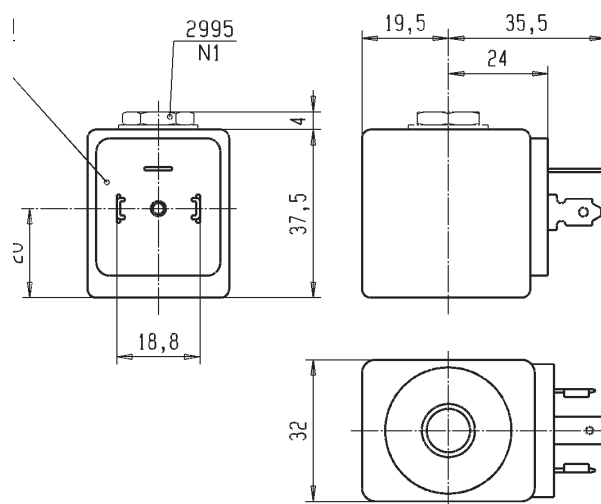
To Order a Coil choose Coil Ref + Voltage Code, example: 492453 for 24 VDC= 492453C2

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

These coils must be used with suitable housings, see example below:

Please use the coil assembly kit Ref. 2995.

It is composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.



Coil Availability

Coil group

2.0/2.1 COILS WITH FLYING LEADS



HIGH TEMPERATURE COILS 32 mm

This coil can be mounted with every Parker solenoid valves corresponding to the specified Coil Group.
See column "Coil Group" within valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

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

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive.

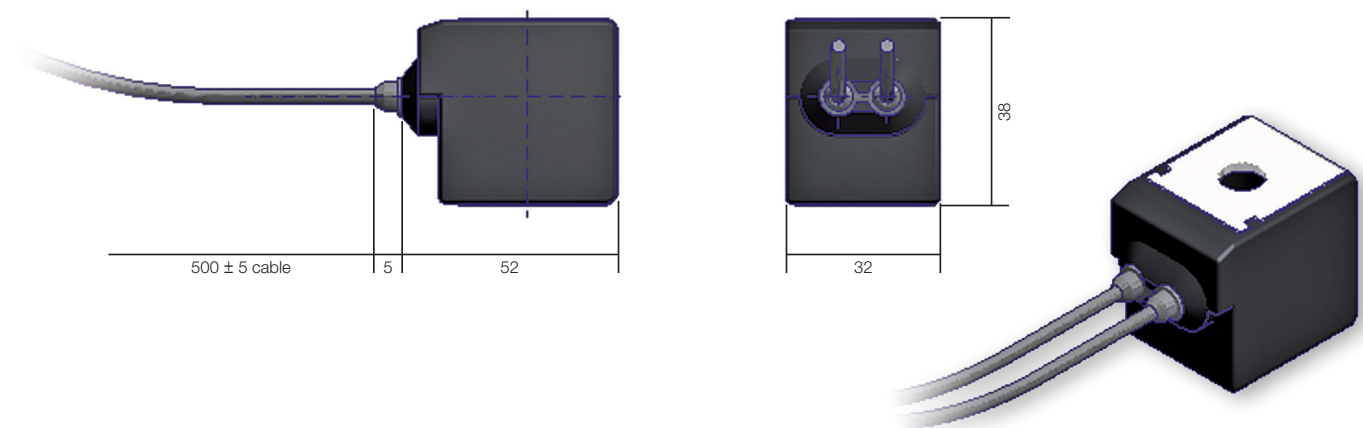


Specification			Coil with two 500 mm flying leads			
Reference			496081			
Coil Group			2.0 / 2.1			
Degree of protection			IP67 according to IEC / EN 60529 standards			
Class of insulation			F 155°C			
Ambient temperature			-40 °C to +50°C The application is limited also by the temperature range of the valve.			
Elect. Power	DC	Pn (hot)	9 W			
		P (cold) 20°C	-			
	AC	Pn (holding)	9 W			
		Attraction cold	32 VA			
Weight			180 g			
Voltages "Un"			VAC/Hz	Code	VDC	Code
-10% to +10% of Un for AC			24/50 - 24/60	P0	24	C2
- 5 % to + 10 % for Un DC			110-115/50 - 120/60	S5	12	C1
			220-240/50 - 240/60	S6		

To Order a Coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = 481865C2

More voltage possibilities can be found in the table of voltage codes at the end of the coil section.

To assemble this coil on our solenoid valves, please order housing Ref: 2995



How to order

Step 1

Select the pressure vessel catalogue number (description) and/or part number at pages 4/6

Seat Seal	Parker Valves		
	Valve Ref.	Housing Ref.	Coil Ref.
FDA FKM	321K4313	2995	481865
FDA FKM	121ZH1020	2995	481865
FDA FKM	121ZH1025	2995	481865



Step 2

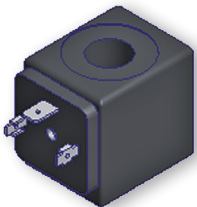
Add the housing reference after dash -
Example: 321K4313 - **2995.13**



Step 3

Please refer to the electrical group to determine the compatible coils on pages 8/9/10. Please follow the instructions included in each coil datasheet to determine the coil reference + voltage coil combination.
Example: 321K4313 - 2995.13 - **481865**.


Specification	Standard
Reference (without DIN plug)	481865



Step 4

Add the voltage code right after the coil reference.
Example: 321K4313 - 2995.13 - 481865**C2**.

- NOTE:
1. Pressure vessels and coils shall be ordered separately.
 2. Please consult your Parker contact in case of complete assemblies requirement.



WARNING - USER RESPONSIBILITY
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- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
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