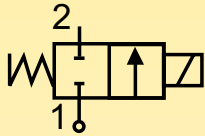


Solenoid valves for steam and high temperatures

2/2 way - Normally Closed - Direct Operated

Fittings: Rp = 1/8" - 1/4"

Series **161.4**

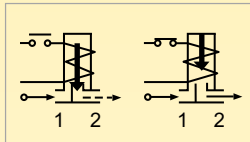


N.C.

Normally closed

Coil energised - open

Coil de-energised - closed



General description:

PARKER series 161.4 solenoid valves are direct operated and do not require a minimum differential pressure to operate. They are used for general applications with media such as **steam and superheated water**.

Series 161.4 valves are **normally closed**.

Temperatures:

The working temperature for media is:
maximum **+140°C**
minimum **-10°C**

The maximum ambient temperature is:
with class "F" Coils **+50°C**
with class "H" Coils **+80°C**

Application

Series 161.4 solenoid valves are ideal for automatic control of steam and superheated water with low flow rates.

Some examples of typical applications:

- Espresso coffee machines;
- Sterilisers;
- Electrical medical equipment;
- Humidifiers.

Coils:

For series 161.4 valves class "F" coils (**155°C**) are available encapsulated in thermoplastic containing 30% heat-stabilised glass fiber (type KT).

All the coils are for continuous service, 100% E.D.

The rated voltage tolerance is:
±10% for A.C. power supply and
+10% -5% in D.C.

The "K" coil can be used on a.c. with a frequency of 50 Hz (single frequency) and has Faston terminals for **DIN 43650A** connectors with protection to **IP65**.

Installation:

The valves can be mounted in any position without jeopardising their operation. It is however advisable to install them with the coil in a vertical position above the body.

Approvals:



- For the coils:

KH 09 115V/50Hz

230V/50Hz.

KT 09 115V/50Hz

220-230V/50Hz.



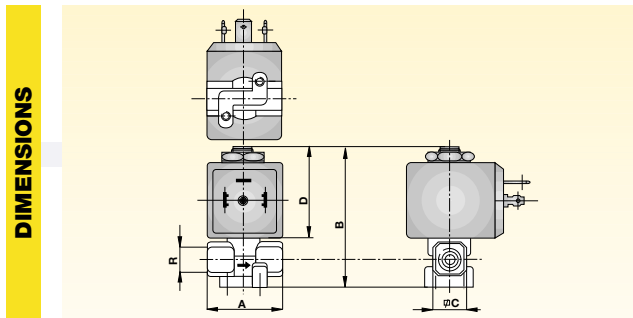
Series **161.4**

MATERIALS	• Valve body:	CW617N UNI EN 12165:98 brass stamping
	• Seals:	Viton
	• Enclosing tube:	OT58 UNI 5705 pressed brass
	• Plunger:	AISI 430F stainless steel
	• Spring:	AISI 302 stainless steel
	• Shading ring:	Copper

ELECTRICAL FEATURES	Coil type []		Power [W]		Insulat. class	
	A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)		
	KH 09	-	9	-		H
	KT 09	KT 10	9	10		F

SPECIFICATION	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max differential pressure (M.O.P.D.)		Coil type	Weight	Notes
	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]
	1/8	161.4 A	2,2	0,120	0	10	10	K	0,20	1 - 2
	1/4	161.4 E	2,2	0,120	0	10	10	K	0,22	1 - 2

Note: 1) NP (nominal pressure): 25 bar. 2) Maximum pressure for steam: 4 bar (140°C).



Fittings Ø Rp	A	B	C	D
["]	[mm]	[mm]	[mm]	[mm]
1/8	32	56	14	37,5
1/4	38	60	16	37,5

ORDER CODE	VE	161.4		V											
	COMPLETE VALVE		FITTINGS												
			A	1/8"											
			E	1/4"											
	SERIES			SEAL	V	Viton									
									[V]	[Hz]/d.c.					
									Coil type	24 V 50 Hz*	115V 50 Hz*	220-230 V 50 Hz*	240 V 50 Hz*	12 V d.c.	24 V d.c.
									KT 09	●	●	●	●		
									KT 10					●	
									KH 09	●	●	●			●

* models with 60 Hz available

Note: Valve supplied with coil in a multipack. Connectors to be ordered separately.