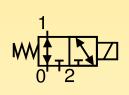
Solenoid Valves for Automation

3/2 way - Universal - Direct operated

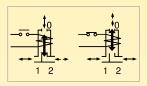
Fittings: G = 1/8" - 1/4"



Series 139



Universal **Solenoid valve**



General description:

PARKER series 139 solenoid valves are universal and may be used as normally closed, normally open and for bypass and mixer applications depending on the flow pattern chosen.

They are used for general applications with media such as water, air, light oils (2°E) and inert gases, provided they are compatible with the construction materials used.

Since they are direct-acting valves, they do not require a minimum differential pressure and function within the maximum differential pressure values (MOPD) indicated in the specification table.

The series 139 seal bubble tight.

Temperatures:

The working temperature for	media is:
maximum	+140°C
minimum	-10°C
The maximum ambient tempe	aratura ie:

• with class "F" coils +50°C

• with class "H" coils +80°C

Application:

Series 139 solenoid valves are used in applications which require actuation and automatic discharge of moving systems. They enable the flow to be diverted towards a single outlet or to select one flow from two.

Some typical application examples:

- Pneumatic systems;
- Air compressors;
- Pilot valves;
- Batch systems;
- Paper and board manufacturing machines;
- •Hydrocleaners;
- •Hygiene-health systems;
- Instruments;
- •Dryers; •Automatic dispensers.

Coils:

For series 139 valves class "F" coils (155°C) are available encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB).

Class "H"coils (180°C) are also available encapsulated in thermoplastic containing 40% glass fiber (type: ZH).

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

The rated voltage tolerance is:

±10% for A.C. power supply and

+10% -5% for D.C.

The "Z" and "Y" coils can be used on a.c. with frequency of 50/60Hz (dualfrequency). The "Z" coils have Faston terminals for DIN 43650A connectors with protection to IP65.

The "Y" coil has terminals with 2 x 1,000 mm cables with protection to IP67.

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. The valve body has a M4 x 8 mounting hole.

Approvals:

 (\mathbf{H})

• For the coils:

- **ZB 09** 115V/50-60Hz, 220-230V/50-60Hz, 240V/50-60Hz **ZH 09** 24V/50-60Hz **ZH 12** 12V DC, 24V DC
- YB 09 220-230V/50-60Hz
- For the coils:
- **ZB 09** 220-230V/50-60Hz, 240V/50-60Hz
- YB 09 220-230V/50-60Hz
- •UL Recognized Comp. coils mark: **ZB 09** 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz YB 09 24V/60Hz, 110-120V/60Hz,
 - 208-240V/60Hz



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for: water - air - light oils (2°E) - inert gases

ST	• Valve body: • Seals:	CW617N UNI EN 12165:98 brass stamping Viton	CAL ES	Coil t [••	Pow [W		insulat. class
TERIA	 Enclosing tube: Plunger: 	AISI 304 stainless steel AISI 430F stainless steel	CTRIC ATURI	A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
MATI	Spring:	AISI 302 stainless steel	Ŭ Ĺ	ZB 09	ZB 12	9	12	F
2	 Shading ring: 	Copper		YB 09	YB 12	9	12	F
				ZH 09	ZH 12	9	12	Н
				ZH 14	ZH 16	14	16	Н

-	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max di pressure (I	fferential M.O.P.D.)	Coil type	Weight	Notes
ATION	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]
FIC	1/8	139 A	1,5 (1,5)*	0,07	0	10	10	Z - Y	0,360	1
	1/8	139 B	2,0 (2,0)*	0,12	0	7	7	Z - Y	0,360	1
	1/4	139 F	2,0 (2,0)*	0,12	0	7	7	Z - Y	0,360	1
D	1/4	139 G	2,5 (2,5)*	0,17	0	4	4	Z - Y	0,360	1
S	1/4	139 L	3,5 (2,5)*	0,30	0	1	1	Z - Y	0,360	1

Note:

1) NP (nominal pressure): 64 bar.

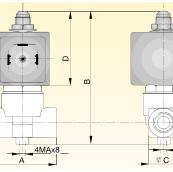
2) * Discharge diameter.

--

8



G



Fittings Ø G	A	В	C	D
["]	[mm]	[mm]	[mm]	[mm]
1/8	40,0	82,5	18	45,5
1/4	40,0	82,5	18	45,5

	PM	139		V						[V	7]	[Hz] /	d.c.
													_
	VALVE	FITTI	VGS				Coil	24 V	115V	220-230 V	240 V	12 V	24 V
Ш	BODY	A	1/8"				type 2B 09	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	d.c.	d.c.
CODE		В	1/8"			Z	.H 09	•					
ER		F	1/4"				2B 12 2 <mark>H 12</mark>					•	•
ORDER		G	1/4"				′B 09 ′B 12	•	•	•		•	•
Ŭ		L	1/4"		SEAL	Z		٠	٠	٠			
						2	2H 16					•	•
	SERIES			V	Viton								

Note: Valve supplied with body (PM) and coil separate. Connector to be ordered separately.



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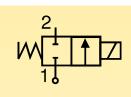
تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج) روبـروی پالایشگاه نفت پارس، پلاک ۱۴

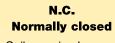
Solenoid valves for steam and high temperatures

2/2 way - Normally Closed - Direct Operated

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

Series 161.4





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).

FAMCO

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

The rated voltage tolerance is:

±10% for A.C. power supply and

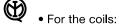
+10% -5% in D.C.

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:



- **KH 09** 115V/50Hz
 - 230V/50Hz.
- **KT 09** 115V/50Hz 220-230V/50Hz.





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for: steam - superheated water

	 Valve body Seals: 	Vito			stamping	ELECTRICAL FEATURES	Coil t		ſ	ower W]	insulat. class
	 Enclosing Plunger: 		8 UNI 5705 p 430F stainles			ECT	A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
	• Spring:		302 stainless	; steel			KH 09	-	9	-	Н
	• Shading rii	ng: Cop	per				KT 09	KT 10	9	10	F
	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max pressure	differential (M.O.P.D.)	(Coil ype	Weight	Notes
	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.([bar]	=)[]	[Kg]	[]
2	1/8	161.4 A	2,2	0,120	0	10	10		к	0,20	1-2
	1/4	161.4 E	2,2	0,120	0	10	10		К	0,22	1-2
	Note: 1)	NP (nominal	pressure): 25	bar. 2)	Maximum (pressure for s					_
						Fittings Ø Rp	A		В	C	D
						["]	[mm]		nm]	[mm]	[mm]
				ato		1/8 1/4	32 38		56 50	14 16	37,5 37,5
	VE	161	.4	V					[V]	[Hz]/d.c.
			FITTINGS			Coil		15V 220-		IO V 12 V	24 V
	COMPLE VALVE					type 5	50 Hz* 50	Hz* 50	Hz* 50	Hz* d.c.	d.c.
			A 1/8" E 1/4"			type 5 KT 09 KT 10 KH 09	50 Hz* 50) Hz* 50 ●	Hz* 50	Hz* d.c.	
			A 1/8"			KT 09 KT 10	•	•	Hz* 50	Hz* d.c. ●	
			A 1/8"	SE	EAL	КТ 09 КТ 10 КН 09	•	•	Hz* 50	Hz* d.c.	
	VALVE		A 1/8"	V	EAL Viton	КТ 09 КТ 10 КН 09	•	•	Hz* 50	Hz* d.c.	
	VALVE	RIES	A 1/8"	V	Viton	КТ 09 КТ 10 КН 09	th 60 Hz a	vailable	Hz* 50	Hz* d.c.	
	VALVE	RIES	A 1/8" E 1/4"	V	Viton	KT 09 KT 10 KH 09 * models wi	th 60 Hz a	vailable	•	• •	d.c.

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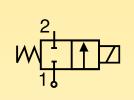
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روبـروی پالایشگاه نفت پارس، پلاک ۱۲

Solenoid Valves for Automation

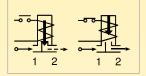
2/2 way - Normally Closed - Direct operated

Series 146



N.C. **Normally closed**

Coil energised - open Coil de-energised - closed



General description:

PARKER series 146 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 water, air, light oils (2°E) and inert gases, provided they are compatible with the construction materials used. Series 146 valves are normally closed.

Temperatures:

The working temperature for medi	a is:
maximum	+140°C
minimum	-10°C
The maximum ambient temperatu	re is:
•with class "F" coils	+50°C
•with class "H" coils	+80°C

Application:

Series 146 solenoid valves are ideal for the automatic control of media in a wide range of applications such as:

- Burglar alarm systems;
- •Sterilisers;
- •Espresso coffee machines;
- Diesel oil burners;
- Shoe manufacturing machinery;
- •Ceramic plants;
- •Air dryers;
- •Automatic dispensers;
- Industrial washing machines;
- •Water massage systems;
- •Floor washing machines;
- Welding systems;
- Machines for plastics;
- •Humidifiers.

For use with air the maximum differential pressure (MOPD) may be increased by 25%.

Fittings: G = 1/8" - 1/4"Coils:

For series 146 valves class "F" coils (155°C), encapsulated in thermoplastic containing 30% glass fiber (type ZB, YB), and class "H" coils (180°C), encapsulated in thermoplastic containing 40% glass fiber (type: ZH), are available.

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

The rated voltage tolerance is:

±10% for A.C. power supply and

+10% -5% for D.C.

The "Z" and "Y" coils can be used on a.c. with frequency of 50/60Hz (dualfrequency). The "Z" coils have Faston terminals for DIN 43650A connectors with protection to IP65.

The "Y" coil has terminals with 2 x 1,000 mm cables with protection to IP67.

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:	
------------------	--

- **ZB 09** 115V/50-60Hz, 220-230V/50-60Hz, 240V/50-60Hz
- ZH 09 24V/50-60Hz
- 12V DC. 24V DC ZH 12
- ZB 14 115V/50-60Hz, 220-230V/50-60Hz
- ZH 14 24V/50-60Hz
- ZH 16 24V DC 12V DC
- **YB 09** 220-230V/50-60Hz
- 220-230/50-60Hz YB 14



- For the coils:
- **ZB 09** 220-230V/50-60Hz, 240V/50-60Hz
- **ZB** 14 220-230V/50-60Hz
- **YB 09** 220-230V/50-60Hz
- For the model VE 146.3 ABV with DIN coil
- **ZH 1**4 with voltage 220-230V/50-60Hz

• UL Recognized Comp. coils mark: **ZB 09** 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz YB 09 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz



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FAMCO



for: water - air - light oils (2°E) - inert gases

	 Seals: Enclosing 			2165:98 brass	s stamping	AL		[]		[W]		class
	 Enclosing 	Viton		4 1		ELECTRICAL FEATURES	A.C.(~	~) D.C.	.(=) A.C	.(~) D.C.	(=)	
						EE	ZB 09				2	F
	 Plunger: 		430F stainles			E E C	ZB*14				6	F
	 Spring: 	AISI (302 stainless	s steel		금티	YB 09				2	F
	 Shading r 	ring: Copp	er				YB*14				6	F
	0	5 11					ZH*14				6	H
	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient K	Minimum pressure	Max pressur	c differenti e (M.O.P.	ial D.)	Coil type	Weig	ht	Notes
	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]).C.(=) [bar]	[]	[Kg]		[]
	1/8	146 F	2,5	0,197	0	15		12	Z-Y	0,340)	1
	1/8	146 H	3,0	0,270	0	10		8	Z-Y	0,340)	1
	1/4	146 W	2,5	0,197	0	15		12	Z-Y	0,340)	1
	1/4	146 Y	3,0	0,270	0	10		8	Z-Y	0,340		1
	1/4	146.3 K	4,5	0,527	0	10		3	Z *- Y*	0,340		1
	1/4	146.3 AB	6,0	0,750	0	8		1	Z* - Y*	0,340)	1
N	lote: 1) NP	(nominal pre	essure): 64 b	ar	See specifica	tion table.						
			A A			Fittings Ø G	ì	A	В	C		D
		ᡛ᠊᠊᠆᠂				["]	Ín	nm]	[mm]	[mm]		[mm]
			T m			*1/8		0,0	74,5	18		37,5
	Ţ	<u> </u>				1/0		0,0 0,0	74,5	18		37,5
	↓					*1/4		0.0	74,5	18		37,5
	PM	<u> </u>	6	→ [∞] c →	-	* excluded	mod. 14	6.3K - 14	6.3AB [V	[]	[Hz] /	d.c.
	VALVE BODY		FITTINGS			Coil type	24 V 50/60 Hz	115V 50/60 Hz	220-230 V 50/60 Hz	240 V 50/60 Hz	12 V d.c.	24 V d.c.
			F 1/8'			ZB 09	•	•	•	•		
			H 1/8'			ZH 09	٠					
						ZB 12					•	٠
						ZH 12					•	٠
			Y 1/4'			ZB 14	٠	٠	٠	•		
			•3K 1/4'	u la		ZB 16					•	٠
						YB 09	٠	•	•			
			•3AB 1/4			YB 12	-				•	•
						YB 14	•		•			
						YB 16	•				•	•
						ZH 14 ZH 16	•	•	•		•	
					SEAL						•	•
	OFF			V	Viton	Coil typ ZB 09 L		24 V / 60	Hz 110-	120 V / 60 Hz	208-240	V / 60 H
	SEF	RIES		v	TROTT			•		•		-
	later Males	a un a lla di se 10		and as !!	wate Oraci	YB 09 L		•		•		•
		supplied with	n body (PIVI)	and coil sepa	arate. Conne 57		ierea seț	barately.		ker Hannif E. Fermi, 5	in S.p.A	

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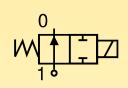
تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرچ) روبـروی پالایشگاه نفت پارس، پلاک ۱۴



Solenoid Valves for Automation

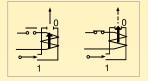
2/2 way - Normally open - Direct operated

Series 151



N.O. **Normally open**

Coil energised - closed Coil de-energised - open



General description:

PARKER series 151 solenoid valves have direct action and do not require a minimum differential pressure to operate.

They are used for general applications with media such as water, air, light oils (2° E) and inert gases, provided they the are compatible with the costruction materials used. Series 151 valves are normally open with connections at 90° on valve body (inlet) and enclosing tube (outlet).

Temperatures:

The working temperature for med	ia is:
maximum	+140°C
minimum	-10°C
The maximum ambient temperatu	re is:
•with class "F" coils	+50°C
•with class "H" coils	+80°C

Application:

Series 151 solenoid valves are ideal for the automatic control of media in the following applications:

- •Air compressors:
- •Pneumatic systems;
- Textile machines;
- •Water treatment plants;
- •Diesel oil burners.

Z804

-Red

For air applications the maximum differential pressure (MOPD) may be increased by 25%.

Fittings: G = 1/4"

Coils:

For series 151 valves class "F" coils (155°C), encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB), and class "H" coils (180°C), encapsulated in thermoplastic containing 40% glass fiber (type: ZH), are available.

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

The rated voltage tolerance is:

±10% for A.C. power supply and

+10% -5% for D.C.

The "Z" and "Y" coils can be used on a.c. with frequency of 50/60Hz (dualfrequency). The "Z" coils have Faston terminals for DIN 43650A connectors with protection to IP65.

The "Y" coil has terminals with 2 x 1,000 mm cables with protection to IP67.

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:

(H)· For the coils: **ZB** 09

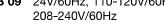
115V/50-60Hz, 220-230V/50-60Hz ZH 09 24V/50-60Hz **ZH 12** 12V DC, 24V DC 220-230V/50-60Hz YB 09



• For the coils: **ZB 09** 220-230V/50-60Hz, 240V/50-60Hz YB 09 220-230V/50-60Hz



• UL Recognized Comp. coils mark: **ZB 09** 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz YB 09 24V/60Hz, 110-120V/60Hz,







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for: water - air - light oils (2°E) - inert gases

									-	•		
ņ	Valve bod Seals:	y: CW61 Viton		2165:98 brass st	tamping	AL S	Co	oil type []		Pow [W		insulat. class
		tube: AISI 3	304 stainless 430F stainles			ELECTRICAL FEATURES	A.C.(~	-) D.C	.(=) A	A.C.(~)	D.C.(=)	
M	 Spring: 		302 stainless	steel			ZB 09		3 12	9	12	F
	 Shading r 	ing: Copp	er				YB 09 ZH 09		3 12 1 12	9 9	12 12	F
							ZH 14		116	14	16	Н
	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	M press	ax differenti ure (M.O.P.I	al D.)	Coil type		Weight	Notes
	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~		.C.(=)	[]		[Kg]	[]
Ş	1/4	151 G	1,5	0,078	0	[bar] 22		bar] 22	Z-Y		0,330	1
	1/4	151 H	2,0	0,150	0	12		12	Z-Y		0,330	1
			۵		-	Fittings Ø	G	A	В		C	D
			T m			["]	[m	nm]	[mm]		[mm]	[mm]
	. (- H				1/4	40	0,0	82,5		18	45,5
				₩C	_							
	PM	15	1	V						[V]	[Hz] / d.c.
	VALVE		FITTINGS			Coll	24.14	11EV	200 220	V 940	V 10 V	24.14
	BODY		G 1/4"			Coil type	24 V 50/60 Hz	115V 50/60 Hz	220-230 z 50/60 H			24 V d.c.
ł			H 1/4"			ZB 09 ZH 09	•	•	•	•		
			11 1/4			ZB 12					٠	٠
				_		ZH 12					٠	٠
						YB 09 YB 12	•	•	•			
5						ZH 14	•	•	•		•	•
						74 16	2	-	-		-	

Note: Valve supplied with body (PM) and coil separate.

Connector to be ordered separately.

24 V / 60 Hz

Darker

SERIES

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SEAL

Viton

V

ZB 12 ZH 12 YB 09 YB 12 ZH 14 ZH 16

Coil type

ZB 09 UL YB 09 UL

> Parker Hannifin S.p.A. via E. Fermi, 5

110-120 V / 60 Hz 208-240 V / 60 Hz

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Parker 7321B/ 7322B Series Water Valves

High performance 2-way pilot operated solenoid valves for water, light oils and steam





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Parker 7321B/7322B Series Water Valves

Parker 7321B/7322B 2/2 pilot operated valves is the best solution anywhere a perfect control media such water, steam, and light oils is required.

7321B/7322B Series are diaphragm pilot operated valves and require a minimum differential pressure to operate.

Water is the basic element for human life, and water control makes possible a wide varety of human activities such as irrigation and food production, breeding, water dispensing, energy production, car and tools washing; water is the basic element in many applications like fire-fighting, domotic, plumbing. Basing on solenoid technology, among the features this product provides a high flow rate, a fast reaction time and a superior reliability in a robust and modern design.

Manual override is available to open and close the valve without electrical supply, as well as speed control option against water hammer effect.

Our 7321B/7322B Water Valves range is usable with the most of our FCDE coil ranges, including ATEX, low power and IP67 electrical parts.





The Species Evolution

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Roman Age

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Parker Age



Applications

Thanks to the best performances in flow rate, 7321B/7322B Series can be used for many applications with high flow rates and media such as water, hot water and steam. Typical applications can be found in: Plumbing mkt, industrial washing machines, car wash installations, cooling of machine tools, hydrocleaners, autoclaves, irrigation systems, etc...

Benefits

Among the most valuable features you can find in this product:

- Best performances for minimum and maximum operating pressure differential
- Exclusive diaphragm design for a **Superior Flow Rate**, higher than the competition valves with the same dimensional specs and flat diaphragm
- **One of the Fastest** in electrical and hydraulic opening response time
- Modular concept: a wide range of electrical parts increases the versatility of this product
- Robust design: areas under mechanical stress have been studied and oversized
- Manual override control option: valve can be easily activated also when there's no energy supply
- Stainless steel pilot for superior life endurance with special sealing
- Easy access to internal parts, to permit easy and quick maintenance





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Introducing Parker 7321B/7322B Series Water Valves

General Description

Parker 7321B/7322B are diaphragm pilot operated solenoid valves and require a minimum differential pressure to operate.

This serie is available in both Normally Closed and Normally Open function: 7321B Serie is a Normally Closed family (closed when de-energised), 7322B Serie is the Normally Open family (Open when de-energised).

Material Specifications

Valve body:	CW617N UNI EN 12165:98	Spring:	AISI 302 St. Steel
Enclosing tube	Forged Brass AISI 304 stainless steel	Seals:	NBR (Buna N) - EPDM FKM (Viton)
Plunger:	AISI 430F St. Steel	Shading ring:	Copper

Installation

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

Media

These valves have been developed to achieve the best performances for water, steam, light oils (up to 2°E). Therefore these valves are not usable with gas and air.

We recommend to choose NBR versions for plumbing mkt (max. temp. 90°C), FKM version for water/light oils control applications up to 140°C, EPDM version for superheated water and steam (up to 140°C)

Electrical Parts

A wide range of electrical parts are available for 7321B/7322B Series. The complete offer of electrical parts is shown at pages 18 to 21.

Please consult factory in case you need to verify the compatibility of 7321B/7322B Series with alternative ranges of paper FCDE coils not inclused in this catalogue.

Please consult also the "How to Order" section at page 22 to select the product configuration which fits your application requirements.

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April 2010 ن ۲۰۰۰ میرد میر April 2010 تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرچ)

روبـروی پالایشگاه نفت پارس، پلاک ۱۲



Available Options

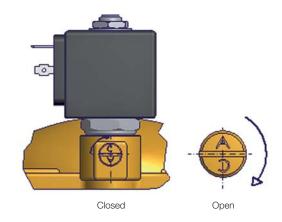
Manual Control

Parker 7321B Serie (NC version only) can be ordered with Manual control option. A manual control is used to operate the valve without connecting the coil.

The control consists in a slotted-head screw for a screwdriver and has two possible positions:

Closed: The letter "C" is in the upper position of the screw head (fig.1,2) **Open:** The letter "A" is in the upper position of the screw head (fig.1,2)

Standing in its closed position, the valve operates normally when coil is energised/de-energised. Manual and speed control are standard on 2 ½" and 3" versions.

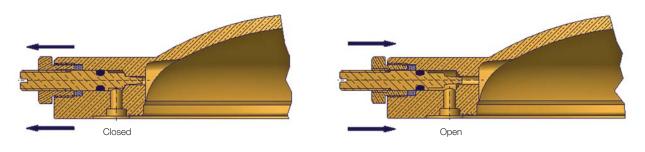


Speed Control Option (Anti-Water Hammer Control)

Parker 7321B Serie (NC version only) can be ordered with Speed control option. The closure time of certain types can be changed by means of the adjusting screw. The latter, by acting as a throttle on the inlet equalisation (pilot) hole of the valve, slows down the closure speed of the valve, thus reducing the water hammer effect.

The regulation range is as follows:

Screw fully open: Max. closure speed Screw fully closed: Valve always open

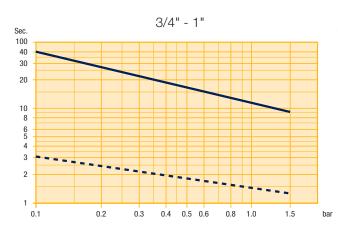


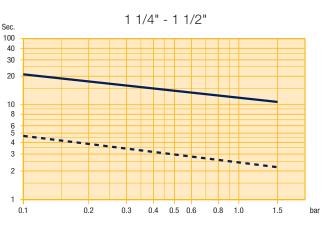
Please consult diagrams at page 6 of this catalogue to find details about shut-off response time with speed control option.

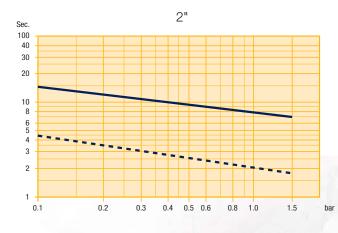
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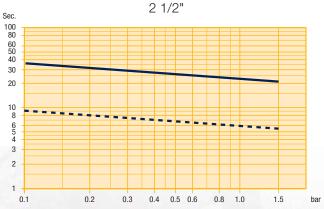


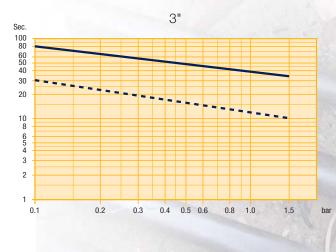
Diagrams of the Closing Times











Curve 1: Closing time with adjusting screw open by 1/2 turn
 Curve 2: Closing time with adjusting screw completely open

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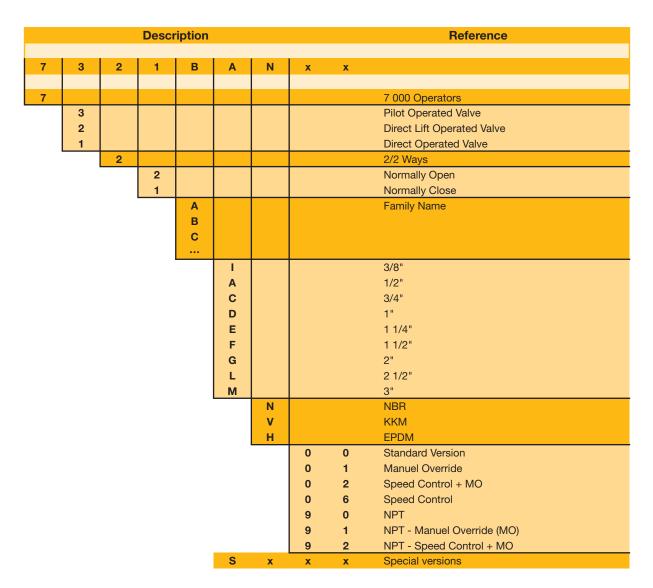


Product availability

7321B/7322B Pressure Vessel

A wide range of configurations for this solenoid valve family is available: port sizes from 3/8" to 3" in brass, with BSPP port threads or with NPT ports, along with a wide range of seal and disc materials ensures that we have a standard valve to fit most applications.

In the table herebelow you might also find an explanation of the general description system for 7321B/7322B Series water valves family.



Please note:

- Electrical parts available are not included in the description system hereabove which refers to pressure vessel only. You can find electrical parts available at pages 18 to 21.
- Please consult in detail the "How to Order" section at page 22.
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2/2 Normally Closed - BSP threads

Port Size G	Orifice mm	Flow m³/h	Factors I/min	Minimum Pressure	Maximum Differential	Weight Kg	Manual Control	Speed Control Pressure	Description	Part Number	Dimensional Drawing
3/8"	13	3.0	50.0	0.1	20	0.55	-	-	7321BIN00	443776W	2
3/0	13	3.0	50.0	0.1	20	0.55	Х	-	7321BIN01	443777W	2
1/2"	13	3.0	50.0	0.1	20	0.58	-	-	7321BAN00	443779W	2
1/2	13	3.0	50.0	0.1	20	0.58	Х	-	7321BAN01	443780W	2
	20	8.4	139.9	0.1	20	1.02	-	-	7321BCN00	443782W	
3/4"	20	8.4	139.9	0.1	10	1.02	Х	-	7321BCN01	443783W	3
	20	8.4	139.9	0.1	10	1.02	Х	Х	7321BCN02	443784W	
	25	9.6	159.9	0.1	20	1.08	-	-	7321BDN00	443786W	
1"	25	9.6	159.9	0.1	10	1.08	Х	-	7321BDN01	443787W	3
	25	9.6	159.9	0.1	10	1.08	Х	Х	7321BDN02	443788W	
	35	25.2	419.8	0.1	10	3.15	-	-	7321BEN00	443790W	
1 1/4"	35	25.2	419.8	0.1	5	3.15	Х		7321BEN01	443791W	4
	35	25.2	419.8	0.1	5	3.15	Х	Х	7321BEN02	443792W	
	40	30.0	499.8	0.1	10	2.90	-	-	7321BFN00	443794W	
1 1/2"	40	30.0	499.8	0.1	5	2.90	Х	-	7321BFN01	443795W	4
	40	30.0	499.8	0.1	5	2.90	Х	Х	7321BFN02	443796W	
	50	37.2	619.8	0.1	10	4.30	-	-	7321BGN00	443798W	
2"	50	37.2	619.8	0.1	5	4.30	Х	-	7321BGN01	443799W	4
	50	37.2	619.8	0.1	5	4.30	Х	Х	7321BGN02	443800W	
2 1/2"	65	66.0	1099.6	0.2	10	13.60	х	Х	7321BLN02	443802W	5
3"	75	80.0	1332.8	0.2	10	11.90	Х	Х	7321BMN02	443803W	5

NBR Seals (Max. Media Temp. 90°C)

Nominal pressure: 25 bar from 1 1/4" to 3" 16 bar

FKM Seals (Max. Media Temp. 140°C)

Port Size G	Orifice mm	Flow m3/h	Factors I/min		Maximum Differential	Weight Kg	Manual Control	Speed Control Pressure	Description	Part Number	Dimensional Drawing
3/8"	13	3.0	50.0	0.1	20	0.55	-	-	7321BIV00	444492W	2
1/2"	13	3.0	50.0	0.1	20	0.58	-	-	7321BAV00	444494W	2
3/4"	20	8.4	139.9	0.1	20	1.02	-	-	7321BCV00	444497W	3
1"	25	9.6	159.9	0.1	20	1.08	-	-	7321BDV00	443804W	3

Nominal pressure: 25 bar

EPDM Seals (Max. Media Temp. 140°C)

Port Size G	Orifice mm	Flow m ³ /h	Factors I/min	Minimum Pressure	Maximum Differential	Weight Kg	Manual Control	Speed Control Pressure	Description	Part Number	Dimensional Drawing
3/8"	13	3.0	49.98	0.1	10	0.55	-	-	7321BIH00	443778W	2
1/2"	13	3.0	49.98	0.1	10	0.55	-	-	7321BAH00	443781W	2
3/4"	20	8.4	139.94	0.1	10	1.02	-	-	7321BCH00	443785W	3
1"	25	9.6	159.94	0.1	10	1.08	-	-	7321BDH00	443789W	3
1 1/4"	35	25.2	419.83	0.1	10	3.15	-	-	7321BEH00	443793W	4
1 1/2"	40	30.0	499.80	0.1	10	2.90	-	-	7321BFH00	443797W	4
2"	50	37.2	619.75	0.1	10	4.30	-	-	7321BGH00	443801W	4

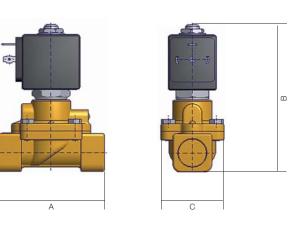
Nominal pressure: 25 bar - Max press for steam: 4 bar

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April 2010 ن ۲۰۰۰ میں میں کرچ کی کی کمپری کرچ کی کمپری (جادہ مخصوص کرچ) تھران، کیلومتر ۲۱ بزرگراہ لشگری (جادہ مخصوص کرچ)

روبـروی پالایشگاه نفت پارس، پلاک ۱۲



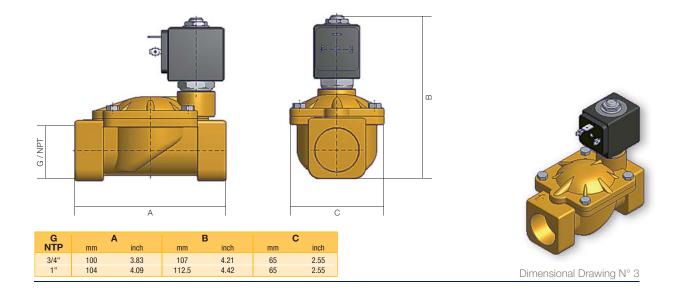




Dimensional Drawing N° 2

G		A	E	3)
NTP	mm	inch	mm	inch	mm	inch
3/8"	69	2.71	99.5	3.91	40	1.57
1/2"	72	2.83	101.5	3.99	40	1.57

G / NPT



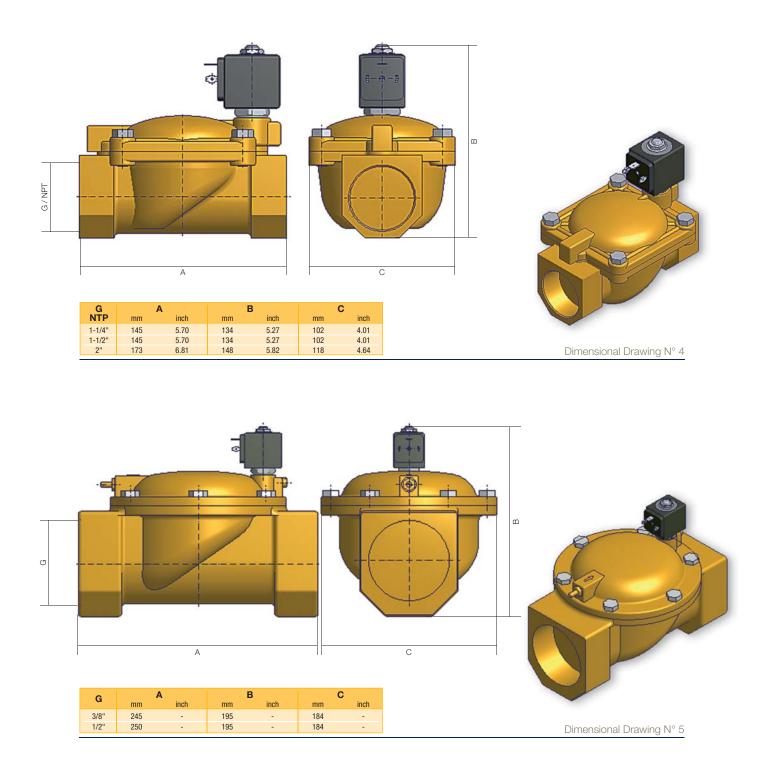
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2/2 Normally Closed - BSP threads



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2/2 Normally Open - BSP threads

Port Size G	Orifice mm	Flow m³/h	Factors I/min	Minimum Pressure	Maximum Differential	Weight Kg	Manual Control	Speed Control Pressure	Description	Part Number	Dimensional Drawing
3/8"	13	3.0	49.98	0.1	20	0.55	-	-	7322BIN00	443805W	6
1/2"	13	3.0	49.98	0.1	20	0.58	-	-	7322BAN00	443806W	6
3/4"	20	8.4	139.94	0.1	20	1.02	-	-	7322BCN00	443807W	7
1"	25	9.6	159.94	0.1	20	1.08	-	-	7322BDN00	443808W	7
1 1/4"	35	25.2	419.83	0.1	10	3.15	-	-	7322BEN00	443809W	8
1 1/2"	40	30.0	499.80	0.1	10	2.90	-	-	7322BFN00	443810W	8
2"	50	37.2	619.75	0.1	10	4.30	-	-	7322BGN00	443811W	8
2 1/2"	65	66.0	1099.56	0.2	10	13.60	-	Х	7322BLN06	444513W	9
3"	75	80.0	1332.80	0.2	10	11.90	-	Х	7322BMN06	444503W	9

NBR Seals (Max. Media Temp. 90°C)

Nominal pressure: 25 bar from 1 1/4" to 3" 16 bar

FKM Seals (Max. Media Temp. 140°C)

Port Size G	Orifice mm	Flow m ³ /h	Factors I/min		Maximum Differential	Weight Kg	Manual Control	Speed Control Pressure	Description	Part Number	Dimensional Drawing
3/8"	13	3.0	49.98	0.1	20	0.55	-	-	7322BIV00	444499W	6
1/2"	13	3.0	49.98	0.1	20	0.58	-	-	7322BAV00	444500W	6
3/4"	20	8.4	139.94	0.1	20	1.02	-	-	7322BCV00	444501W	7
1"	25	9.6	159.94	0.1	20	1.08	-	-	7322BDV00	444502W	7

Nominal pressure: 25 bar from 1 1/4" to 2" 16 bar

EPDM Seals (Max. Media Temp. 140°C)

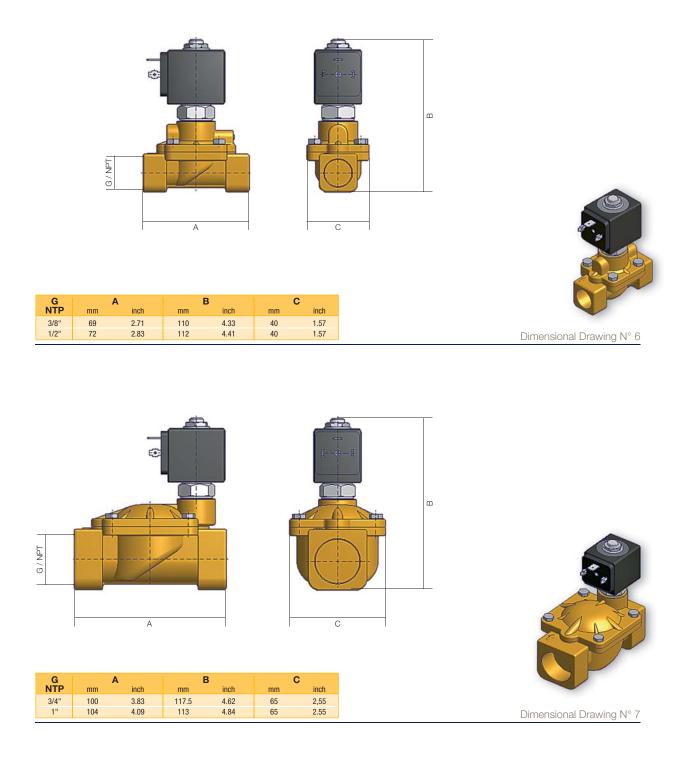
Port Size G	Orifice mm	Flow m³/h	Factors I/min	Minimum Pressure	Maximum Differential	Weight Kg	Manual Control	Speed Control Pressure	Description	Part Number	Dimensional Drawing
3/8"	13	3.0	49.98	0.1	10	0.55	-	-	7322BIH00	444600W	6
1/2"	13	3.0	49.98	0.1	10	0.58	-	-	7322BAH00	444601W	6
3/4"	20	8.4	139.94	0.1	10	1.02	-	-	7322BCH00	444602W	7
1"	25	9.6	159.94	0.1	10	1.08	-	-	7322BDH00	444603W	7
1 1/4"	35	25.2	419.83	0.1	10	3.15	-	-	7322BEH00	444576W	8
1 1/2"	40	30.0	499.80	0.1	10	2.90	-	-	7322BFH00	444604W	8
2"	50	37.2	619.75	0.1	10	4.30	-	-	7322BGH00	444605W	8

Nominal pressure: 25 bar from 1 1/4" to 2" 16 bar

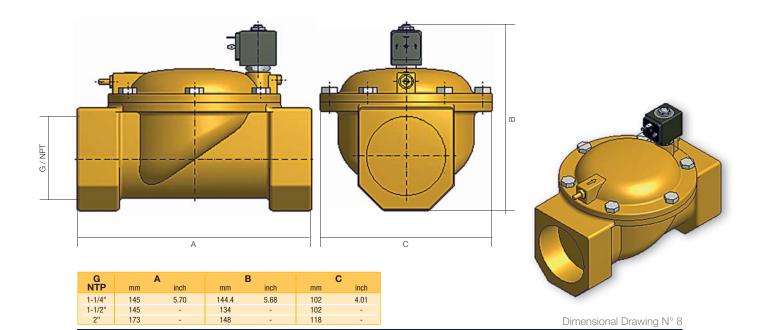
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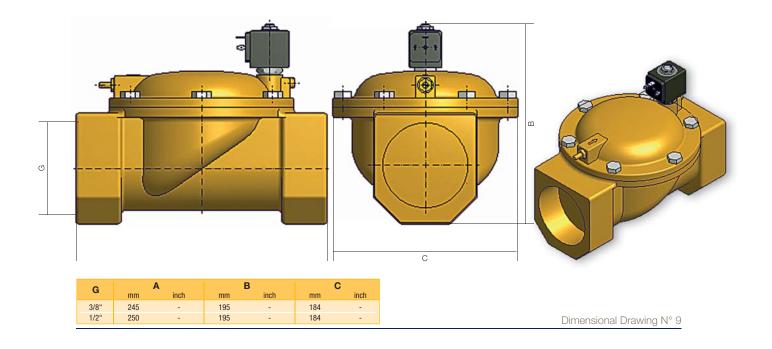


2/2 Normally Open - BSP threads









All dimensions are in mm

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2/2 Normally Closed - NPT threads

NBR Seals (Max. Media Temp. 90°C)

Port Size NPT	Ori mm	fice inch	Flow m³/h	Factors gpm		mum sure PSI	Maxi Differ bar		Wei Kg	ight Ibs	Description	Part Number	Dimensional Drawing
3/8"	13	0.51	3.0	13.23	0.1	1.45	20	290	0.55	1.21	7321BIN90	444107W	1
1/2"	13	0.51	3.0	13.23	0.1	1.45	20	290	0.55	1.21	7321BAN90	444108W	1
3/4"	20	0.78	8.4	37.04	0.1	1.45	20	290	1.02	2.24	7321BCN90	444109W	2
1"	25	0.98	9.6	42.34	0.1	1.45	20	290	1.08	2.38	7321BDN90	444110W	2
1 1/4"	35	1.37	25.2	111.13	0.1	1.45	10	145	3.15	6.93	7321BEN90	444168W	3
1 1/2"	40	1.56	30.0	132.30	0.1	1.45	10	145	4.30	9.46	7321BFN90	444169W	3
2"	50	1.95	37.2	164.05	0.1	1.45	10	145	4.30	9.46	7321BGN90	444119W	3

Nominal pressure: 25 bar/360 PSI from 1 1/4" to 2" 16 bar/230 PSI

EPDM Seals (Max. Media Temp. 140°C)

Port Size NPT	Ori mm	fice inch	Flow F m³/h	actors gpm		mum ssure PSI	Maxi Differ bar	mum ential PSI	Wei Kg	ght Ibs	Description	Part Number	Dimensional Drawing
3/8"	13	0.51	3.0	13.23	0.1	1.45	10	145	0.55	1.21	7321BIH90	444209W	1
1/2"	13	0.51	3.0	13.23	0.1	1.45	10	145	0.55	1.21	7321BAH90	444210W	1
3/4"	20	0.78	8.4	37.04	0.1	1.45	10	145	1.02	2.24	7321BCH90	444211W	2
1"	25	0.98	9.6	42.34	0.1	1.45	10	145	1.08	2.38	7321BDH90	444606W	2

Nominal pressure: 25 bar/360 PSI

2/2 Normally Open - NPT threads

NBR Seals (Max. Media Temp. 90°C)

Port Size NPT	Ori mm	fice inch	Flow m³/h	Factors gpm		mum ssure PSI		mum ential PSI	Wei Kg	ght Ibs	Description	Part Number	Dimensional Drawing
3/8"	13	0.51	3.0	13.23	0.1	1.45	20	290	0.55	1.21	7322BIN90	444234W	6
1/2"	13	0.51	3.0	13.23	0.1	1.45	20	290	0.55	1.21	7322BAN90	444610W	6
3/4"	20	0.78	8.4	37.04	0.1	1.45	20	290	1.02	2.24	7322BCN90	444611W	7
1"	25	0.98	9.6	42.34	0.1	1.45	20	290	1.08	2.38	7322BDN90	444612W	7
1 1/4"	35	1,37	25,2	111,13	0.1	1.45	10	145	3,15	6,93	7322BEN90	444320W	8

EPDM Seals (Max. Media Temp. 140°C)

Port Size NPT	Ori mm	fice inch	Flow m³/h	Factors gpm		imum ssure PSI		mum ential PSI	Wei Kg	ght Ibs	Description	Part Number	Dimensional Drawing
3/8"	13	0.51	3.0	13.23	0.1	1.45	10	145	0.55	1.21	7322BIH90	444613W	6
1/2"	13	0.51	3.0	13.23	0.1	1.45	10	145	0.55	1.21	7322BAH90	444614W	6
3/4"	20	0.78	8.4	37.04	0.1	1.45	10	145	1.02	2.24	7322BCH90	444615W	7
1"	25	0.98	9.6	42.34	0.1	1.45	10	145	1.08	2.38	7322BDH90	444616W	7
1 1/4"	35	1,37	25,2	111,13	0.1	1.45	10	145	3,15	6,93	7322BEH90	444576W	8

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May 2016 ن ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)





Electrical parts availability

Standard Coil Mono-Frequency, F class

Encapsulated in synthetic material, Connector for 2P + E DIN 43650 A Plug. IP65 rate can be achieved using a DIN Plug connector only.

Voltage	Power Consumption	Approvals	Description	Part Number	Dimensional Drawing
24/50	8 W	-	481865A2	439500	10
48/50	8 W	-	481865A4	439515	10
110/50	8 W	-	481865A5	439514	10
220-230/50	8 W	-	4818653D	439502	10
380/50	8 W	-	481865A9	439531	10
24/60	8 W	-	481865B2	439804	10
230/60	8 W	-	481865J3	439530	10
115/60	8 W	-	481865K8	439528	10
12 DC	9 W	-	481865C1	439508	10
24 DC	9 W	-	481865C2	439501	10
48DC	9 W	-	481865C4	439523	10
110V DC	9 W	-	481865C5	439532	10

Standard Coil Bi-Frequency, F class

Encapsulated in synthetic material, Connector for 2P + E DIN 43650 A Plug. IP65 rate can be achieved using a DIN Plug connector only.

Voltage	Power Consumption	Approvals	Description	Part Number	Dimensional Drawing
12/50-60	9 W	-	4835101W	439812	10
24/50-60	9 W	-	483510P0	439503	10
48/50-60	9 W	-	483510S4	439526	10
110-115/50 120/60	9 W	-	483510S5	439507	10
220-240/50 240/60	9 W	-	483510S6	439504	10

UL approved Coil, F class

Encapsulated in synthetic material, Connector for 2P + E DIN 43650 A Plug. IP65 rate can be achieved using a DIN Plug connector only.

Voltage	Power Consumption	Approvals	Description	Part Number	Dimensional Drawing
24/60	13 W	UL	491514B2	439511	10
24DC	16 W	UL/VDE	491514C2	439520	10
110/50 120/60	13 W	UL	491514P3	439512	10
220/50 240/60	13 W	UL	491514Q3	439513	10

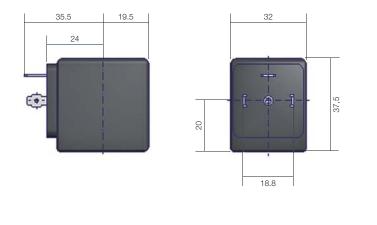
H class Coil

(DC, AC 14W) encapsulated in synthetic material. Connection for 2P + E DIN 43650 A Plug. IP65 rate can be achieved using a DIN Plug connector only.

Vo	ltage Pov	ver Consumption	Approvals	Description	Part Number	Dimensional Drawing
24	4/50	14 W	-	492425A2	439550	10
11	0/50	14 W	-	492425A5	439551	10
23	0/50	14 W	-	492425F4	439518	10
2.	4DC	14 W	-	492425C2	439522	10

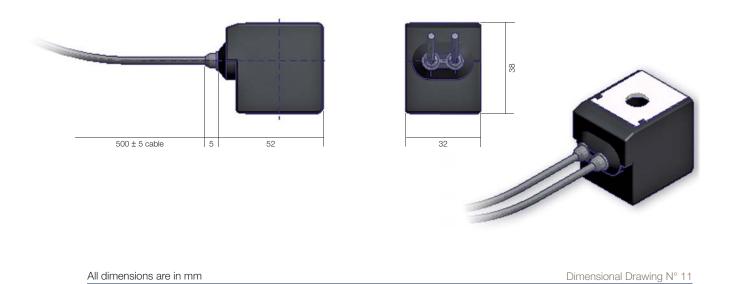
⑧ w w w . f a m c o c o r p . c o m ☑ E-mail: info@famcocorp.com ◎ @famco_group ---Теl:0۲I- ۴ Л о о о о ۴ ۹ Бах:07I - ۴۴۹۹۴۶۴۲ April 2010 ت ۲۰۰۰ میرد مخصوص کرچ) تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرچ) روبـروی پالایشگاه نفت پارس، پالک ۱۲







Dimensional Drawing N° 10



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روبـروی پالایشگاه نفت پارس، پلاک ۱۲



Electrical parts availability

IP67 Coil with two 500 mm flying leads, F class

Encapsulated in synthetic material. Protection rate IP67 as per DIN 40050. Connection: 2 x 500 mm cables

Voltage	Power Consumption	Approvals	Description	Part Number	Dimensional Drawing
24/50 - 24/60	9 W	-	496081P0	439816	11
110-115/50 120/60	9 W	-	496081S5	439820	11
220-240/50 240/60	9 W	-	496081S6	439822	11
24DC	9 W	-	496081C2	439818	11
12DC	9 W	-	496081C1	439814	11

IP67 coil with two 500 mm flying leads, F class, UL approved

Encapsulated in synthetic material. Protection rate IP67 as per DIN 40050. Connection: 2 x 500 mm cables

Voltage	Power Consumption	Approvals	Description	Part Number	Dimensional Drawing
24/60	13 W	UL	496082B2	439826	11
110/50 120/60	13 W	UL	496082P3	439828	11
208-240/60	14 W	UL	496082U3	439824	11
220/50 240/60	13 W	UL	496082Q3	439834	11
24DC	16 W	UL	496082C2	439832	11
12DC	16 W	UL	496082C1	439830	11

Explosion-proof EEx m II T4 (IP65)

Coil with housing integrated. Coil and magnetic circuit encapsulated in synthetic material. The complete housing is supplied with an encapsulated connection cable (3 x 0.75 mm² section), cable length is 3 000 mm with cable gland PG11. Power consumption: 8W AC, 9W DC.

Voltage	Power Consumption	Approvals	Description	Part Number	Dimensional Drawing
24DC	9 W	ATEX EEx m II 2GD	492670C2	492670C2	12
230/50	8 W	ATEX EEx m II 2GD	492670F4	492670F4	12

Explosion-proof II 2 G-EEx dm IIC T4

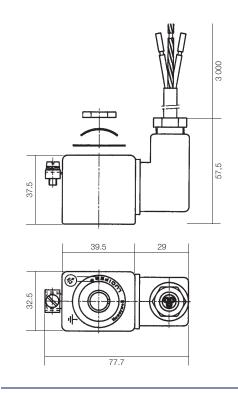
Coil/housing assembly encapsulated in synthetic material (H class). Protection degree: IP67. Cable connection through cable gland M20x1.5 (DIN 46320).

Voltage	Power Consumption	Approvals	Description	Part Number	Dimensional Drawing
24DC	8 W	ATEX - EEx d mb IIC 2GD	495905C2	495905C2	13
48DC	8 W	ATEX - EEx d mb IIC 2GD	495905C4	495905C4	13
110DC	8 W	ATEX - EEx d mb IIC 2GD	495905C5	495905C5	13
24/50	8 W	ATEX - EEx d mb IIC 2GD	495905A2	495905A2	13
48/50	8 W	ATEX - EEx d mb IIC 2GD	495905A4	495905A4	13
240/60	8 W	ATEX - EEx d mb IIC 2GD	495905B8	495905B8	13
115/50	8 W	ATEX - EEx d mb IIC 2GD	495905E5	495905E5	13
230/50	8 W	ATEX - EEx d mb IIC 2GD	495905F4	495905F4	13
115/60	8 W	ATEX - EEx d mb IIC 2GD	495905K8	495905K8	13

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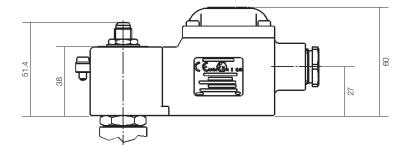
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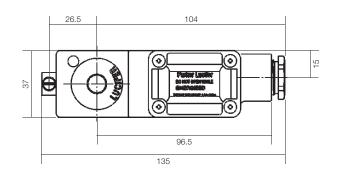






Dimensional Drawing N° 12





All dimensions are in mm

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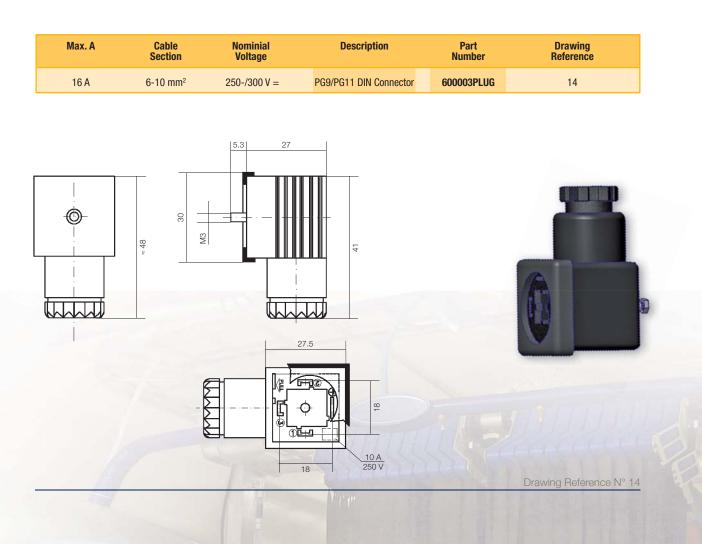
Dimensional Drawing N° 13

April 2010 ت ۲۰۰۰ میرد تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج) روبـروی پالایشگاه نفت پارس، پاک ۱۲



Accessories

Connector 2P + E DIN 43650 A



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Spare Parts

Diaphragm Service Kit

This kit contains diaphragm only. Basing on port size of the valve and seals material required, please consult the prospect herebelow. Spare part kit is the same for Normally open and Normally closed versions.

Valve Port Size BSPP or NPT	Description	Part Number	Diaphragm Material
	Diaphragm 7321B/7322B N 3/8"-1/2"	306100SP	NBR
3/8" - 1/2"	Diaphragm 7321B/7322B V 3/8"-1/2"	306111SP	FKM
	Diaphragm 7321B/7322B H 3/8"-1/2"	306110SP	EPDM
	Diaphragm 7321B/7322B N 3/4"-1"	306120SP	NBR
3/4" - 1"	Diaphragm 7321B/7322B V 3/4"-1"	306131SP	FKM
	Diaphragm 7321B/7322B H 3/4"-1"	306130SP	EPDM
1 1/4" - 1 1/2"	Diaphragm 7321B/7322B N 1 1/4"-1 1/2"	306133SP	NBR
1 1/4 - 1 1/2	Diaphragm 7321B/7322B H 1 1/4"-1 1/2"	306138SP	EPDM
2"	Diaphragm 7321B/7322B N 2"	306140SP	NBR
2	Diaphragm 7321B/7322B H 2"	306150SP	EPDM
2 1/2" - 3"	Diaphragm 7321B/7322B N 2 1/2"-3"	306156SP	NBR

Rebuild Service Kit

This kit contains diaphragm, sleeve, plungers and seals. Basing on function, port size and seals material required, please consult the prospect herebelow. Spare part kit is not the same for Normally open and Normally closed versions.

Valve Port Size	Valve Fonction	Description	Part Number	Diaphragm Material
	NC	Rebuild Kit 7321B N - 3/8", 1/2", NBR	430088W	NBR
3/8" - 1/2"	NC	Rebuild Kit 7321B V - 3/8", 1/2", FKM	430090W	FKM
	NC	Rebuild Kit 7321B H - 3/8", 1/2", EPDM	430133W	EPDM
3/4" - 1"	NC	Rebuild Kit 7321B N - 3/4", 1", NBR	430089W	NBR
1 1/4" - 1 1/2"	NC	Rebuild Kit 7321B N - 1-1/4", 1-1/2", NBR	430095W	NBR
1 1/4 - 1 1/2	NC	Rebuild Kit 7321B H - 1-1/4", 1-1/2", EPDM	430135W	EPDM
2"	NC	Rebuild Kit 7321B N - 2", NBR	430096W	NBR
2	NC	Rebuild Kit 7321B H - 2", EPDM	430136W	EPDM
3/8" - 1/2"	NO	Rebuild Kit 7322B N - 3/8", 1/2", NBR	430137W	NBR
3/4" - 1"	NO	Rebuild Kit 7322B N - 3/4", 1", NBR	430138W	NBR
1 1/4" - 1 1/2"	NO	Rebuild Kit 7322B N - 1-1/4", 1-1/2", NBR	430139W	NBR
2"	NO	Rebuild Kit 7322B N - 2", NBR	430140W	NB



How to Order

Step 1

Select the pressure vessel catalogue number (description) and/or part number at pages 8 to 19.



Step 2

Select the electrical part catalogue number and/or part number at pages 20 to 23.

Step 3

Select accessories at page 24.

Ordering a product or a configuration not listed in the catalogue

When an application demands a combination of features not listed in the catalog, use the significant description system indicated at page 7 to specify the exact valve needed. Parker FCDE personnel will assist in determining the applicability, availability and price of the new product.

WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

• This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

• 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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April 2010

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

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- Aircraft engines
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- Missiles & launch vehicles
- Regional transports • Unmanned aerial vehicles

Key Products · Flight control systems

- & components
- Fluid conveyance systems
- Fluid metering delivery
- & atomization devices
- · Fuel systems & components Hydraulic systems & components
- Inert nitrogen generating systems
- Pneumatic systems & components
- Wheels & brakes



CLIMATE CONTROL

- **Key Markets** Agriculture
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- · Food, beverage & dairy
- · Life sciences & medical
- · Precision cooling
- Processing Transportation

Key Products

- CO² controls Electronic controllers
- Filter driers
- · Hand shut-off valves
- Hose & fittings
- · Pressure regulating valves
- Refrigerant distributorsSafety relief valves
- Solenoid valves

PNEUMATICS

Key Markets

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· Packaging machinery

• Transportation & automotive

Food & beverage

Machine tools

Key Products

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· Guided cylinders

· Miniature fluidics

· Rodless cylinders

· Rotary actuators

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FILTRATION

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Transportation

Key Products

& systems • Hydraulic, lubrication

& coolant filters

air generators

· Process, chemical, water

& microfiltration filters

Nitrogen, hydrogen & zero

SEALING & SHIELDING

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• Energy, oil & gas

General industrial

• Information technology

Telecommunications

Key Markets

Aerospace

Consumer

· Fluid power

• Life sciences

Transportation

Key Products

Dynamic seals

• EMI shielding

· Elastomeric o-rings

• Extruded & precision-cut,

Homogeneous & inserted

elastomeric shapes

composite seals Thermal management

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Metal & plastic retained

fabricated elastomeric seals

· High temperature metal seals

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Analytical gas generators

Condition monitoring

· Compressed air & gas filters

· Engine air, fuel & oil filtration

ELECTROMECHANICAL

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- Factory automationFood & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery Plastics machinery & converting
- · Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products

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- · Electric actuators Controllers
- · Gantry robots
- Gearheads
- Human machine interfaces
- Industrial PCs
- Inverters
- Linear motors, slides and stages Precision stages
- Stepper motors
- Servo motors, drives & controls
- Structural extrusions

PROCESS CONTROL

· Chemical & refining

Medical & dental

Microelectronics

Power generation

products & systems

valves & regulators

& regulators

fittings, valves & pumps

Key Products

• Oil & gas

Food, beverage & dairy

Analytical sample conditioning

Fluoropolymer chemical delivery

· High purity gas delivery fittings,

Instrumentation fittings, valves

· Process control manifolds

Medium pressure fittings & valves

Key Markets



FLUID & GAS HANDLING

- **Key Markets**
- Aerospace Agriculture
- Bulk chemical handling
- Construction machinery
- · Food & beverage
- · Fuel & gas delivery
- · Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

Key Products

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- Diagnostic equipment
- · Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing
- & plastic fittings
 Rubber & thermoplastic hose
- & couplings

Parke

- Tube fittings & adapters
- Quick disconnects



- Key Markets
- Aerospace
- Aerial lift
- Agriculture
- Construction machinery
- Forestry
- Industrial machinery
- Mining • Oil & gas
- Power generation & energy
- Truck hydraulics

Kev Products

- Diagnostic equipment
- · Hydraulic cylinders & accumulators Hydraulic motors & pumps

Hydraulic valves & controls

Rubber & thermoplastic hose

• Tube fittings & adapters

· Quick disconnects

· Hydraulic systems

Power take-offs

& couplings

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