

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).



- Pilot operated solenoid valve
- Exclusive diaphragm design
- For water, steam, light oils
- High flow rate
- Fast reaction time
- Easy and quick maintenance

Operating information

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

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

2/2 Normally Closed - BSP threads

NBR Seals (Max. Media Temp. 90°C)

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

2/2 Normally Open - BSPP threads

NBR Seals (Max. Media Temp. 90°C)

Port Size G	Orifice mm	Flow Factors m ³ /h l/min	Minimum Pressure	Maximum Differential	Weight Kg	Manual Control	Speed Control Pressure	Description	Order Code	Dimensional Drawing
3/8"	13	3.0 49.98	0.1	20	0.55	-	-	7322BIN00	443805W	
1/2"	13	3.0 49.98	0.1	20	0.58	-	-	7322BAN00	443806W	
3/4"	20	8.4 139.94	0.1	20	1.02	-	-	7322BCN00	443807W	
1"	25	9.6 159.94	0.1	20	1.08	-	-	7322BDN00	443808W	14
1 1/4"	35	25.2 419.83	0.1	10	3.15	-	-	7322BEN00	443809W	
1 1/2"	40	30.0 499.80	0.1	10	2.90	-	-	7322BFN00	443810W	
2"	50	37.2 619.75	0.1	10	4.30	-	-	7322BGN00	443811W	
2 1/2"	65	66.0 1099.56	0.2	10	13.60	-	x	7322BLN06	444513W	
3"	75	80.0 1332.80	0.2	10	11.90	-	x	7322BMN06	444503W	

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

Please note that FKM and EPDM seals are available on request.



2/2 Normally Closed - NPT threads

NBR Seals (Max. Media Temp. 90°C)

Port Size NPT	Orifice		Flow Factors		Minimum Pressure		Maximum Differential		Weight		Description	Order Code	Dimensional Drawing
	mm	inch	m ³ /h	gpm	bar	PSI	bar	PSI	Kg	lbs			
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 from 1 1/4" to 3" 16 bar

2/2 Normally Open - NPT threads

NBR Seals (Max. Media Temp. 90°C)

Port Size NPT	Orifice		Flow Factors		Minimum Pressure		Maximum Differential		Weight		Description	Order Code
	mm	inch	m ³ /h	gpm	bar	PSI	bar	PSI	Kg	lbs		
3/8"	13	0.51	3.0	13.23	0.1	1.45	20	290	0.55	1.21	7322BIN90	444234W
1/2"	13	0.51	3.0	13.23	0.1	1.45	20	290	0.55	1.21	7322BAN90	444610W
3/4"	20	0.78	8.4	37.04	0.1	1.45	20	290	1.02	2.24	7322BCN90	444611W
1"	25	0.98	9.6	42.34	0.1	1.45	20	290	1.08	2.38	7322BDN90	444612W
1 1/4"	35	1.37	25.2	111.13	0.1	1.45	10	145	3.15	6.93	7322BEN90	444302W

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

Please note that FKM and EPDM seals are available on request.



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	Order Code
24/50	8 W	-	481865A2	439500
48/50	8 W	-	481865A4	439515
110/50	8 W	-	481865A5	439514
220-230/50	8 W	-	4818653D	439502
380/50	8 W	-	481865A9	439531
24/60	8 W	-	481865B2	439804
230/60	8 W	-	481865J3	439530
115/60	8 W	-	481865K8	439528
12 DC	9 W	-	481865C1	439508
24 DC	9 W	-	481865C2	439501
48DC	9 W	-	481865C4	439523
110V DC	9 W	-	481865C5	439532

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	Order Code
12/50-60	9 W	-	4835101W	439812
24/50-60	9 W	-	483510P0	439503
48/50-60	9 W	-	483510S4	439526
110-115/50 120/60	9 W	-	483510S5	439507
220-240/50 240/60	9 W	-	483510S6	439504

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	Order Code
24/60	13 W	UL	491514B2	439511
24DC	16 W	UL/VDE	491514C2	439520
110/50 120/60	13 W	UL	491514P3	439512
220/50 240/60	13 W	UL	491514Q3	439513

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.

Voltage	Power Consumption	Approvals	Description	Order Code
24/50	14 W	-	492425A2	439550
110/50	14 W	-	492425A5	439551
230/50	14 W	-	492425F4	439518
24DC	14 W	-	492425C2	439522

Accessories

Connector 2P + E DIN 43650 A

Max. A	Cable Section	Nominal Voltage	Description	Order Code	Drawing Reference
16 A	6-10 mm ²	250-/300 V =	PG9/PG11 DIN Connector	600003PLUG	14

