

3/2 and 5/2 SOLENOID VALVES

BNK/BPK SERIES

General Description

- Parker Fluid Control 3/2&5/2 valves are used in applications for actuation of double acting cylinders and piloting of larger control valves.
- These valves have the Direct Mount NAMUR Pad Configuration or pipe mounting configuration.
- Valves can be mounted in any position. The preferred orientation is vertical and upright.

APPLICATIONS

- Pilot Valve Actuation of Larger Control Valves
- Oil and Gas Including Off-Shore Installations
- Double Acting Cylinder Control
- Air Vices
- Air Motors
- Damper Control

GENERAL PERFORMANCE

Differential pressure : 1.8~10 Bar

Response time : <100 ms

Fluids (*) : air, inert gas

Ambient Temperature Range(TS)

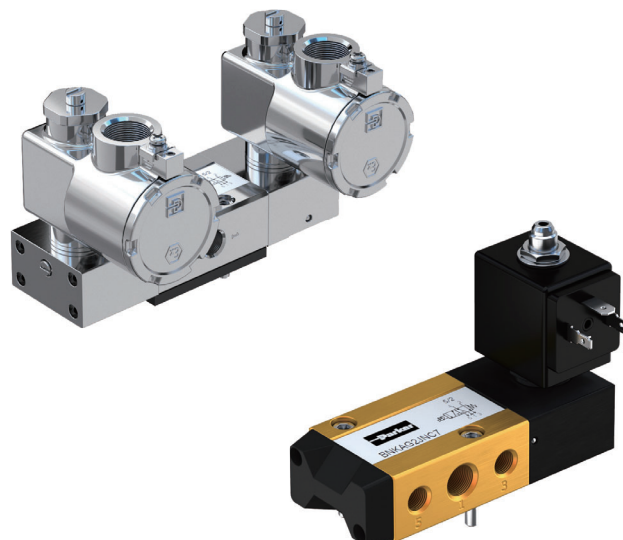
-30 +100 °C

7K	9W	Standard power coil
2K	4W	
EX	3.6W	Reduced power coil
EX	1.3W	Low power coil

Power consumption levels: cold electrical holding values(watt)
Please contact Parker sales representative
if -40°C low temperature product is required.

MECHANICAL FEATURES

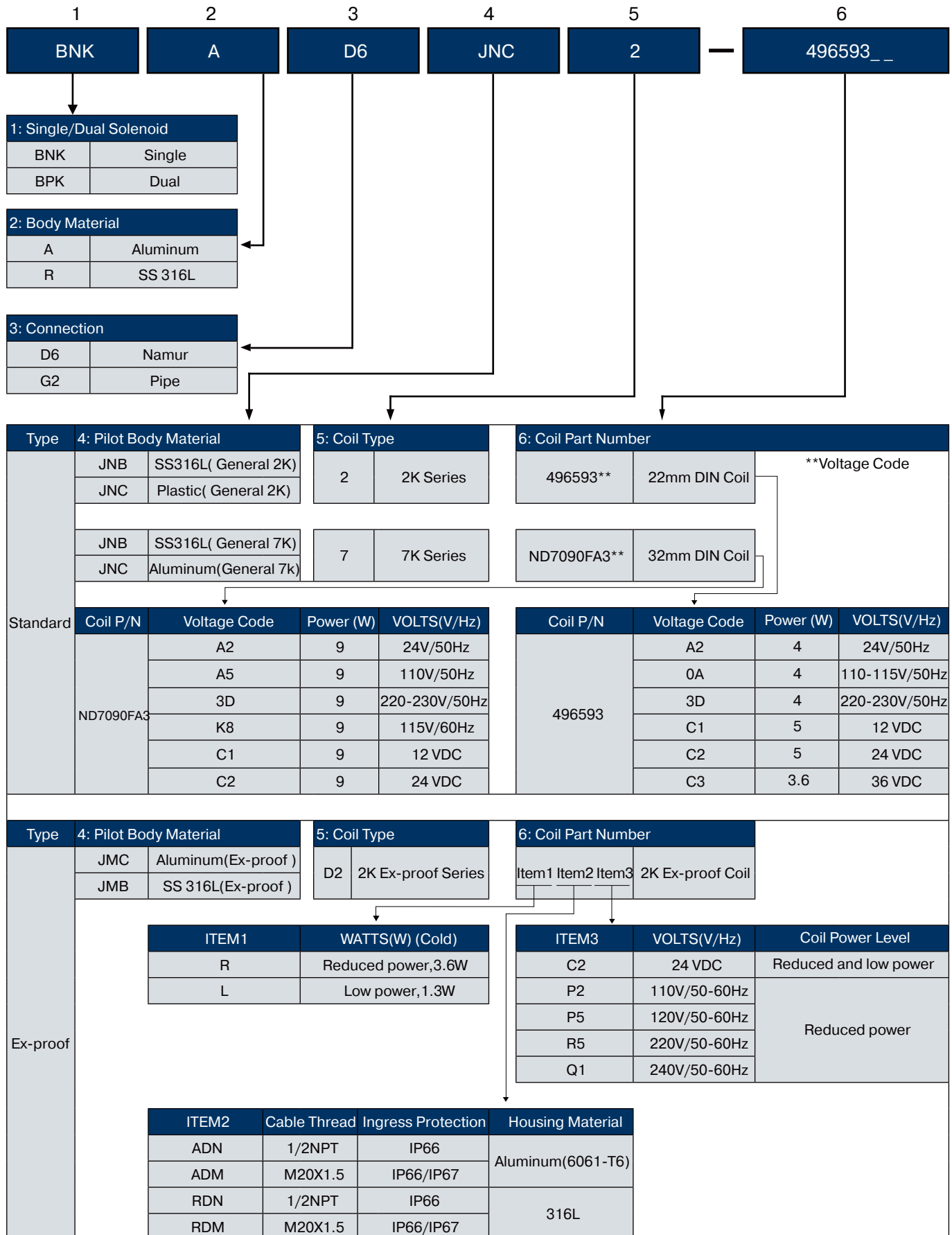
- Materials in contact with fluid
- (*)Ensure that the compatibility of the fluids in contact with the materials is verified.
- Sleeve : stainless steel
- Plunger : stainless steel
- Stopper : stainless steel
- Spring : stainless steel
- Seals : NBR / FVMQ / FKM
- Body : AL / SS316L
- Piston : POM (Plastic)



EU type examination certificate No.: LCIE 22 ATEX 3011 X
IECEx certificate of Conformity No.: IECEx LCIE 22.0025X
Low Voltage Directive 2014/35/EU, EN 60730-1:2016/A1:2019
CCC No.: 2023332307000281



Numbering System



Specifications

Vessel															
Type	Port Size	Orifice Size	Operating Pressure Differential(Bar)			Flow Factory Qn L/min(CV)	Single/ Dual Solenoid	Connection	Ambient Temp(C)	Body Material	Pilot Body Material	Vessel P/N	Dimension Drawing	Coil Type	
	BPS(G)	mm	Min	Max											
				AC	DC										
Standard	1/4"	4	2	10	10	600(0.6)	single	Pipe	-30~+100	AL	AL	BNKAG2JNC7	1	7K	
								Steel		Steel	BNKRG2JNB7				
								Namur		AL	AL	BNKAD6JNC7	2		
										Steel	Steel	BNKRD6JNB7			
							Dual	Pipe		AL	AL	BPKAG2JNC7	3		
								Steel		Steel	BPKRG2JNB7				
								Namur		AL	AL	BPKAD6JNC7	4		
										Steel	Steel	BPKRD6JNB7			
							single	Pipe		Steel	Steel	BNKRG2JNB2	5	2K	
								Namur		AL	Plastic	BNKRD6JNB2	6		
										Steel	Steel	BNKAD6JNC2			
								Dual		Pipe	Steel	Steel	BPKRG2JNB2		7
Namur	AL	Plastic	BPKRD6JNB2	8											
	Steel	Steel	BPKAD6JNC2												
Ex-proof	1/4"	4	2	10	10	600(0.6)	single		Namur	-30~+100	AL	AL	BNKAD6JMCD2		9
								Steel	Steel		BNKRD6JMBD2				
								Pipe	AL		AL	BNKAG2JMCD2	10		
									Steel		Steel	BNKRG2JMBD2			
							Dual	Namur	AL		AL	BPKAD6JMCD2	11		
								Steel	Steel		BPKRD6JMBD2				
								Pipe	AL		AL	BPKAG2JMCD2	12		
									Steel		Steel	BPKRG2JMBD2			

Note : Please contact with division if other configuration is required.

Standard Coil								
Coil Type	Picture	Connect Type	Coil Size	Insulation Class	Power(W)	P/N	Voltage(V/Hz)	Ingress Protection
2K		DIN	22mm	F	4	496593A2	24V /50Hz	IP65
						4965930A	110-115V /50Hz	
						4965933D	220 - 230 V/50Hz	
					5	496593C1	12 VDC	
						496593C2	24 VDC	
						496593C3	36 VDC	
7K		DIN	32mm	F	9	ND7090FA3A2	24V /50Hz	IP65
						ND7090FA3A5	110V /50Hz	
						ND7090FA33D	220 - 230 V/50Hz	
						ND7090FA3K8	115V /60Hz	
					9	ND7090FA3C1	12 VDC	
						ND7090FA3C2	24 VDC	

EX Coil								
Coil Type	Picture	Connect Type	Coil Size	Insulation Class	Power(W)	P/N	Voltage(V/Hz)	Ingress Protection
Ex-proof		TERMINAL	22mm	H	3.6	RADNC2	24 VDC	IP66
						RADNP2	110V /50-60Hz	
						RADNP5	120V /50-60Hz	
						RADNR5	220V /50-60	
						RADNQ1	240V /50-60	
					3.6	RRDNC2	24 VDC	
					4	RRDNP2	110V /50-60Hz	
						RRDNP5	120V /50-60Hz	
						RRDNR5	220V /50-60Hz	
						RRDNQ1	240V /50-60Hz	
					3.6	RADMC2	24 VDC	IP66/IP67
					4	RADMP2	110V /50-60Hz	
						RADMP5	120V /50-60Hz	
						RADMR5	220V /50-60Hz	
						RADMQ1	240V /50-60Hz	
					3.6	RRDMC2	24 VDC	
					4	RRDMP2	110V /50-60Hz	
						RRDMP5	120V /50-60Hz	
						RRDMR5	220V /50-60Hz	
						RRDMQ1	240V /50-60Hz	
					1.3	LADNC2	24 VDC	IP66
						LADMC2	24 VDC	IP66/IP67
						LRDNC2	24 VDC	IP66
						LRDMC2	24 VDC	IP66/IP67

2K(EX) Coils, Explosion Safety code & Power Consumption

Coil insulation class: H

Electrical safety: EN 60730-1

Standard voltages: DC(=) 24V;available voltage variation ±10%

AC(~)110V-240V/50-60Hz, Other voltage are available on request

Coil specification	Reduced power(RP)	Low power(LP)
	3.6W (cold)	1.3W (cold)
Safety code	Ex db IIC T6...T4 Gb	
	Ex tb IIIC T80C ...T130C	
Electrical enclosure protection(EN60529)	IP66/67	
Operator ambient temperature(°C)	-40 to +52/65/100°C	

Explanation of Temperature Ranges of Solenoid Valves

(1) Valve temperature range:

The valve temperature range (TS) is determined by the selected seal material, the temperature range for proper operation of the valve and sometimes by the fluid.

(2) Operator ambient temperature range:

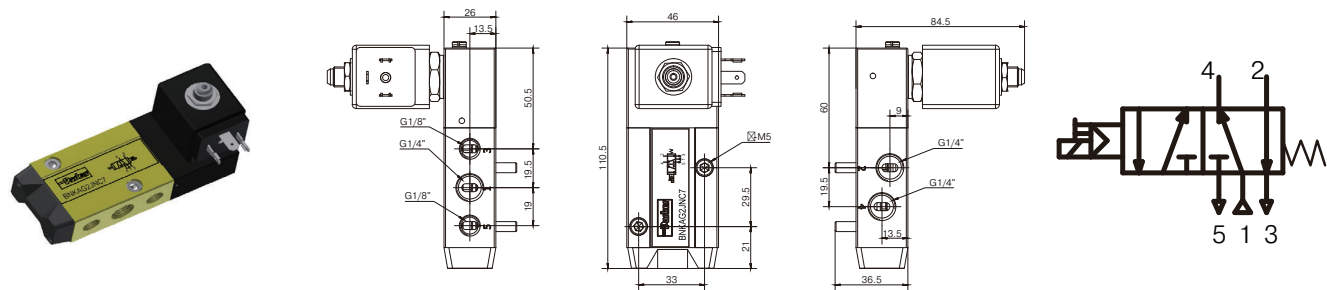
The operator ambient temperature range is determined by the selected power level and the safety code.

Total temperature range:

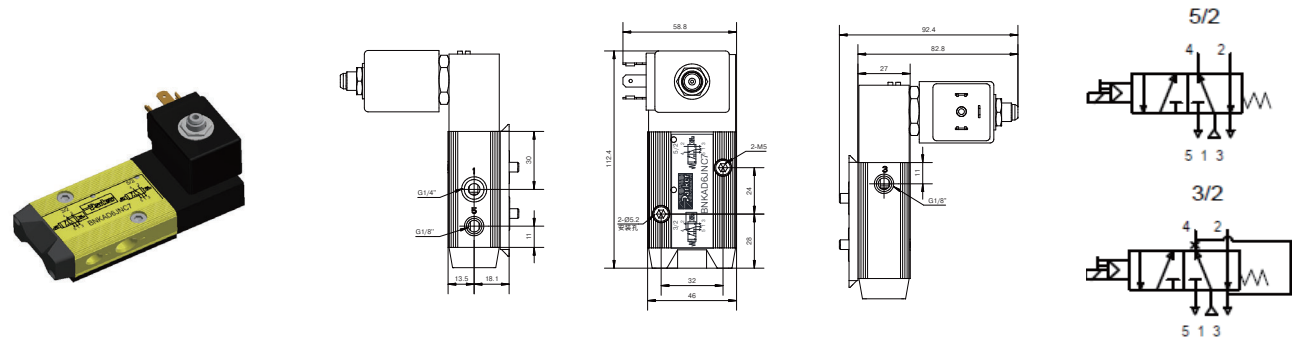
The temperature range of the complete solenoid valve is determined by the limitations of both temperature ranges above.

Dimensions(mm)

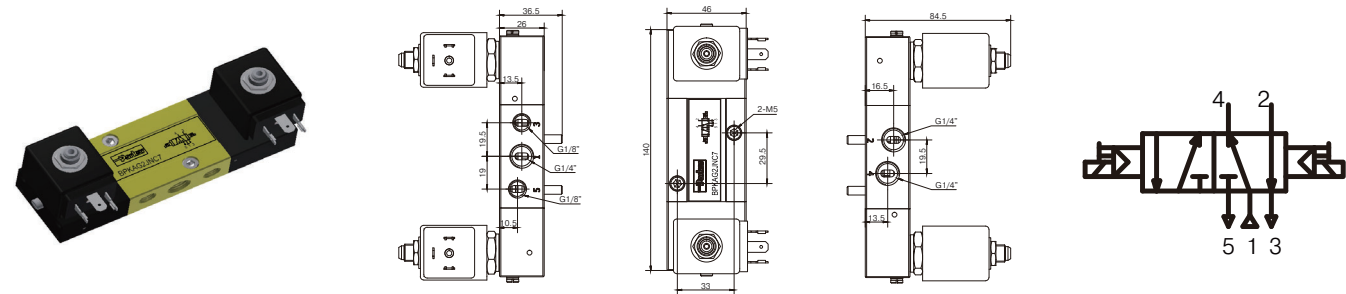
1、BNKAG2JNC7,BNKR2JNB7



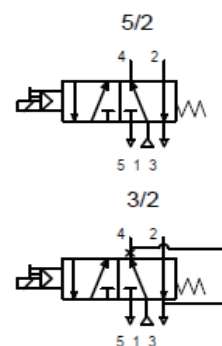
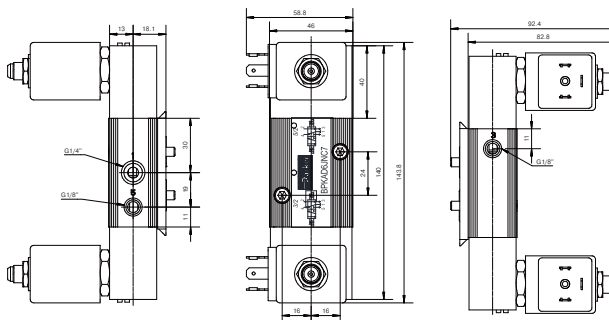
2、BNKAD6JNC7,BNKR6JNB7



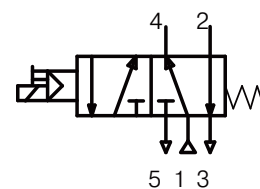
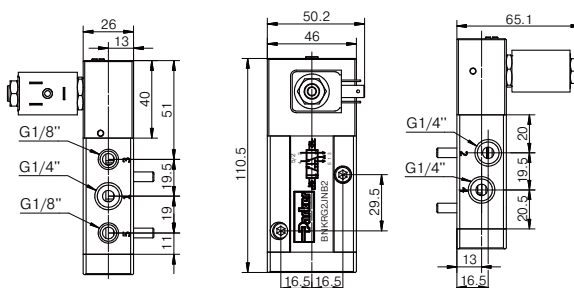
3、BPKAG2JNC7,BPKRG2JNB7



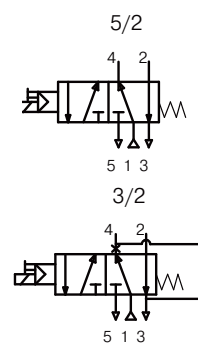
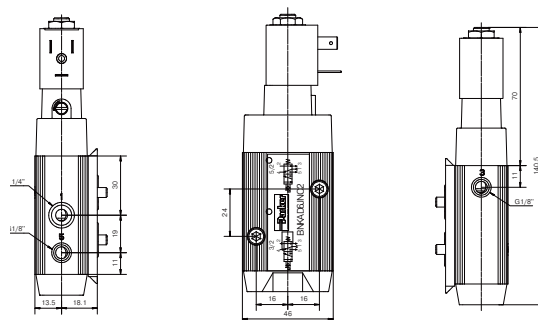
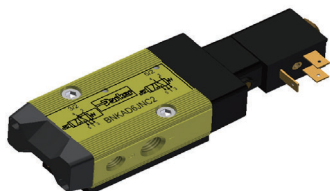
4、BPKAD6JNC7,BPKRD6JNB7



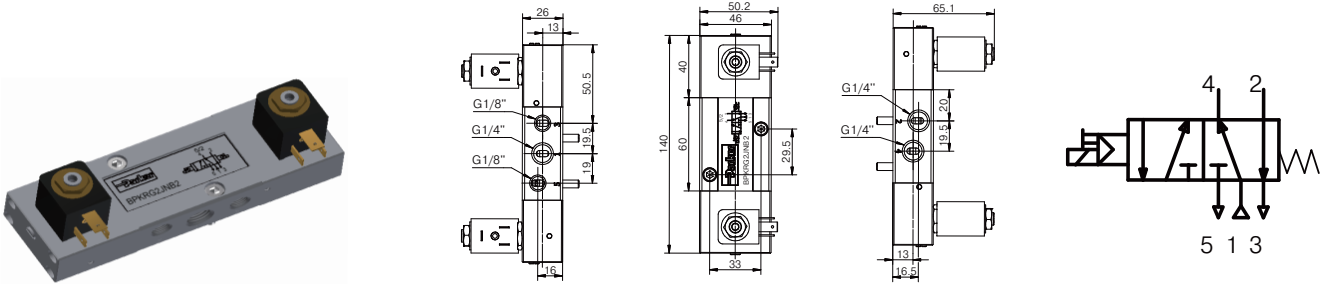
5、BNKAG2JNC2,BNKR2JNB2



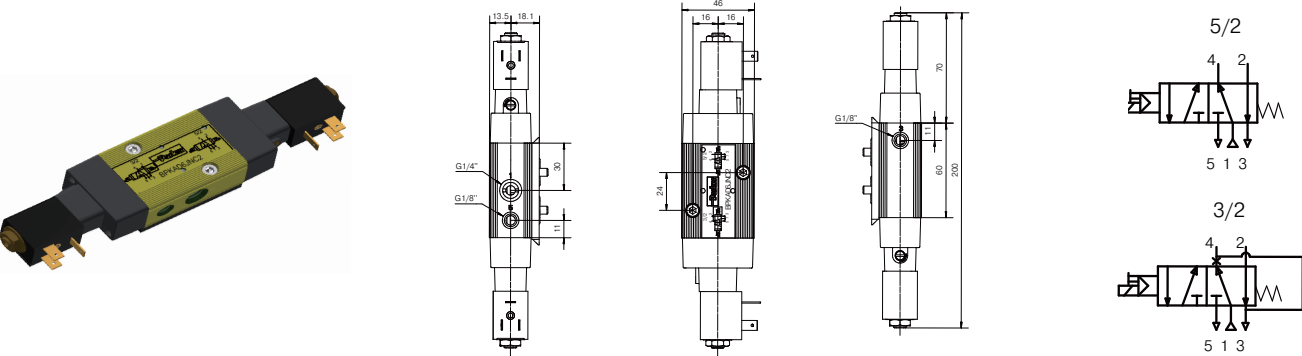
6、BNKAD6JNC2,BNKR2JNB2



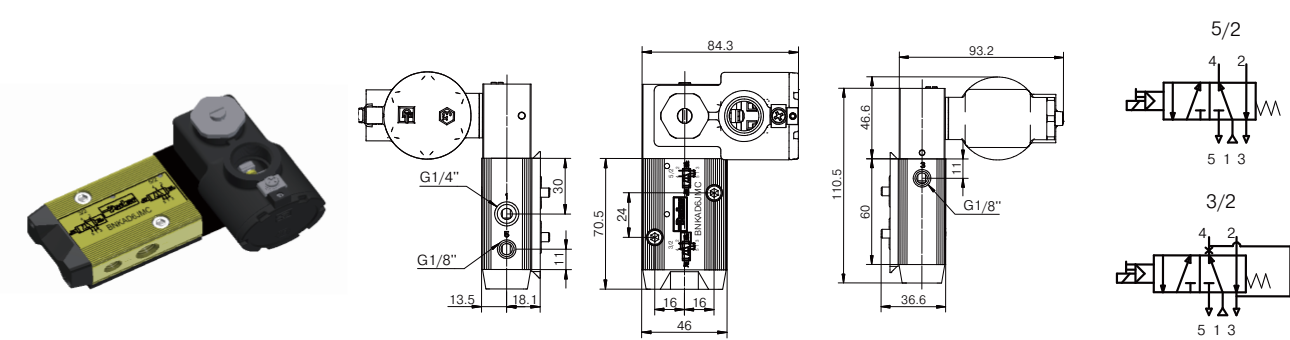
7、BPKAG2JNC2,BPKRG2JNB2



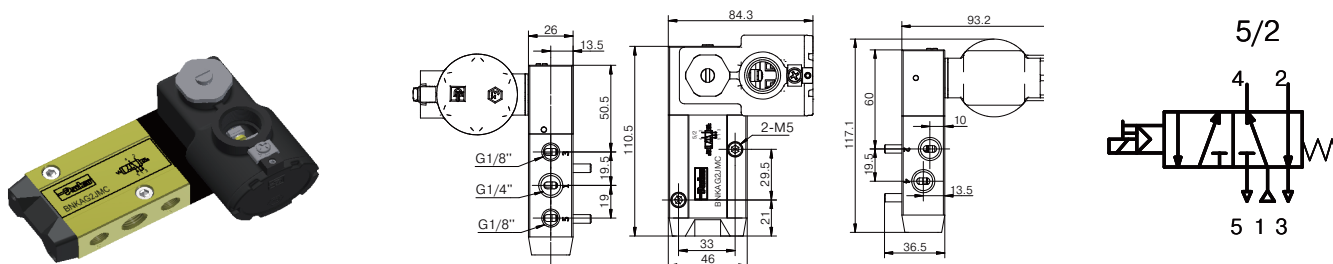
8、BPKAD6JNC2,BPKRD6JNB2



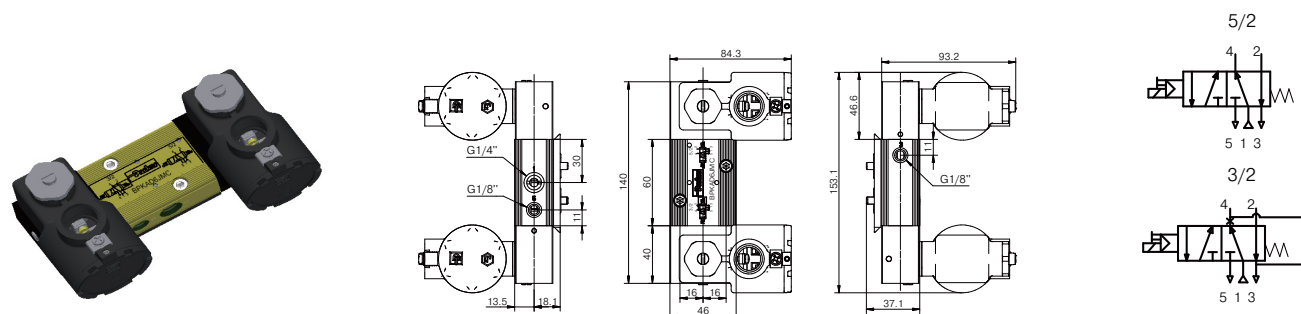
9、BNKAD6JMCD2,BNKR6JMBD2



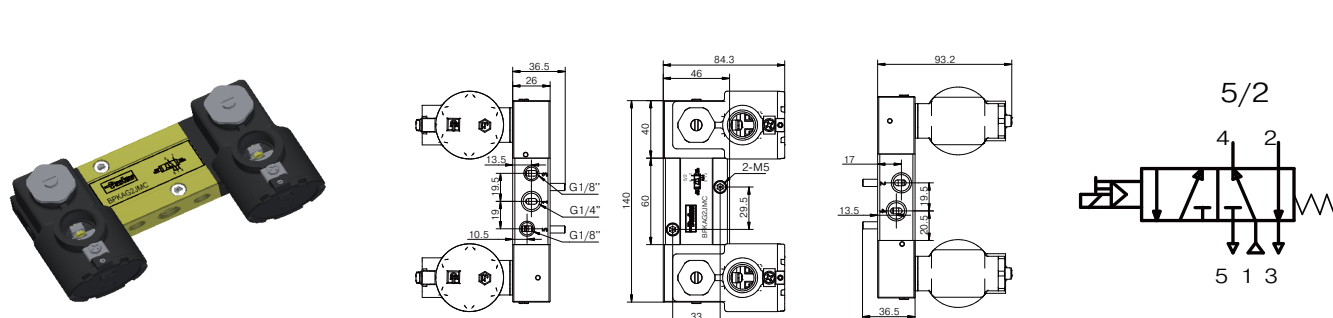
10. BNKAG2JMCD2, BNKRG2JMCD2



11. BPKAD6JMCD2, BPKRD6JMCD2



12. BPKAG2JMCD2, BPKRG2JMCD2



联系信息:

派克汉尼汾公司
流体连接件集团
Tel: 021-28990000
www.parker.com/china

Parker Hannifin Fluid Connectors China
Changzhou Business Unit

18 Huashan Road, Xinbei District,
Changzhou, Jiangsu 213062 China
Tel: +86 0519-89807217
www.parker.com

© 2026 Parker Hannifin Corporation

