



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



B Series Valves

High Flow Inline, Manifold Mounted,
Solenoid & Pilot Operated

G1/8 and G1/4 Body ported

Catalogue PDE2582TCUK-ca. Edition July 09



ENGINEERING YOUR SUCCESS.

Directional Control Valves

B Series

Compact installation dimensions - flexible installation



Compact dimensions, direct body porting and integral mounting holes are all features of the B series valve range. Valves may be mounted singly or on compact modular manifolds that can be extended to accommodate changes in the machine control system.

Manifold mounting



IEM stackable manifold system is designed to give maximum flexibility to system designers. Individual manifold bases stack together to form lightweight custom length manifold that can easily be modified to accommodate changes to system requirements.

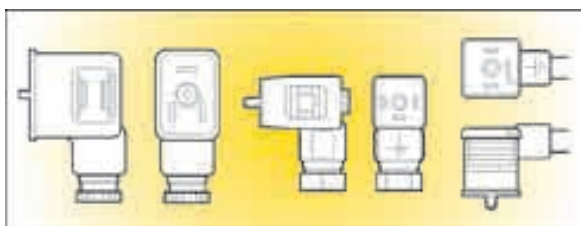
High reliability

Valves easily comply with the requirements for component reliability in accordance with EU Machinery Directive standards EN292-2 and EN983.

A wide range of solenoid valves

Solenoid operated versions of the B3 & B4 valves are fitted with interface to accept the 15mm wide solenoid and Form C / ISO 15217 connector. The valve has small installation dimensions, low energy consumption. The B5 is also available with the 22mm wide solenoid suitable for (EN175301-803 form B) connector. The solenoid operators are available with or without manual overrides.

Different solenoid connector options



A large range of solenoid connectors are available with or without suppression, LED and rectifier and complete with moulded lead.

Maintenance

All B series valves have reliable function and long service life. Spare solenoid and repair kits are available.



WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS 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 and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

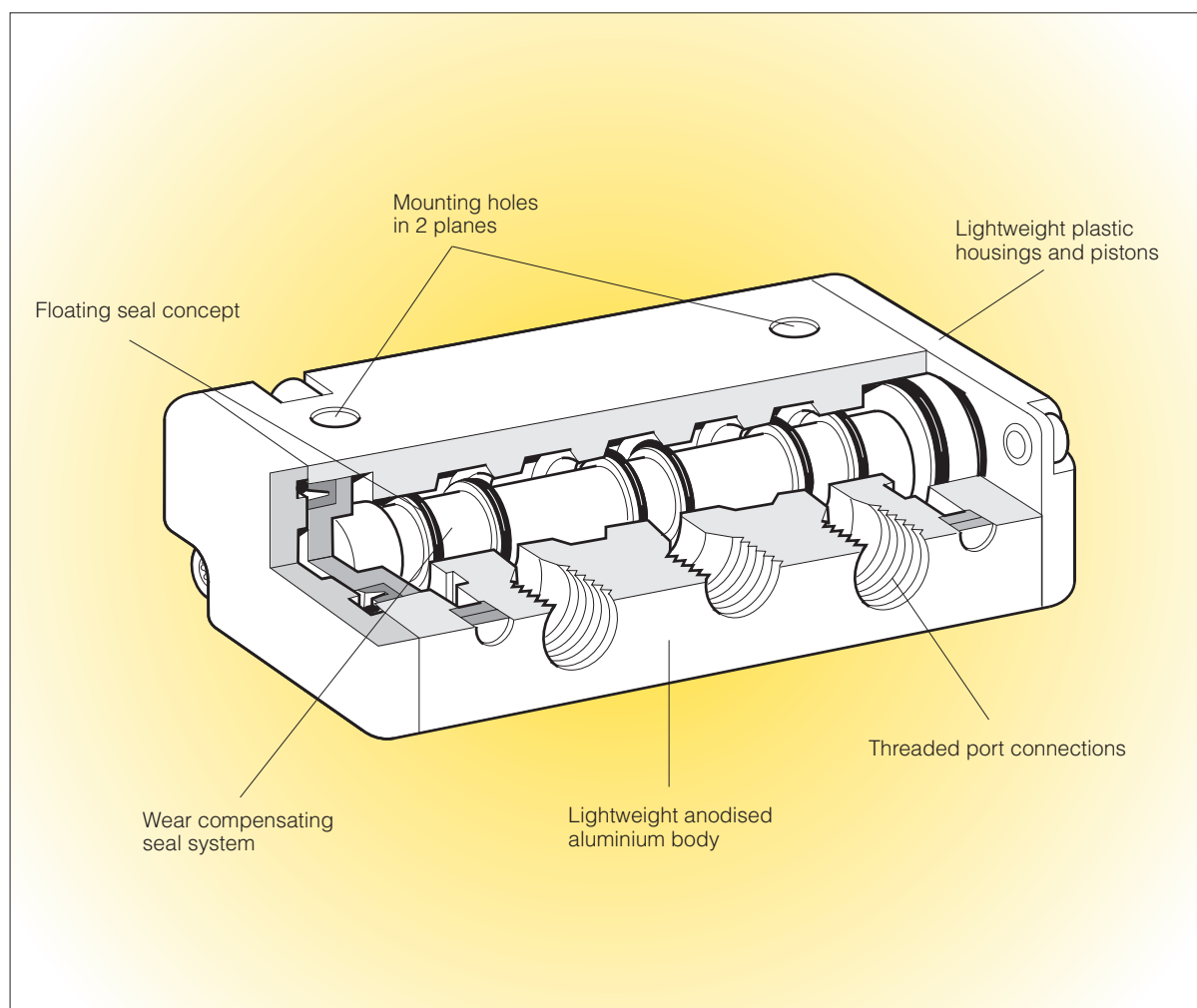
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Directional Control Valves

B Series



“Wear Compensating System”

The B series valves are fitted with dynamic bi-directional spool seals suitable for vacuum or pressures up to 10 bar. Under pressure radial expansion of the seal occurs to maintain sealing contact with the valve bore.

This sealing method reduces friction gives lower pilot pressures, fast response and less wear. Valves do not require lubrication in operation but they can also be installed in systems that are lubricated.

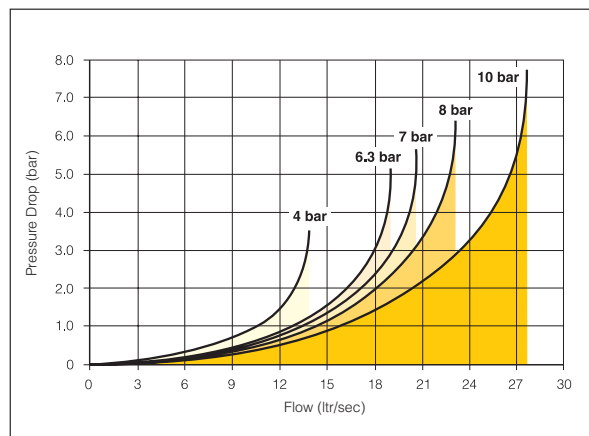
Flow Characteristics

B Series

Flow characteristics

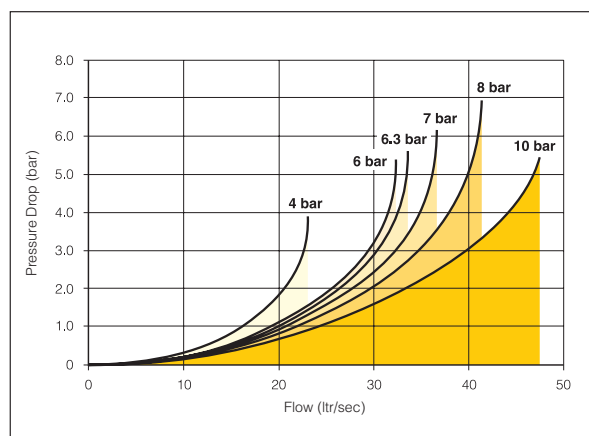
Flow capacities in accordance with ISO6358
All pressures = effective pressure
The curves in the diagram below are typical only

Technical Data B3



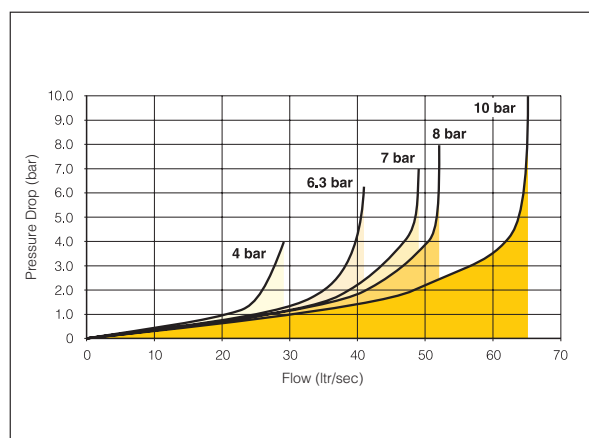
Port size	G1/8
Operating pressure.	Vacuum - 10 bar
Working temperature.	
Pneumatically operated valves.	-10°C to + 50°C
Solenoid operated valves.	-10°C to + 50°C
Response times:	
Single sol spring return	24/26ms
Single sol air spring return	13/15ms
Double solenoid operated	
Flow (acc. to ISO 6358)	c = 2.3 b = 0.45 Qn = 13 l/s Qmax = 16 l/s Cv = 0.75

Technical Data B4



Port size	G1/4
Operating pressure.	Vacuum - 10 bar
Working temperature.	
Pneumatically operated valves.	-10°C to + 50°C
Solenoid operated valves.	-10°C to + 50°C
Response times:	
Single sol spring return	38/38ms
Single sol air spring return	23/24ms
Double solenoid operated	
Flow (acc. to ISO 6358)	c = 4.56 b = 0.30 Qn = 19.5 l/s Qmax = 32 l/s Cv = 1.2

Technical Data B5



Port size	G1/4
Operating pressure.	Vacuum - 10 bar
Working temperature.	
Pneumatically operated valves.	-10°C to + 50°C
Solenoid operated valves.	-10°C to + 50°C
Response times:	
Single sol spring return	38/40ms
Single sol air spring return	16/18ms
Double solenoid operated	
Flow (acc. to ISO 6358)	Qn = 24 l/s Qmax = 37 l/s Cv = 1.4

Directional Control Valves

B Series

B3 valve

Valve body	Anodised aluminium
End covers	Anodised aluminium or Reinforced thermoplastic
Spool	Aluminium + nitrile rubber
Piston	Acetal plastic/ Anodised aluminium
U-rings, O-rings	Nitrile rubber
End cover sealings	Nitrile rubber
End cover screws	Stainless steel
Springs	Dacromet® - processed steel, Stainless steel
Mounting screws for solenoid	Stainless steel

B3 Accessories

IEM manifold	Glass filled nylon
End plates	Anodised aluminium
Manifold connecting screws	Zinc plated steel

B5 valve

Valve body	Anodised aluminium
Spool	Aluminium + nitrile rubber
Piston	Brass
Lining	Brass
End covers	Anodised aluminium
Sliding seals	Thermoplastic
U-rings, O-rings	Nitrile rubber
End cover sealings	Nitrile rubber
End cover screws	Stainless steel
Springs	Stainless steel
Mounting screws for solenoid	Zinc plated steel

B5 Accessories

IEM manifold	Glass filled nylon
End plates	Anodised aluminium
Manifold connecting screws	Zinc plated steel

B4 valve

Valve body	Anodised aluminium
Spool	Acetal plastic/ Anodised aluminium
Piston	Acetal plastic /Anodised aluminium
Lining	Reinforced thermoplastic
End covers	Anodised aluminium
Sliding seals	Thermoplastic
U-rings, O-rings	Nitrile rubber
End cover sealings	Nitrile rubber
Push button for manual changeover	Acetal plastic
End cover screws	Stainless steel
Springs	Stainless steel
Mounting screws for solenoid	Zinc-plated steel

B4 Accessories

IEM manifold	Glass filled nylon
End plates	Anodised aluminium
Manifold connecting screws	Zinc plated steel



Metal Spool Valves

B3

- G1/8 ports, 3/2, 5/2 and 5/3 functions
- Inlet-exhaust manifold facility
- DIN rail mounting
- Integral mounting holes
- 1.2 watt solenoid actuators
- FormC/ISO15217 connector



Operating information

Working pressure	Vacuum - 10 bar	Flow (3/2) and (5/2) (acc. to ISO 6358)	C = 2,3
Working temperature;			b = 0,45
Pneumatically actuated	-10°C to +60°C		Qn = 13 l/s
Electrically actuated	-10°C to +50°C		Qmax = 16 l/s
			Cv = 0,6




























B	3	2	5	B	B	5	49	H																																																												
Basic series B3 Ported valve		Port size 5 G1/8		Pilot source / Exh / Pilot exhaust 0 None (Air pilot only) B Port 1 / Vented / Side																																																																
Operator function 3 Port <table border="1"> <tr><td>G</td><td></td><td>3/2 N/C Single sol - air differential return</td></tr> <tr><td>J</td><td></td><td>3/2 Double solenoid</td></tr> <tr><td>K</td><td></td><td>3/2 N/C Remote air pilot - air differential return</td></tr> <tr><td>M</td><td></td><td>3/2 Double remote air pilot</td></tr> <tr><td>R</td><td></td><td>3/2 N/C Single sol - spring return</td></tr> <tr><td>S</td><td></td><td>3/2 N/C Single sol - remote air pilot return</td></tr> <tr><td>U</td><td></td><td>3/2 N/C Remote air pilot - spring return</td></tr> </table> 5 Port <table border="1"> <tr><td>1</td><td></td><td>5/2 Single sol - air differential return</td></tr> <tr><td>2</td><td></td><td>5/2 Double solenoid</td></tr> <tr><td>3</td><td></td><td>5/2 Remote air pilot - air differential return</td></tr> <tr><td>4</td><td></td><td>5/2 Double remote air pilot</td></tr> <tr><td>5</td><td></td><td>5/3 Double solenoid - all ports blocked (APB)</td></tr> <tr><td>6</td><td></td><td>5/3 Double solenoid - cyl to exhaust ports (CE)</td></tr> <tr><td>7</td><td></td><td>5/3 Double solenoid - press to cylinder ports (PC)</td></tr> <tr><td>8</td><td></td><td>5/3 Double remote operated - all ports blocked (APB)</td></tr> <tr><td>9</td><td></td><td>5/3 Double remote operated - (CE) ①</td></tr> <tr><td>0</td><td></td><td>5/3 Double remote operated - (PC) ②</td></tr> <tr><td>A</td><td></td><td>5/2 Single sol - remote air pilot return</td></tr> <tr><td>P</td><td></td><td>5/2 Remote air pilot - spring return</td></tr> <tr><td>T</td><td></td><td>5/2 Single sol - spring return</td></tr> </table>				G		3/2 N/C Single sol - air differential return	J		3/2 Double solenoid	K		3/2 N/C Remote air pilot - air differential return	M		3/2 Double remote air pilot	R		3/2 N/C Single sol - spring return	S		3/2 N/C Single sol - remote air pilot return	U		3/2 N/C Remote air pilot - spring return	1		5/2 Single sol - air differential return	2		5/2 Double solenoid	3		5/2 Remote air pilot - air differential return	4		5/2 Double remote air pilot	5		5/3 Double solenoid - all ports blocked (APB)	6		5/3 Double solenoid - cyl to exhaust ports (CE)	7		5/3 Double solenoid - press to cylinder ports (PC)	8		5/3 Double remote operated - all ports blocked (APB)	9		5/3 Double remote operated - (CE) ①	0		5/3 Double remote operated - (PC) ②	A		5/2 Single sol - remote air pilot return	P		5/2 Remote air pilot - spring return	T		5/2 Single sol - spring return	Solenoid overrides / Lights 0 None (Air pilot only) B Spring return, flush without light C Locking, flush without light X None (Solenoid valve less solenoid)				
G		3/2 N/C Single sol - air differential return																																																																		
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Solenoid Enclosures 0 None (Air pilot only) 5 15mm connector X None				Pilot operator / Coil voltage¹ 39 12V 50Hz 43 24V 50Hz 44 48V 50Hz 45 12V DC 49 24V DC 53 110V 50Hz 57 220V 50Hz XX Valve less solenoid operator																																																																
Shaded part numbers are standard				Engineering level H ① Cyl to exhaust ports (CE) ② Press to cylinder ports (PC)																																																																

¹ Shaded part numbers are standard
 Unshaded part numbers are available on request but will be
 subject to minimum order quantities
 Otherwise order XX version and order solenoid separately.

Metal Spool Valves

B3

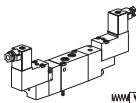
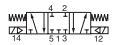
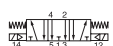
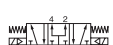
Main data for Directional control valves, B3 Series

Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
Pneumatically actuated 3/2 valves								
		Air	Differential air	1,4/-	16/17	0,07	B3K5000XXH	1
		Air	Spring return	3,0/-	20/18	0,07	B3U5000XXH	1
		Air	Air	1,4/-	2/2	0,08	B3M5000XXH	1
Pneumatically actuated 5/2 and 5/3 valves								
		Air	Differential air	1,4/-	16/17	0,09	B335000XXH	1
		Air	Spring return	3,0/-	20/18	0,09	B3P5000XXH	1
		Air	Air	1,4/1,4	2/2	0,10	B345000XXH	1
		Air	Air	3,0/3,0	12/12	0,10	B385000XXH	1
		Closed centre position	Self centring					
		Air	Air	3,0/3,0	12/12	0,10	B395000XXH	1
		Vented centre position	Self centring					
		Air	Air	3,0/3,0	12/12	0,10	B305000XXH	1
		Pressurised centre position	Self centring					
Electrically actuated 3/2 valves								
		Electric	Differential air	1,4/-	12/14	0,12 0,08	B3G5BB549H B3G5BXXXXH	1 1
		Electric	Spring return	3,0/-	22/28	0,12 0,08	B3R5BB549H B3R5BXXXXH	1 1
		Electric	Air	1,4/1/4	9/3	0,13 0,09	B3S5BB549H B3S5BXXXXH	1 1
		Electric	Electric	1,4/1/4	8/8	0,13 0,09	B3J5BB549H B3J5BXXXXH	1 1
Electrically actuated 5/2 valves								
		Electric	Differential	1,4/-	12/14	0,12	B315BB549H	1
		Air	Air			0,09	B315BXXXXH	1
		Electric	Spring return	3,0/-	22/28	0,12 0,09	B3T5BB549H B3T5BXXXXH	1 1
		Electric	Air	1,4/1/4	9/3	0,14 0,10	B3A5BB549H B3A5BXXXXH	1 1
		Electric	Electric	1,4/1/4	8/8	0,19 0,10	B325BB549H B325BXXXXH	1 1

Metal Spool Valves

B3

Main data for Directional control valves, B3 Series

Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
Electrically actuated 5/3 valves								
 	Electric	Electric	3,0/3,0	12/12	0,18	24 VDC	B355BB549H	1
	Closed centre	Self centring			0,09	Less solenoid	B355BXXXXH	1
	position							
	Electric	Electric	3,0/3,0	12/12	0,18	24 VDC	B365BB549H	1
	Vented centre	Self centring			0,09	Less solenoid	B365BXXXXH	1
	position							
	Electric	Electric	3,0/3,0	12/12	0,10	24 VDC	B375BB549H	1
	Pressurised	Self centring			0,09	Less solenoid	B375BXXXXH	1
	centre position							

Internal air supply to differential pilots and solenoids via port 1

Silencers and push-in fittings are shown on page 27.

Valves supplied with solenoid operators include standard P8C-D connector

Metal Spool Valves

B3

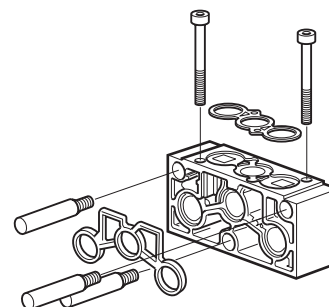
Inlet Exhaust Manifolds for B3 series valves

Standard Base without Flow Controls

Each kit contains:

- 1 pcs Manifold Base
- 2 pcs Mounting screws and nuts
- 3 pcs Tie Rods
- 1 pcs Body-to-base Gasket and
- 1 pcs Base-to-Base Gasket

		Order code	Qty
Manifold Base	3/2 =	PS2948F	1
Kit	5/2 =	PS2917F	1



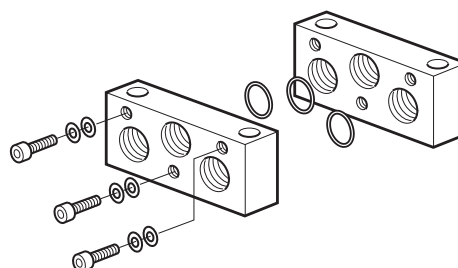
End plates

Standard End Plates may be used with either of above Manifold Bases

Each kit contains:

- 1 right and 1 left End Plate
- 3 pcs O-Rings
- 3 pcs Blanking Plugs
- 3 pcs Socket Head Cap Screws
- 3 pcs Flat Washers
- 3 pcs Lockwashers

		Order code	Qty
Manifold End	3/2 =	PS2951F	1
plate kit	5/2 =	PS2916F	1



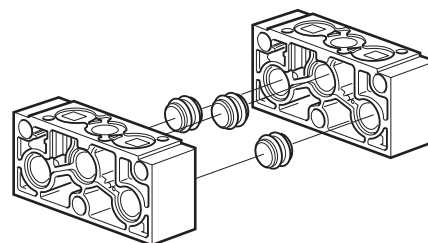
Isolator Plug Kit

Used to isolate the 1, 3 or 5 gallery between two Manifold Bases

Each kit contains:

- 3 pcs Isolator Plugs complete with O-rings.

		Order code	Qty
Isolator Plug Kit		PS2919F	1



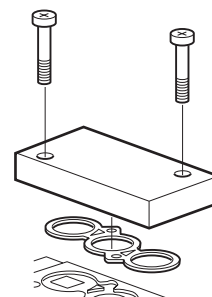
Manifold Blanking Plate

Each kit contains:

- 1 pcs Cover Plate
- 2 pcs Mounting Screws
- 1 pcs Gasket

Used to blank off unused stations.

		Order code	Qty
Manifold	3/2 =	PS2968F	1
Blanking Plate	5/2 =	PS2969F	1

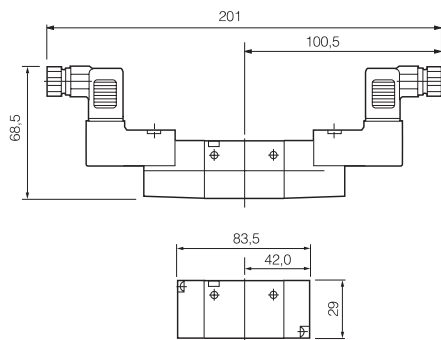


Metal Spool Valves

B3

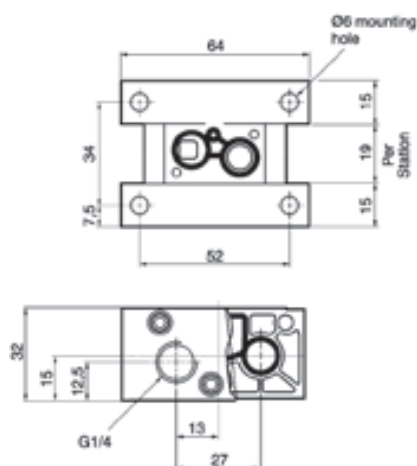
Dimensions, B3 Valve Series

5/3 Body ported

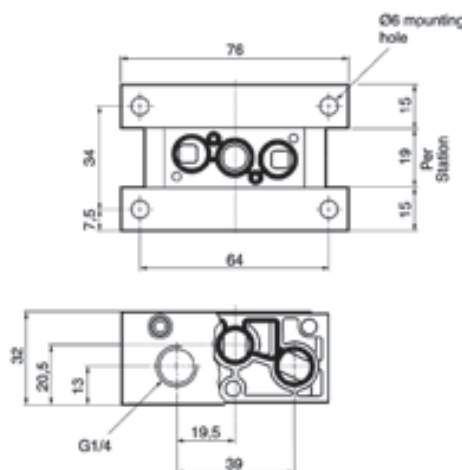


Manifolds - IEM Inlet Exhaust Manifold System

3/2 Inlet Exhaust Manifold For B3 Body Ported Valves



5/2 Inlet Exhaust Manifold For B3 Body Ported Valves



All dimensions in mm unless otherwise stated

Metal Spool Valves

B4

- G1/4 ports, 3/2, 5/2 and 5/3 functions
- Inlet-exhaust manifold facility
- DIN rail mounting
- Integral mounting holes
- 1.2 watt solenoid actuators
- Form C / ISO 15217 connector



Operating information

Working pressure	Max 10 bar	Flow (3/2) and (5/2) (acc. to ISO 6358)	C = 4,56
Working temperature;			b = 0,30
Pneumatically actuated	-10°C to +60°C		Qn = 19,5 l/s
Electrically actuated	-10°C to +50°C		Cv = 1,2

























B	4	2	6	A	B	5	49	F																																																												
Basic series B4 Ported valve		Port size 6 G1/4		Pilot source / Exh / Pilot exhaust 0 None (Air pilot only) A Port 1 / Tapped / Side																																																																
Operator function 3 Port <table border="1"> <tr><td>G</td><td></td><td>3/2 N/C Single sol - air differential return</td></tr> <tr><td>J</td><td></td><td>3/2 Double solenoid</td></tr> <tr><td>K</td><td></td><td>3/2 N/C Remote air pilot - air differential return</td></tr> <tr><td>M</td><td></td><td>3/2 Double remote air pilot</td></tr> <tr><td>R</td><td></td><td>3/2 N/C Single sol - spring return</td></tr> <tr><td>S</td><td></td><td>3/2 N/C Single sol - remote air pilot return</td></tr> <tr><td>U</td><td></td><td>3/2 N/C Remote air pilot - spring return</td></tr> </table> 5 Port <table border="1"> <tr><td>1</td><td></td><td>5/2 Single sol - air differential return</td></tr> <tr><td>2</td><td></td><td>5/2 Double solenoid</td></tr> <tr><td>3</td><td></td><td>5/2 Remote air pilot - air differential return</td></tr> <tr><td>4</td><td></td><td>5/2 Double remote air pilot</td></tr> <tr><td>5</td><td></td><td>5/3 Double solenoid - all ports blocked (APB)</td></tr> <tr><td>6</td><td></td><td>5/3 Double solenoid - cyl to exhaust ports (CE)</td></tr> <tr><td>7</td><td></td><td>5/3 Double solenoid - press to cylinder ports (PC)</td></tr> <tr><td>8</td><td></td><td>5/3 Double remote operated - all ports blocked (APB)</td></tr> <tr><td>9</td><td></td><td>5/3 Double remote operated - (CE) ①</td></tr> <tr><td>0</td><td></td><td>5/3 Double remote operated - (PC) ②</td></tr> <tr><td>A</td><td></td><td>5/2 Single sol - remote air pilot return</td></tr> <tr><td>P</td><td></td><td>5/2 Remote air pilot - spring return</td></tr> <tr><td>T</td><td></td><td>5/2 Single sol - spring return</td></tr> </table>				G		3/2 N/C Single sol - air differential return	J		3/2 Double solenoid	K		3/2 N/C Remote air pilot - air differential return	M		3/2 Double remote air pilot	R		3/2 N/C Single sol - spring return	S		3/2 N/C Single sol - remote air pilot return	U		3/2 N/C Remote air pilot - spring return	1		5/2 Single sol - air differential return	2		5/2 Double solenoid	3		5/2 Remote air pilot - air differential return	4		5/2 Double remote air pilot	5		5/3 Double solenoid - all ports blocked (APB)	6		5/3 Double solenoid - cyl to exhaust ports (CE)	7		5/3 Double solenoid - press to cylinder ports (PC)	8		5/3 Double remote operated - all ports blocked (APB)	9		5/3 Double remote operated - (CE) ①	0		5/3 Double remote operated - (PC) ②	A		5/2 Single sol - remote air pilot return	P		5/2 Remote air pilot - spring return	T		5/2 Single sol - spring return	Solenoid overrides / Lights 0 None (Air pilot only) B Spring return, flush without light C Locking, flush without light X None (Solenoid valve less solenoid)				
G		3/2 N/C Single sol - air differential return																																																																		
J		3/2 Double solenoid																																																																		
K		3/2 N/C Remote air pilot - air differential return																																																																		
M		3/2 Double remote air pilot																																																																		
R		3/2 N/C Single sol - spring return																																																																		
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U		3/2 N/C Remote air pilot - spring return																																																																		
1		5/2 Single sol - air differential return																																																																		
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3		5/2 Remote air pilot - air differential return																																																																		
4		5/2 Double remote air pilot																																																																		
5		5/3 Double solenoid - all ports blocked (APB)																																																																		
6		5/3 Double solenoid - cyl to exhaust ports (CE)																																																																		
7		5/3 Double solenoid - press to cylinder ports (PC)																																																																		
8		5/3 Double remote operated - all ports blocked (APB)																																																																		
9		5/3 Double remote operated - (CE) ①																																																																		
0		5/3 Double remote operated - (PC) ②																																																																		
A		5/2 Single sol - remote air pilot return																																																																		
P		5/2 Remote air pilot - spring return																																																																		
T		5/2 Single sol - spring return																																																																		
Solenoid Enclosures 0 None (Air pilot only) 5 15mm connector X None (Valve less 15mm solenoid)				Pilot operator / Coil voltage¹ 39 12V 50Hz 43 24V 50Hz 44 48V 50Hz 45 12V DC 49 24V DC 53 110V 50Hz 57 220V 50Hz XX Valve less solenoid operator																																																																
Shaded part numbers are standard				Engineering level F ① Cyl to exhaust ports (CE) ② Press to cylinder ports (PC)																																																																

¹ Shaded part numbers are standard
 Unshaded part numbers are available on request but will be subject to minimum order quantities
 Otherwise order XX version and order solenoid separately.

Metal Spool Valves

B4

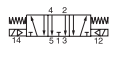

Main data for Directional control valves, B4 Series

Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty	
Pneumatically actuated 3/2 valves									
		Air	Differential air	1,5/-	34/45	0,163	B4K6000XXF	1	
		Air	Spring return	3,0/-	32/48	0,16	B4U6000XXF	1	
		Air	Air	1,5/1,5	15/17	0,177	B4M6000XXF	1	
Pneumatically actuated 5/2 and 5/3 valves									
		Air	Differential air	1,5/-	34/45	0,184	B436000XXF	1	
		Air	Spring return	3,0/-	32/48	0,19	B4P6000XXF	1	
		Air	Air	1,5/1,5	15/17	0,198	B446000XXF	1	
		Air	Air	3,0/3,0	16/19	0,204	B486000XXF	1	
		Closed centre position	Self centring						
		Vented centre position	Self centring						
	Pressurised centre position	Self centring							
Electrically actuated 3/2 valves									
		Electric	Differential air	1,5/-	34/45	0,206 0,157	24 VDC Less solenoid	B4G6AB549F B4G6AXXXF	1 1
		Electric	Spring return	3,0/-	36/40	0,210 0,161	24 VDC Less solenoid	B4R6AB549F B4R6AXXXF	1 1
		Electric	Air	1,5/1,5	15/17	0,220 0,170	24 VDC Less solenoid	B4S6AB549F B4S6AXXXF	1 1
		Electric	Electric	1,5/1/5	15/17	0,262 0,164	24 VDC Less solenoid	B4J6AB549F B4J6AXXXF	1 1
	Electrically actuated 5/2 valves								
		Electric	Differential	1,5/-	34/45	0,227 0,178	24 VDC Less solenoid	B416AB549F B416AXXXF	1 1
		Air	Air						
		Electric	Spring return	3,0/-	36/40	0,227 0,178	24 VDC Less solenoid	B4T6AB549F B4T6AXXXF	1 1
		Air	Air						
		Electric	Air	1,5/1/5	15/17	0,241 0,192	24 VDC Less solenoid	B4A6AB549F B4A6AXXXF	1 1



Metal Spool Valves

B4

Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
Electrically actuated 52 and 5/3 valves								
	Electric	Electric	1,5/1,5	15/15	0,283	24 VDC	B426AB549F	1
					0,185	Less solenoid	B426AXXXF	1
	Electric	Electric	3,0/3,0	16/18	0,289	24 VDC	B456AB549F	1
	Closed centre	Self centring position			0,191	Less solenoid	B456AXXXF	1
	Electric	Electric	3,0/3,0	16/18	0,289	24 VDC	B466AB549F	1
	Vented centre	Self centring position			0,191	Less solenoid	B466AXXXF	1
	Electric	Electric	3,0/3,0	16/18	0,289	24 VDC	B476AB549F	1
	Pressurised	Self centring centre position			0,191	Less solenoid	B476AXXXF	1

Internal air supply to differential pilots and solenoids via port 1

Silencers and push-in fittings are shown on page 27.

Valves supplied with solenoid operators include standard P8C-D connector

Metal Spool Valves

B4

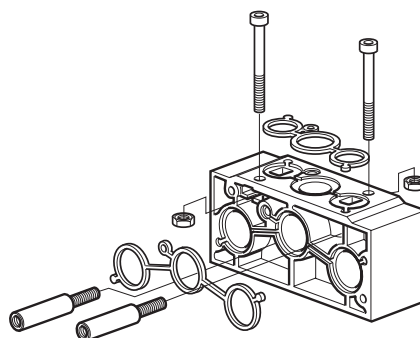
Inlet Exhaust Manifolds for B4 series valves

Standard Base without Flow Controls

Each kit contains:

- 1 pcs Manifold Base
- 2 pcs Mounting screws and nuts
- 2 pcs Tie Rods
- 1 pcs Body-to-base Gasket and
- 1 pcs Base-to-Base Gasket

	Order code	Qty
Manifold Base Kit 3/2 =	PS4548F	1
5/2 =	PS4517F	1



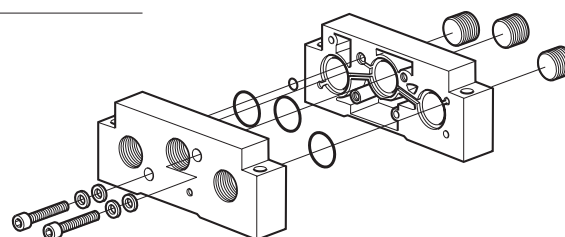
End plates

Standard End Plates may be used with either of above Manifold Bases

Each kit contains:

- 1 right and 1 left End Plate
- 3 pcs O-Rings
- 3 pcs Blanking Plugs
- 2 pcs Socket Head Cap Screws
- 2 pcs Flat Washers
- 2 pcs Lockwashers

	Port Size	Order code	Qty
Manifold End plate kit	3/8 BSP 3/2 =	PS4551F	1
	3/8 BSP 5/2 =	PS4516F	1



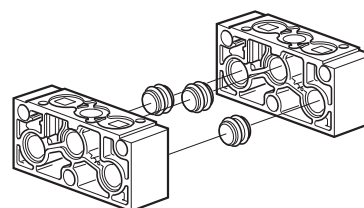
Isolator Plug Kit

Used to isolate the 1, 3 or 5 gallery between two Manifold Bases

Each kit contains:

- 3 pcs Isolator Plugs complete with O-rings

	Order code	Qty
Isolator Plug kit	PS4519F	1

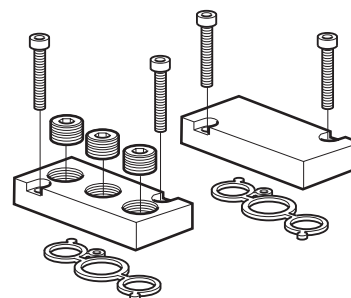


Manifold Blanking plate

Each kit contains:

- 1 pcs Cover Plate
 - 2 pcs Mounting Screws
 - 1 pcs Gasket
- Used to blank off unused stations.

	Order code	Qty
Manifold 3/2 =	PS4568F	1
Blanking plate 5/2 =	PS4569F	1



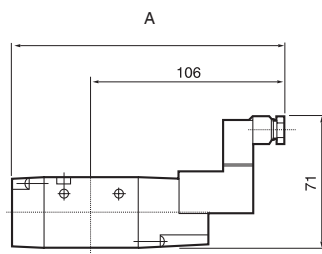
Metal Spool Valves

B4

Dimensions, B4 Valve Series

3/2 Body ported

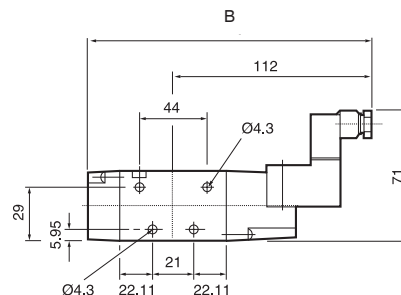
Single solenoid operated air spring return / spring return



	Air differential return	Spring return
A	154,0	156,0

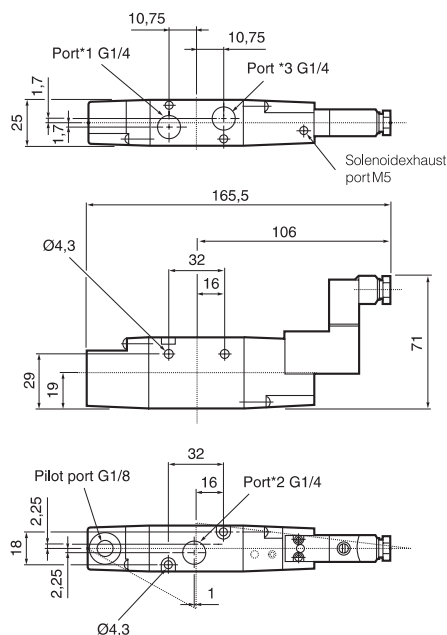
5/2 Body ported

Single solenoid operated air spring return / spring return

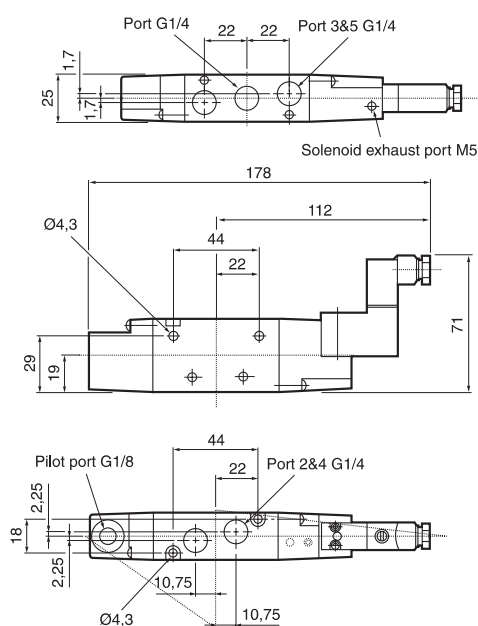


	Air differential return	Spring return
B	166,0	168,0

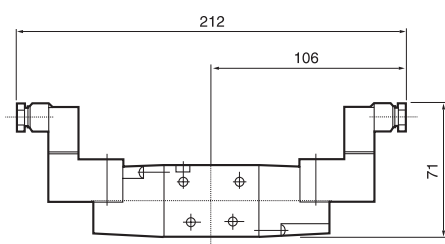
Single solenoid operated air pilot return



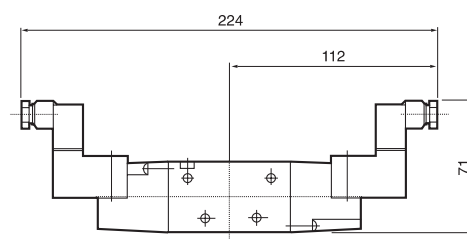
Single solenoid operated air pilot return



Double solenoid operated



Double solenoid operated



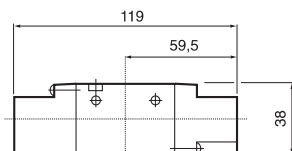
All dimensions in mm unless otherwise stated

Metal Spool Valves

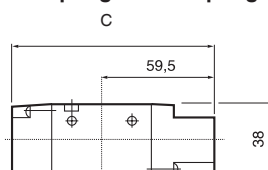
B4

Dimensions, B4 Valve Series

3/2 Body ported
Double air pilot operated

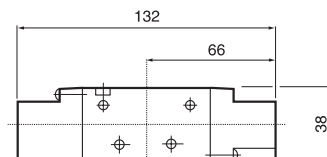


Air pilot operated air spring return / spring return

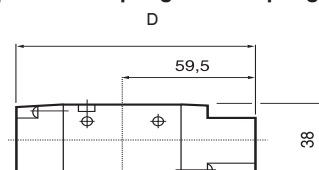


	Air differential return	Spring return
C	107,5	109,5

5/2 Body ported
Double air pilot operated

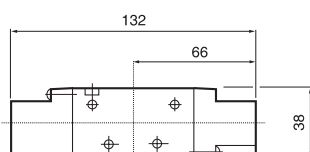


Air pilot operated air spring return / spring return

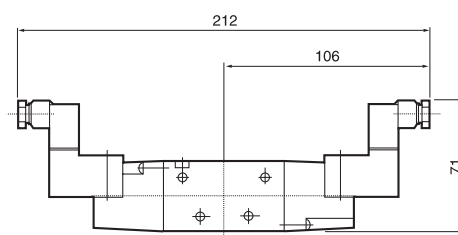


	Air differential return	Spring return
D	120,0	122,0

5/3 Body ported
Double air pilot return

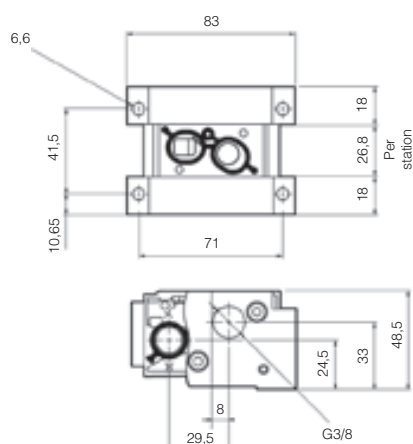


5/3 Body ported
Double solenoid operated

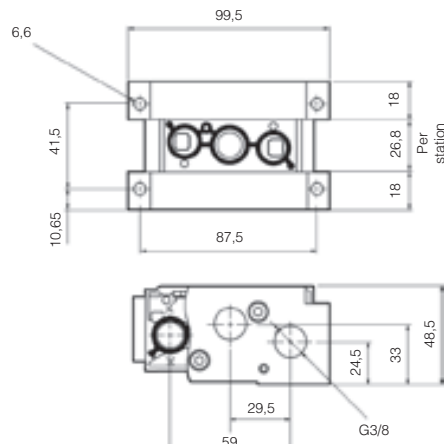


Manifolds - IEM Inlet Exhaust Manifold System

3/2 Inlet Exhaust Manifold
For B4 Body Ported Valves



5/2 Inlet Exhaust Manifold
For B4 Body Ported Valves



All dimensions in mm unless otherwise stated



Metal Spool Valves








B5

- G1/4 ports, 3/2, 5/2 and 5/3 functions
- Inlet-exhaust manifold facility
- Integral mounting holes
- 5 watt solenoid actuators
- EN175301-803 Industrial Form B connector



Operating information

Working pressure	Max 10 bar	Flow (3/2) and (5/2)	Qn = 24 l/s
Working temperature;		(acc. to ISO 6358)	Q max = 37 l/s
Pneumatically actuated	-10°C to +60°C		Cv = 1,4
Electrically actuated	-10°C to +50°C		








B	5	2	6	B	C	B	49	C
Basic series B5 Ported valve		Port size 6 G1/4		Pilot source / Pilot exhaust B Port 1 / Vented / Side		Solenoid overrides / Lights C Locking, flush without light X None		
Operator function 3 Port J  3/2 Double solenoid V  3/2 N/C Single solenoid - air return / spring assist				Solenoid Enclosures B 22mm Industrial Form B N Valve less 22mm solenoid coil X None				
5 Port 2  5/2 Double solenoid 5  5/3 Double solenoid - all ports blocked (APB) 6  5/3 Double solenoid - cyl to exhaust ports (CE) 7  5/3 Double solenoid - press to cylinder ports (PC) E  5/2 Single solenoid - air return / spring assist				Pilot operator / Coil voltage¹ 43 24V 50Hz 45 12V DC 49 24V DC 53 110V 50Hz 57 220V 50Hz XX Valve less solenoid operator				
Shaded part numbers are standard				Engineering level C				

¹ Shaded part numbers are standard
Unshaded part numbers are available on request but will be subject to minimum order quantities
Otherwise order XX version and order solenoid coil separately.

Metal Spool Valves

B5

Main data for Directional control valves, B5 Series (G1/4 threaded ports)

Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
Electrically actuated 3/2 valves								
	Electric	Air/Spring Assisted	2,4/2,4	24/26		24 VDC Less solenoid coil	B5V6BCB49C	1
							B5V6BCNXXC	1
	Electric	Electric	1,5/1/5	15/17		24 VDC Less solenoid coil	B5J6BCB49C	1
							B5J6BCNXXC	1
Electrically actuated 5/2 valves								
	Electric	Air/Spring Assisted	2,4/2,4	24/26		24 VDC Less solenoid coil	B5E6BCB49C	1
							B5E6BCNXXC	1
Electrically actuated 5/2 valves								
	Electric	Electric	1,5/1,5	15/15	0,283 0,185	24 VDC Less solenoid	B526BCB49C	1
							B526BCNXXC	1
	Electric	Closed centre Self centring position	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B556BCB49C	1
							B556BCNXXC	1
	Electric	Vented centre Self centring position	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B566BCB49C	1
							B566BCNXXC	1
	Electric	Pressurised Self centring centre position	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B576BCB49C	1
							B576BCNXXC	1

Order solenoid connectors separately, see page 25 for part numbers.

Internal air supply to differential pilots and solenoids via port 1
Silencers and push-in fittings are shown on page 27.

Metal Spool Valves

B5

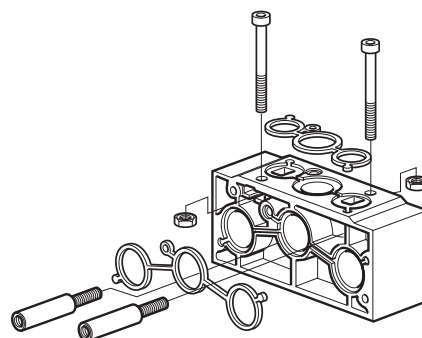
Inlet Exhaust Manifolds for B5 series valves

Standard Base without Flow Controls

Each kit contains:

- 1 pcs Manifold Base
- 2 pcs Mounting screws and nuts
- 2 pcs Tie Rods
- 1 pcs Body-to-base Gasket and
- 1 pcs Base-to-Base Gasket

	Order code	Qty
Manifold Base Kit	PS2817P	1



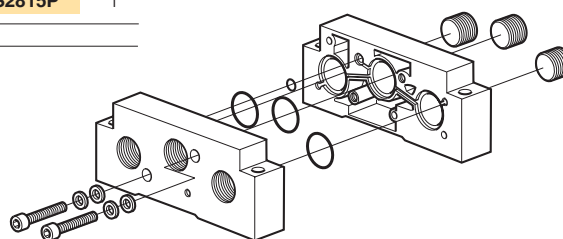
End plates

Standard End Plates may be used with either of above Manifold Bases

Each kit contains:

- 1 right and 1 left End Plate
- 3 pcs O-Rings
- 3 pcs Blanking Plugs
- 2 pcs Socket Head Cap Screws
- 2 pcs Flat Washers
- 2 pcs Lockwashers

	Port Size	Order code	Qty
Manifold End plate kit	G3/8	PS2815P	1



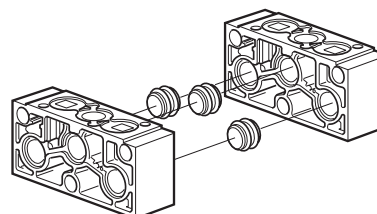
Isolator Plug Kit

Used to isolate the 1, 3 or 5 gallery between two Manifold Bases

Each kit contains:

- 3 pcs Isolator Plugs complete with O-rings

	Order code	Qty
Isolator Plug kit	PS2819P	1

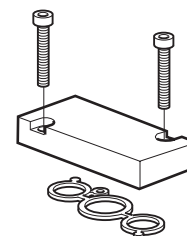


Manifold Blanking plate

Each kit contains:

- 1 pcs Cover Plate
 - 2 pcs Mounting Screws
 - 1 pcs Gasket
- Used to blank off unused stations.

	Order code	Qty
Manifold Blanking plate	PS2869P	1



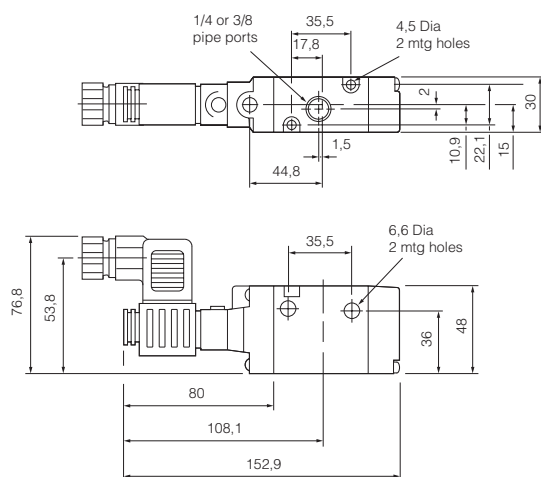
Metal Spool Valves

B5

Dimensions, B5 Valve Series

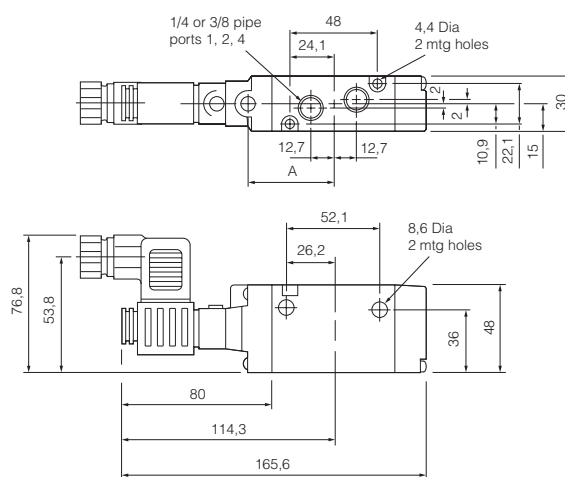
3/2 Body ported

Single solenoid operated air spring return / spring return



5/2 and 5/3 Body ported

Single solenoid operated air spring return / spring return



2 Position

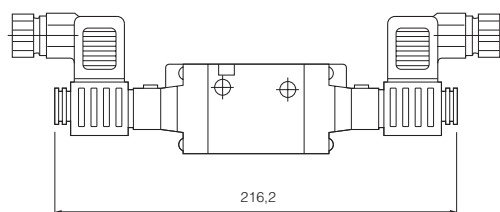
3 Position

A

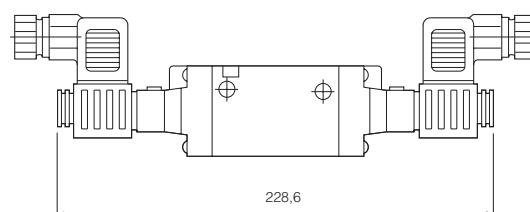
51,1

62,7

Double solenoid operated



Double solenoid operated



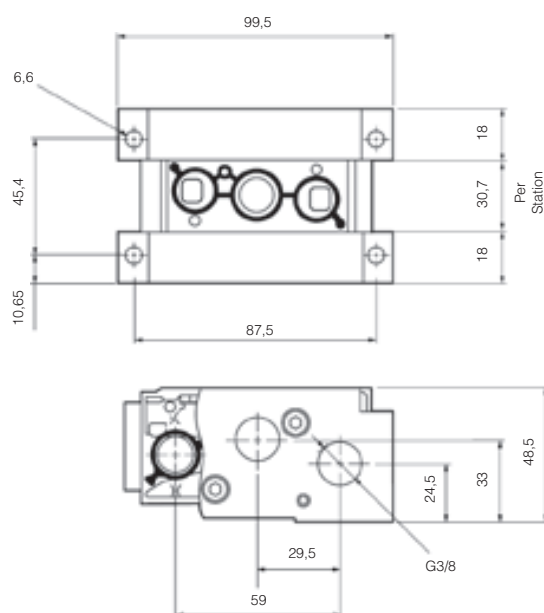
All dimensions in mm unless otherwise stated

Metal Spool Valves

B5

Manifolds - IEM Inlet Exhaust Manifold System

5/2 Inlet Exhaust Manifold For B5 Body Ported Valves



All dimensions in mm unless otherwise stated



Solenoid Valve Options

B Series

Valve supplied without solenoids

B3 and B4 valves are designed to accept 15mm solenoid operator / connector CECC/EN 175301-803 Form C/ISO 15217. Solenoid operated valves may be ordered without the solenoid operator and connector by substituting XXXX in positions 6 to 9 of the part number. Example B3T5BXXXXH is part number for 5/2 Single solenoid operated spring return valve without solenoid operator and standard connector. See Fig 1.



Fig 1.

B5 valves are designed to accept 22mm solenoid operator/connector EN175301-803 Industrial Form B. Solenoid valves may be ordered without the coil and connector and are supplied with the solenoid operator fitted to the valve. See Fig 2. Example B5E6BCNXXC is part number for 5/2 Single solenoid operated valve fitted with the solenoid operator having flush locking M/O without coils and connectors.



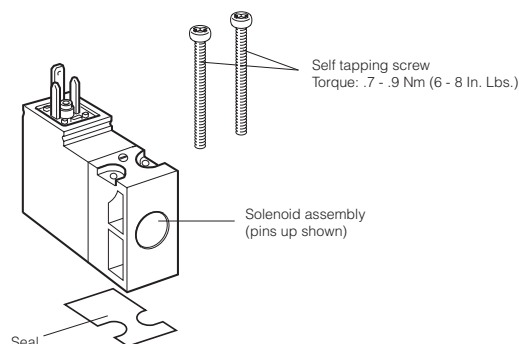
Fig 2.

Solenoid Operators

B Series

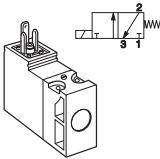
15mm Solenoid Operators for B3 and B4 Valves

Electrical connection EN 175302-803 C/ISO15217 (Ex DIN 43650C)



Solenoids 15mm NC, standard

(Note! Mounting screws included with basic valve)

	Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking flush	Weight Kg	Order code Override, yellow, locking flush
	12 VDC	0,038	P2E-KV32B0	0,038	P2E-KV32B1	0,038	P2E-KV32B2
	24 VDC	0,038	P2E-KV32C0	0,038	P2E-KV32C1	0,038	P2E-KV32C2
	48 VDC	0,038	P2E-KV32D0	0,038	P2E-KV32D1	0,038	P2E-KV32D2
	24 VAC 50Hz	0,038	P2E-KV31C0	0,038	P2E-KV31C1	0,038	P2E-KV31C2
	48 VAC 50/60Hz	0,038	P2E-KV34D0	0,038	P2E-KV34D1	0,038	P2E-KV34D2
	115 VAC 50Hz	0,038	P2E-KV31F0	0,038	P2E-KV31F1	0,038	P2E-KV31F2
	120 VAC 60Hz						
	230 VAC 50Hz	0,038	P2E-KV31J0	0,038	P2E-KV31J1	0,038	P2E-KV31J2
	240 VAC 60Hz						

Solenoid coils for B5 valves

Solenoid coils to suit 'N' enclosure type 22mm 3-Pin EN 175301-803 Industrial Form B

Coil Voltage	Order code	Weight (kg)
24 VAC	P2FCB442	0.093
12 VDC	P2FCB445	0.093
24 VDC	P2FCB449	0.093
110 VAC	P2FCB453	0.093
230 VAC	P2FCB457	0.093

Spare solenoid nuts

Valves with vented exhaust are fitted with diffuser plastic nut

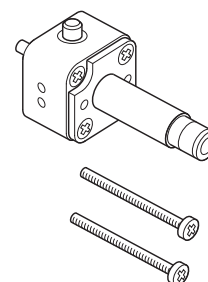
Order code

P2FND



Solenoid Operator Kit for B5 valves

Each kit contains:
1 large 'O' ring for operator base
1 small 'O' ring for operator base
2 mounting screws






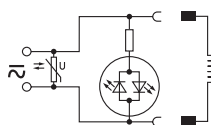
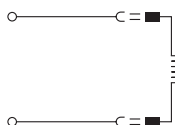
	Order code	Weight (kg)	Qty
Non locking m/o	P2FP13N4D	0.04	1
Locking m/o	P2FP13N4C	0.04	1

Solenoid Valves

B Series

Solenoid Connectors / Cable Plugs EN175301-803

	Description	Order code 15mm Form C/ISO15217 Suitable for B3 & B4 valves	Order code 22mm Industrial Form B Suitable for B5 valves
With large headed screw suitable for mounting in inaccessible or recess position 	Standard IP65	P8C-C	
	24V DC LED and protection IP65	P8C-C26C	
	110V AC LED and protection IP65	P8C-C21E	
With standard screw 	Standard IP65 without flying lead	P8C-D	3EV10V10
	With LED and protection 24V AC/DC	P8C-D26C	3EV10V20-24
	With LED and protection 110V AC	P8C-D21E	3EV10V20-110
	With LED and protection 230V AC		3EV10V20-230
With cable 	Standard with 2m cable IP65	P8L-C2	
	Standard with 5m cable IP65	P8L-C5	
	24V AC/DC, 2m cable LED and protection IP65	P8L-C226C	
	24V AC/DC, 5m cable LED and protection IP65	P8L-C526C	3EV10V20-24L5
	24V AC/DC, 10m cable LED and protection IP65	P8L-CA26C	
	110V AC/DC, 2m cable LED and protection IP65	P8L-C221E	
	110V AC/DC, 5m cable LED and protection IP65	P8L-C521E	3EV10V20-110L5
	230V AC, 5m cable LED and protection IP65		3EV10V20-230L5



P8C-C
P8C-D
P8L-C2
P8L-C5
3EV10V10
3EV290V10

P8C-D26C	P8L-C226C
P8C-D21E	P8L-C526C
P8C-C26C	P8L-CA26C
P8C-C21E	P8L-C221E
	P8L-C521E
3EV10V20-24	3EV10V20-24L5
3EV10V20-110	3EV10V20-110L5
3EV10V20-230	3EV10V20-230L5

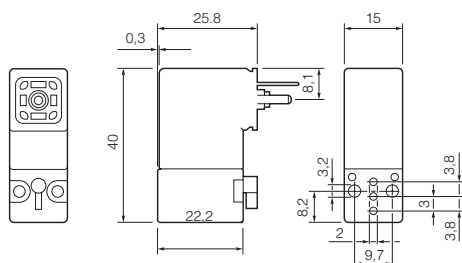


Solenoid Valves

B Series

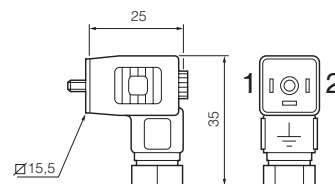
Cable Plug Dimensions (mm)

Solenoid valves P2E-•V...



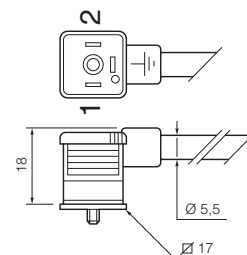
Cable plugs form C / ISO 15217 for B3 & B4 valves

P8C-C
P8C-C26C
P8C-C21E
P8C-D
P8C-D26C
P8C-D21E



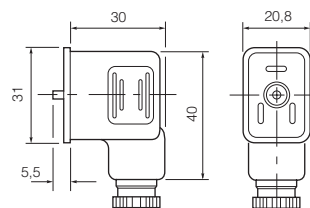
Cable plugs form C / ISO 15217 with cables for B3 & B4 valves

P8L-C2
P8LC5
P8L-C226C
P8L-C526C
P8L-CA26C
P8L-C221E
P8L-C521E



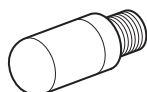
Cable plugs Form B for B5 valves

3EV10V10



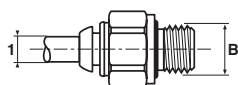
Accessories, Service and Replacement Parts

Silencers



Port	Ordercode	Pack Qty
M5	P6M-PAC5	10
G1/8	P6M-PAB1	10
G1/4	P6M-PAB2	10

Fittings



Male straight connectors - Parallel thread

Tube dia 1	Thread B	Ordercode	Box Qty
4	M5 x 0.8	F8PMB4M5	30
6	M5 x 0.8	F8PMB6M5	20
4	G1/8	F4PMB4-1/8	20
6	G1/8	F4PMB6-1/8	30
8	G1/8	F4PMB8-1/8	40
6	G1/4	F4PMB6-1/4	30
8	G1/4	F4PMB8-1/4	30
10	G1/4	F4PMB10-1/4	20
12	G1/4	F4PMB12-1/4	10



Accessories, Services and Replacement Parts B Series

B3,B4 and B5 Spool/Body repair kits contain:

Spool
Spool seals
Lip seal – operator pistons
Gaskets
Spool springs
Grease packet

B3 series valves

3/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	PS2971F
5/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	PS2901F
5/3 APB solenoid and remote pilot operated valves - Spool/Body Repair kit	PS2902F

Manifold gasket kits

3/2 IEM Gasket kit (10 valve/manifold gaskets)	PS2980F
5/2 IEM Gasket kit (10 valve/manifold gaskets)	PS2981F

B4 series valves

3/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	PS4571F
5/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	PS4501F
5/3 solenoid and remote pilot operated valves – APB Spool/Body Repair kit	PS4502F
5/3 solenoid and remote pilot operated valves – CE Spool/Body repair kit	PS4503F
5/3 solenoid and remote pilot operated valves – PC Spool/Body repair kit	PS4504F

Manifold gasket Kits.

3/2 IEM Gasket Kit (10 valve/manifold gaskets)	PS4580F
5/2 IEM Gasket Kit (10 valve/manifold gaskets)	PS4581F

B5 series valves

3/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	PS2871P
5/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	PS2801P
5/3 solenoid and remote pilot operated valves – APB Spool/Body Repair kit	PS2802P
5/3 solenoid and remote pilot operated valves – CE Spool/Body repair kit	PS 2803P
5/3 solenoid and remote pilot operated valves – PC Spool/Body repair kit	PS2804P

Manifold gasket Kits.

3/2 & 5/2 IEM Gasket kit PS2884P (10 valve/manifold gaskets)	PS2884P
--	----------------

Solenoid coils for B5 valves

Solenoid coils to suit 'N' enclosure type 22mm 3-Pin Industrial Form B

Coil Voltage	Order code	Weight (kg)
24VAC	P2FCB442	0.093
12VDC	P2FCB445	0.093
24VDC	P2FCB449	0.093
110VAC	P2FCB453	0.093
230VAC	P2FCB457	0.093

Solenoid operator kit

Each kit contains:

- 1 Large 'O'ring for operator base
- 1 Small 'O' ring for operator base

	Order code	Qty
Non locking m/o	P2FP13N4D	1
Locking m/o	P2FP13N4C	1



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