



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.

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 accomodate 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

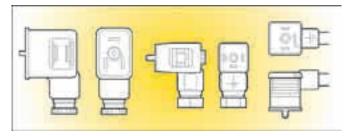
Valves easily comply with the requirements for component reliability in accordance with EU Machinery Directive standards EN292-2 and EN983.

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

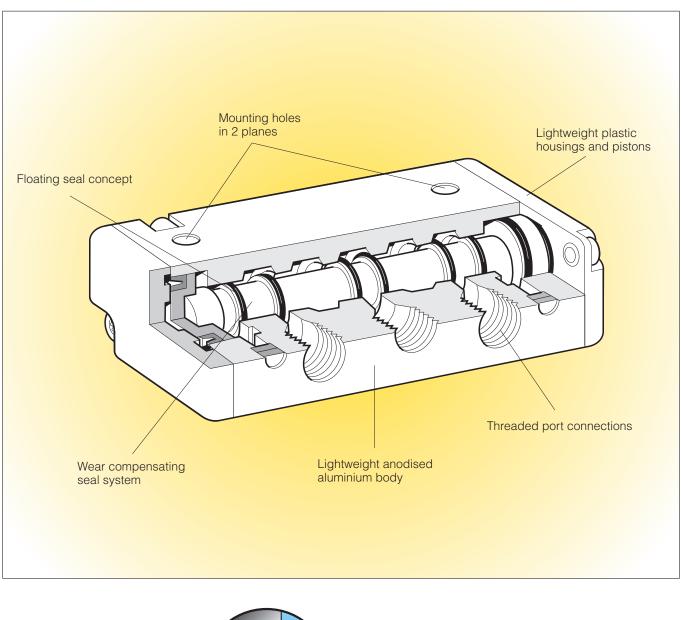
All B series valves have reliable function and long service life. Spare solenoid and repair kits are available.





Directional Control Valves

B Series





"Wear Compensating System"

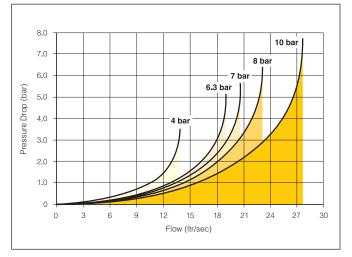
The B series valves are fitted with dynamic bi-directional spool seals suitable for vacuum or pressures up to 10 bar. Under pressure radial expansion of the seal occurs to maintain sealing contact with the valve bore. This sealing method reduces friction gives lower pilot pressures, fast response and less wear. Valves do not require lubrication in operation but they can also be installed in systems that are lubricated.



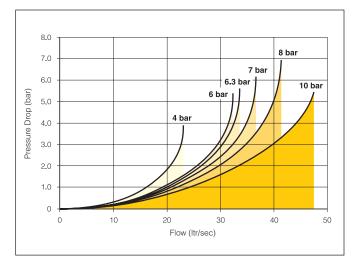
Flow characteristics

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

Technical Data B3



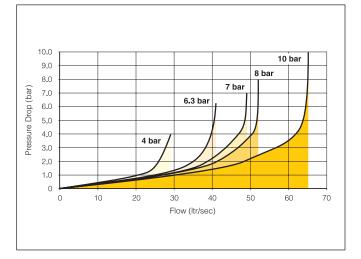
Technical	Data B4	



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

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

Technical Data B5



Port size Operating pressure.	G1/4 Vacuum - 10 bar
Working temperature. Pneumatically operated valves. Solenoid operated valves.	-10°C to + 50°C -10°C to + 50°C
Response times: Single sol spring return	00/40
Single sol air spring return Double solenoid operated	38/40ms 16/18ms
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 End covers

Spool Piston U-rings, O-rings End cover sealings End cover screws Springs

Mounting screws for solenoid

B3 Accessories

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

Anodised aluminium

Nitrile rubber

Nitrile rubber

Stainless steel

Stainless steel

Stainless steel

Anodised aluminium or

Reinforced thermoplastic

Aluminium + nitrile rubber

Dacromet[®] - processed steel,

Acetal plastic/ Anodised aluminium

B5 valve

Valve body Spool Piston Lining End covers Sliding seals U-rings, O-rings End cover sealings End cover screws Springs Mounting screws for solenoid

B5 Accessories

IEM manifold End plates Manifold connecting screws Anodised aluminium Aluminium + nitrile rubber Brass Brass Anodised aluminium Thermoplastic Nitrile rubber Nitrile rubber Stainless steel Stainless steel Zinc plated steel

Glass filled nylon Anodised aluminium Zinc plated steel

B4 valve

Valve body Spool Piston Lining End covers Sliding seals U-rings, O-rings End cover sealings Push buttom for manual changeover End cover screws Springs Mounting screws for solenoid

B4 Accessories

IEM manifold End plates Manifold connecting screws Anodised aluminium Acetal plastic/ Anodised aluminium Acetal plastic /Anodised aluminium Reinforced thermoplastic Anodised aluminium Thermoplastic Nitrile rubber Nitrile rubber

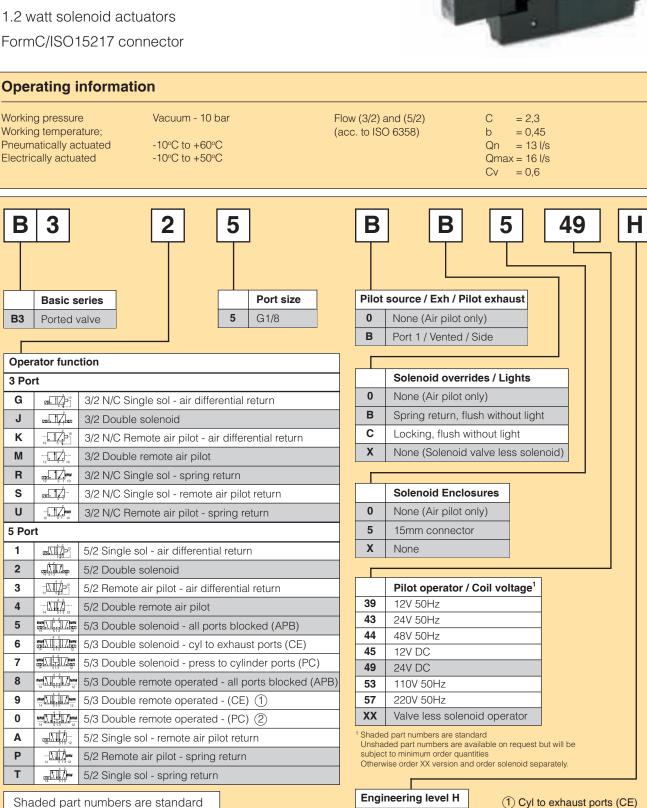
Acetal plastic Stainless steel Stainless steel Zinc-plated steel

Glass filled nylon Anodised aluminium Zinc plated steel



Metal Spool Valves

- 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





(2) Press to cylinder ports (PC)

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
Pneumatica	ally actuated	3/2 valves							
		Air	Differential air	1,4/-	16/17	0,07		B3K5000XXH	1
	12 3 1 10	Air	Spring return	3,0/-	20/18	0,07		B3U5000XXH	1
	12 3 1 10	Air	Air	1,4/-	2/2	0,08		B3M5000XXH	1
Pneumatica	ally actuated	5/2 and 5/3 valv	ves						
		Air	Differential air	1,4/-	16/17	0,09		B335000XXH	1
	14 5 1 3 12	Air	Spring return	3,0/-	20/18	0,09		B3P5000XXH	1
	14 51 3 12	Air	Air	1,4/1,4	2/2	0,10		B345000XXH	1
		Air Closed centre position	Air Self centring	3,0/3,0	12/12	0,10		B385000XXH	1
		Air Vented centre position	Air Self centring	3,0/3,0	12/12	0,10		B395000XXH	1
		Air Pressurised centre position	Air Self centring	3,0/3,0	12/12	0,10		B305000XXH	1
Electrically	actuated 3/2	valves Electric	Differential air	1,4/-	12/14	0,12 0,08	24 VDC Less solenoid	B3G5BB549H B3G5BXXXXH	1 1
		Electric	Spring return	3,0/-	22/28	0,12 0,08	24 VDC Less solenoid	B3R5BB549H B3R5BXXXXH	1 1
		Electric	Air	1,4/1/4	9/3	0,13 0,09	24 VDC Less solenoid	B3S5BB549H B3S5BXXXXH	1 1
		Electric	Electric	1,4/1/4	8/8	0,13 0,09	24 VDC Less solenoid	B3J5BB549H B3J5BXXXXH	1 1
Electrically	actuated 5/2	valves							
		Electric Air	Differential Air	1,4/-	12/14	0,12 0,09	24 VDC Less solenoid	B315BB549H B315BXXXXH	1 1
· · ·		Electric	Spring return	3,0/-	22/28	0,12 0,09	24 VDC Less solenoid	B3T5BB549H B3T5BXXXXH	1 1
		Electric	Air	1,4/1/4	9/3	0,14 0,10	24 VDC Less solenoid	B3A5BB549H B3A5BXXXXH	1 1
			Electric	1,4/1/4	8/8	0,19 0,10	24 VDC Less solenoid	B325BB549H B325BXXXXH	1 1



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							
	(T)	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							
	4 2	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							
	4 2	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.

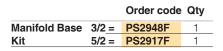
Valves supplied with solenoid operators include standard P8C-D connector

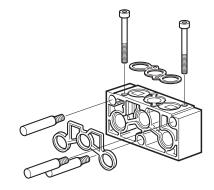


Inlet Exhaust Manifolds for B3 series valves

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

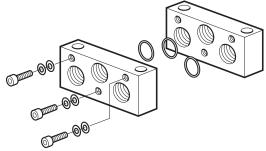




End plates

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

Each kit contains: 1 right and 1 left End Plate			Order code	e Qty	-
3 pcs O-Rings	Manifold End	3/2 =	PS2951F	1	-
3 pcs Blanking Plugs	plate kit	5/2 =	PS2916F	1	୍ ରୀ
3 pcs Socket Head Cap Screws					. 🗸
3 pcs Flat Washers					

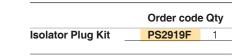


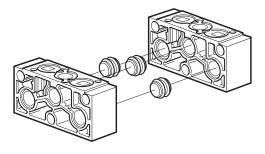
Isolator Plug Kit

3 pcs Lockwashers

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

Each kit contains: 3 pcs Isolator Plugs complete with O-rings.

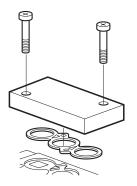




Manifold Blanking Plate

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



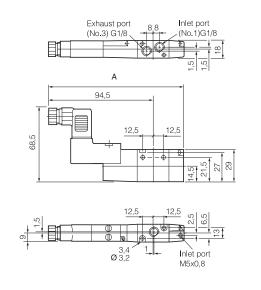




Dimensions, B3 Valve Series

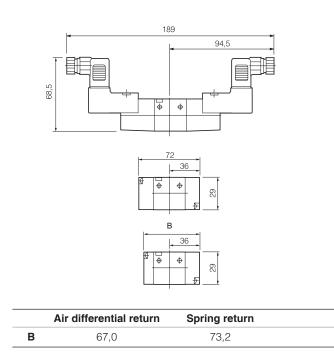
3/2 Body ported

Single solenoid operated air spring return / spring return



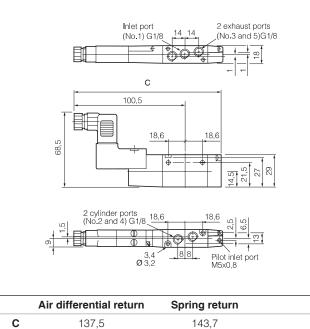
	Air differential return	Spring return	
Α	130,5	136,7	

Double solenoid operated

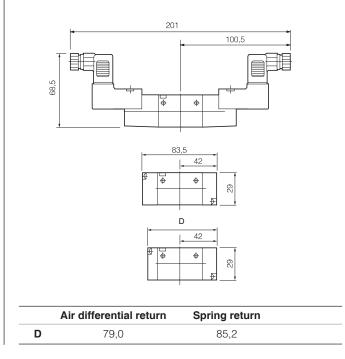


5/2 Body ported

Single solenoid operated air spring return / spring return



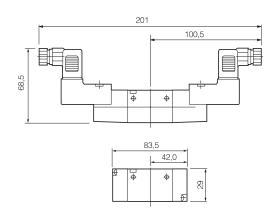
Double solenoid operated





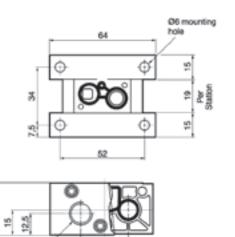
Dimensions, B3 Valve Series

5/3 Body ported



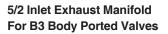
Manifolds - IEM Inlet Exhaust Manifold System

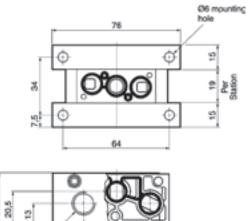
3/2 Inlet Exhaust Manifold For B3 Body Ported Valves

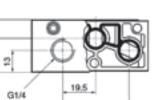


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27







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All dimensions in mm unless otherwise stated





없

G1/4

엻

Metal Spool Valves

- 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



				Flow (3/2) (acc. to IS		C = 4,56 b = 0,30 Qn = 19,5 l/s Cv = 1,2			
B	4	2	6		A	B	5	49	
	Basic s	eries		rt size	Pilot	t source / Exh / F	Pilot exhaust		
34	Ported v	valve	6 G1/	/4	0	None (Air pilot			
					Α	Port 1 / Tapped	d / Side		
pe	rator func	tion							
Ро	rt					Solenoid over	rides / Lights		
G		3/2 N/C Single sol -	air differential returr	ו	0	None (Air pilot	only)		
J		3/2 Double solenoid	d		В	Spring return, flush without light			
К		3/2 N/C Remote air	pilot - air differential	return	C	Locking, flush without light			
M		3/2 Double remote	air pilot		X	None (Solenoid valve less solenoid)			
R		3/2 N/C Single sol -	- spring return						
s		3/2 N/C Single sol -	remote air pilot retu	rn		Solenoid Enc	losures		
U		3/2 N/C Remote air	pilot - spring return		0	None (Air pilot	only)		
Ро	rt				5	15mm connec	tor		
1		5/2 Single sol - air o	differential return		X	None (Valve le	ss 15mm solenoid)		
2		5/2 Double solenoid	d						
3		5/2 Remote air pilot	t - air differential retu	rn		-	/ Coil voltage ¹		
4		5/2 Double remote	air pilot		39	12V 50Hz			
5		5/3 Double solenoid	d - all ports blocked	(APB)	43	24V 50Hz			
6		5/3 Double solenoid	d - cyl to exhaust po	rts (CE)	44	48V 50Hz 12V DC			
7		5/3 Double solenoid	d - press to cylinder	ports (PC)	49	24V DC			
8		5/3 Double remote	operated - all ports b	blocked (APE	3) 53	110V 50Hz			
9		5/3 Double remote	operated - (CE) 1		57	220V 50Hz			
0		5/3 Double remote	operated - (PC) (2)		XX	Valve less sole	noid operator		
Α		5/2 Single sol - rem	ote air pilot return			ed part numbers are st aded part numbers are	andard available on request but w	ill be	
Ρ		5/2 Remote air pilot	t - spring return		subjec	ot to minimum order qu			
т		5/2 Single sol - spri	ng return		Culer				
		t numbers are star	dord		Engi	ineering level F	1) Cvl to exh	aust ports (CE)	



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Metal Spool Valves

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
Pneumatic	ally actuated								
		Air	Differential air	1,5/-	34/45	0,163		B4K6000XXF	1
	12 3 1 10	Air	Spring return	3,0/-	32/48	0,16		B4U6000XXF	1
	2 12 3 1 10	Air	Air	1,5/1,5	15/17	0,177		B4M6000XXF	1
Pneumatic	ally actuated	5/2 and 5/3 valv	es						
		Air	Differential air	1,5/-	34/45	0,184		B436000XXF	1
		Air	Spring return	3,0/-	32/48	0,19		B4P6000XXF	1
	 14 513 12	Air	Air	1,5/1,5	15/17	0,198		B446000XXF	1
		Air Closed centre position	Air Self centring	3,0/3,0	16/19	0,204		B486000XXF	1
		Air Vented centre position	Air Self centring	3,0/3,0	16/19	0,204		B496000XXF	1
		Air Pressurised centre position	Air Self centring	3,0/3,0	16/19	0,204		B406000XXF	1
Electrically	actuated 3/2	valves							
		Electric	Differential air	1,5/-	34/45	0,206 0,157	24 VDC Less solenoid	B4G6AB549F B4G6AXXXXF	1 1
		Electric	Spring return	3,0/-	36/40	0,210 0,161	24 VDC Less solenoid	B4R6AB549F B4R6AXXXXF	1 1
		Electric	Air	1,5/1,5	15/17	0,220 0,170	24 VDC Less solenoid	B4S6AB549F B4S6AXXXXF	1 1
		Electric	Electric	1,5/1/5	15/17	0,262 0,164	24 VDC Less solenoid	B4J6AB549F B4J6AXXXXF	1 1
Electrically	actuated 5/2	valves							
		Electric Air	Differential Air	1,5/-	34/45	0,227 0,178	24 VDC Less solenoid	B416AB549F B416AXXXXF	1 1
		Electric Air	Spring return	3,0/-	36/40	0,227 0,178	24 VDC Less solenoid	B4T6AB549F B4T6AXXXXF	1 1
		Electric	Air	1,5/1/5	15/17	0,241 0,192	24 VDC Less solenoid	B4A6AB549F B4A6AXXXXF	1



Symbol	Actuator	Return	Signal pressure min, bar at 6 bar actua./return	e Changeover time, ms at 6 bar actua./return	Weight Kg	Voltage	Order code	Qty
actuated 52 a	and 5/3 valves							
	Electric	Electric	1,5/1,5	15/15	0,283 0,185	24 VDC Less solenoid	B426AB549F B426AXXXXF	1 1
	Electric Closed centre position	Electric Self centring	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B456AB549F B456AXXXXF	1 1
	Electric Vented centre position	Electric Self centring	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B466AB549F B466AXXXXF	1 1
	Electric Pressurised centre position	Electric Self centring	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B476AB549F B476AXXXXF	1

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

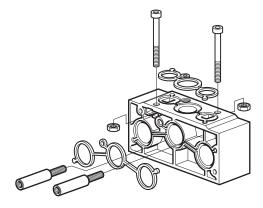
Valves supplied with solenoid operators include standard P8C-D connector



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

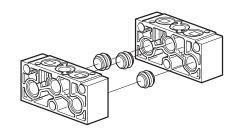
Each kit contains:		Port Size	•	Order code	Qty	
1 right and 1 left End Plate 3 pcs O-Rings	Manifold End plate kit			PS4551F PS4516F	1 1	
3 pcs Blanking Plugs 2 pcs Socket Head Cap Screws 2 pcs Flat Washers 2 pcs Lockwashers						

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

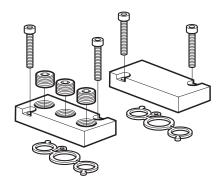
	Order code	Qty
Isolator Plug kit	PS4519F	1



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

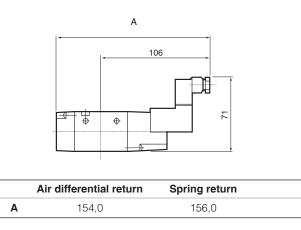




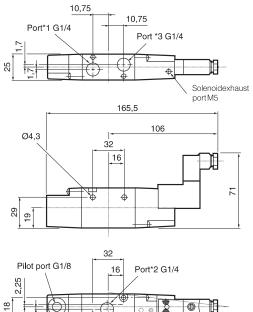
Dimensions, B4 Valve Series

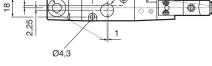
3/2 Body ported

Single solenoid operated air spring return / spring return

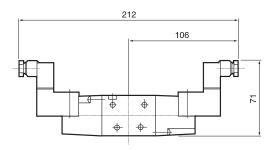


Single solenoid operated air pilot return



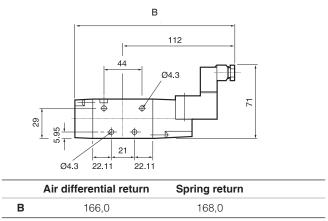


Double solenoid operated

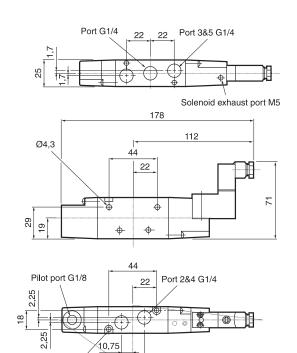


5/2 Body ported

Single solenoid operated air spring return / spring return

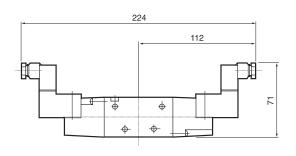


Single solenoid operated air pilot return



Double solenoid operated

Ø4,3



10,75

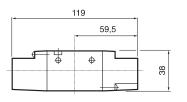
All dimensions in mm unless otherwise stated



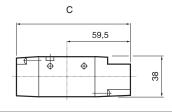
Dimensions, B4 Valve Series

3/2 Body ported



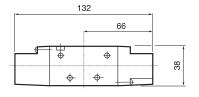


Air pilot operated air spring return / spring return



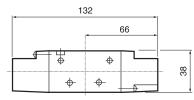
	Air differential return	Spring return	
С	107,5	109,5	

5/3 Body ported Double air pilot return

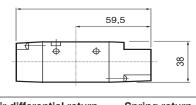


5/2 Body ported

Double air pilot operated

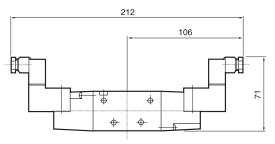


Air pilot operated air spring return / spring return



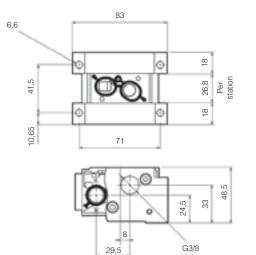
	Air differential return	Spring return	
D	120,0	122,0	

5/3 Body ported Double solenoid operated



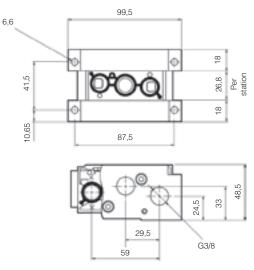
Manifolds - IEM Inlet Exhaust Manifold System

3/2 Inlet Exhaust Manifold For B4 Body Ported Valves



5/2 Inlet Exhaust Manifold

For B4 Body Ported Valves



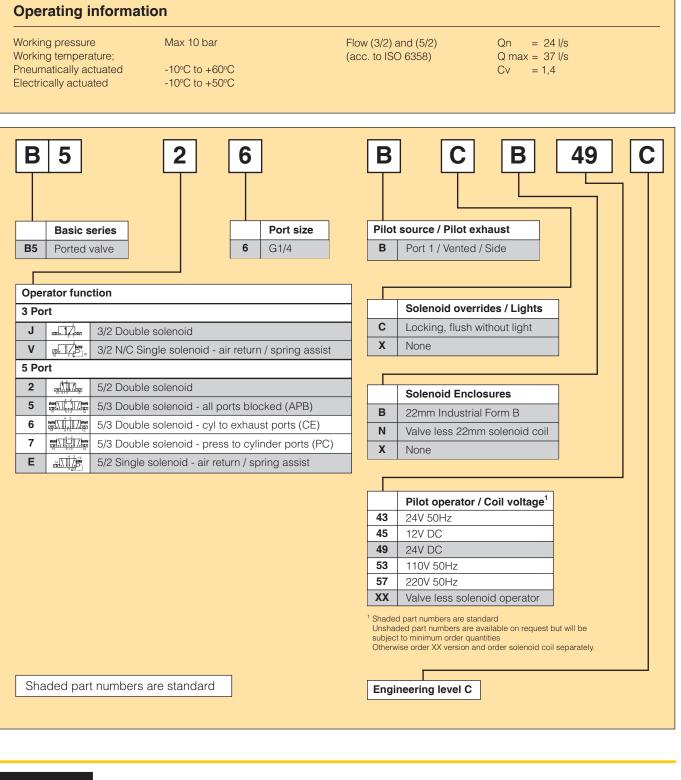
All dimensions in mm unless otherwise stated



Metal Spool Valves

- 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





В5

Metal Spool Valves

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 B5V6BCNXXC	1 1
		Electric	Electric	1,5/1/5	15/17		24 VDC Less solenoid coil	B5J6BCB49C B5J6BCNXXC	1
Electrically	actuated 5/2	valves							
		Electric	Air/Spring Assisted	2,4/2,4	24/26		24 VDC Less solenoid coil	B5E6BCB49C B5E6BCNXXC	1 1
Electrically	actuated 5/2	valves							
		Electric	Electric	1,5/1,5	15/15	0,283 0,185	24 VDC Less solenoid	B526BCB49C B526BCNXXC	1 1
		Electric Closed centre position	Electric Self centring	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B556BCB49C B556BCNXXC	1 1
		Electric Vented centre position	Electric Self centring	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B566BCB49C B566BCNXXC	1 1
		Electric Pressurised centre position	Electric Self centring	3,0/3,0	16/18	0,289 0,191	24 VDC Less solenoid	B576BCB49C B576BCNXXC	1

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

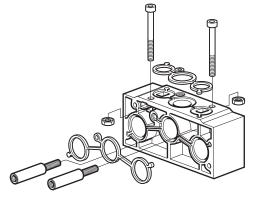
Internal air supply to differential pilots and solenoids via port 1 Silencers and push-in fittings are shown on page 27.



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	





End plates

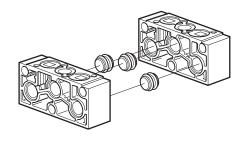
Standard End Plates may be used with Port Size Order code Qty either of above Manifold Bases Manifold End G3/8 PS2815P 1 Each kit contains: plate kit 1 right and 1 left End Plate 3 pcs O-Rings 3 pcs Blanking Plugs 2 pcs Socket Head Cap Screws 2 pcs Flat Washers **D**0 2 pcs Lockwashers 0

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

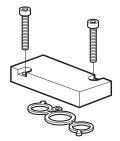
	Order code	Qty
Isolator Plug kit	PS2819P	1



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

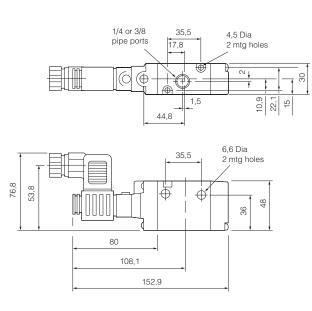




Dimensions, B5 Valve Series

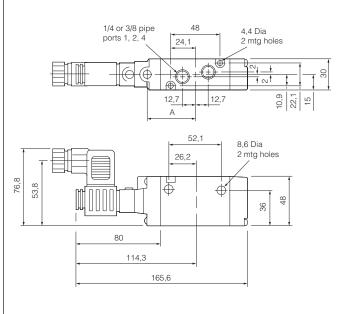
3/2 Body ported

Single solenoid operated air spring return / spring return



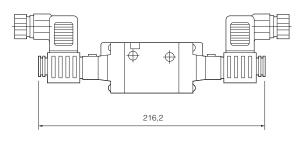
5/2 and 5/3 Body ported

Single solenoid operated air spring return / spring return

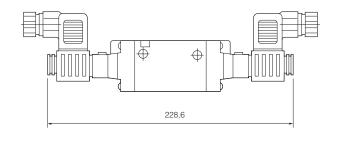


	2 Position	3 Position	
Α	51,1	62,7	

Double solenoid operated



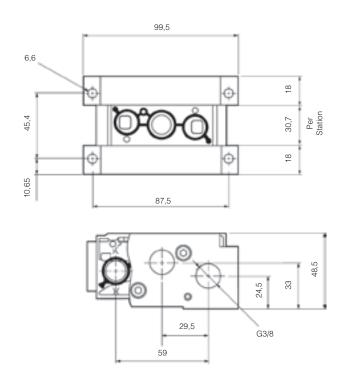
Double solenoid operated





Manifolds - IEM Inlet Exhaust Manifold System

5/2 Inlet Exhaust Manifold For B5 Body Ported Valves



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.



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.

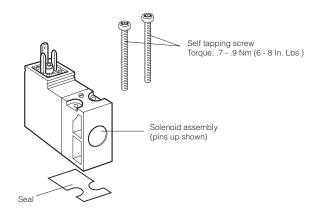


Fig 2.



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 manua override	al	Weight Kg	Order code Override, blue non locking flu	·	Weight Kg	Order code Override, yellc locking flush	DW,
2	12 VDC	0,038	P2E-KV32B0	9	0,038	P2E-KV32B1	9	0,038	P2E-KV32B2	9
	24 VDC	0,038	P2E-KV32C0	9	0,038	P2E-KV32C1	9	0,038	P2E-KV32C2	9
	48 VDC	0,038	P2E-KV32D0	9	0,038	P2E-KV32D1	9	0,038	P2E-KV32D2	9
	24 VAC 50Hz	0,038	P2E-KV31C0	9	0,038	P2E-KV31C1	$^{\odot}$	0,038	P2E-KV31C2	0
	48 VAC 50/60Hz	0,038	P2E-KV34D0	9	0,038	P2E-KV34D1	9	0,038	P2E-KV34D2	9
	115 VAC 50Hz	0,038	P2E-KV31F0	9	0,038	P2E-KV31F1	$^{\odot}$	0,038	P2E-KV31F2	9
	120 VAC 60Hz									
	230 VAC 50Hz	0,038	P2E-KV31J0	9	0,038	P2E-KV31J1	9	0,038	P2E-KV31J2	9
	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

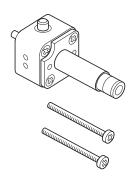
Spare solenoid nuts

Valves with vented exhaust are fitted with diffuser plastic nut



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

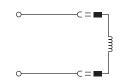


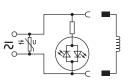
	Order code	Weight (kg)	Qty
Non locking m/o	P2FP13N4D	0.04	1
Locking m/o	P2FP13N4C	0.04	1



Solenoid Connectors / Cable Plugs EN175301-803

	Description	Order code 15mm Form C/ Suitable for B3	Order code 22mm Industrial Fo Suitable for B5 valv	
With large headed screw suitable for	Standard IP65	P8C-C		
mounting in inaccessible or recess position	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		
S.C.	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	



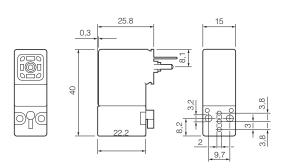


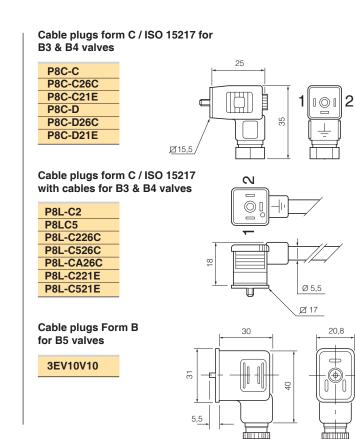
P8C-C	P8C-D26C	P8L-C226C
P8C-D	P8C-D21E	P8L-C526C
P8L-C2	P8C-C26C	P8L-CA26C
P8L-C5	P8C-C21E	P8L-C221E
3EV10V10		P8L-C521E
3EV290V10	3EV10V20-24	3EV10V20-24L5
	3EV10V20-110	3EV10V20-110L5
	3EV10V20-230	3EV10V20-230L5



Cable Plug Dimensions (mm)

Solenoid valves P2E-•V...





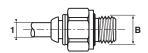
Accessories, Service and Replacement Parts

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	F4PB8-1/4	30
10	G1/4	F4PB10-1/4	20
12	G1/4	F4PB12-1/4	10



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 PS2884	^o (10 valve/manifold gaskets)	PS2884P	
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Solenoid coils for B5 valves

Solenoid coils to suit 'N' enclosure type 22mm 3-Pin Industrial Form ${\rm B}$

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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