

# Directional control Valves

G1/8 & G1/4 Spool valves

Catalogue no: 2131GB-ca



# Directional control valves G<sup>1</sup>/<sub>8</sub> 3/2 - 5/2

### Spool valves 3/2, 5/2 - G<sup>1</sup>/<sub>8</sub> Ports

Available in 3/2 or 5/2 versions, all valves including double pilot and double solenoid types may be mounted in any position, The balanced spool design ensures that operating forces remain unaffected by variations in inlet pressure.

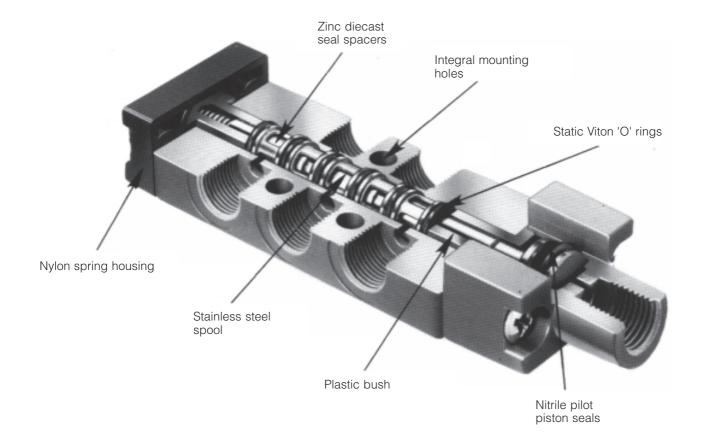
The body is a zinc alloy die-casting with stainless steel spool, sealed by viton rubber 'O' rings. All operating parts exposed to the working fluid are of non-corrosive material and all ports are threaded G¹/s B.S.P. parallel. The block design of the body with its three mounting holes is ideally suited to close banking and all valves may be serviced without disturbing the pipework simply by unscrewing the actuator and return assemblies.

The 3/2 valve can be piped normally open or closed simply by changing the air inlet from the normal inlet port to the exhaust port, and the 5/2 valve can be piped in different variations to suit the application required. Midget spool valves can also be used as impulse type valves, when the signal is required at the end of the cylinder stroke or when the tripping cylinder or machine cam is too small to clear the mechanical trip of the valve.

Operation of the actuator on the 5/2 valve opens the cylinder port nearest to the actuator. On the 3/2 version the inlet is piped to the port furthest away from the actuator for normally closed operation, and to the port nearest the actuator for normally open. Any of the actuators may be fitted with spring or pilot return mechanism. Valves may also be supplied with the same actuator at both ends; e.g. double roller. Roller versions are designed to give a common height on both 3/2 and 5/2 valves to ensure uniformity and efficiency in a multi-valve assembly.

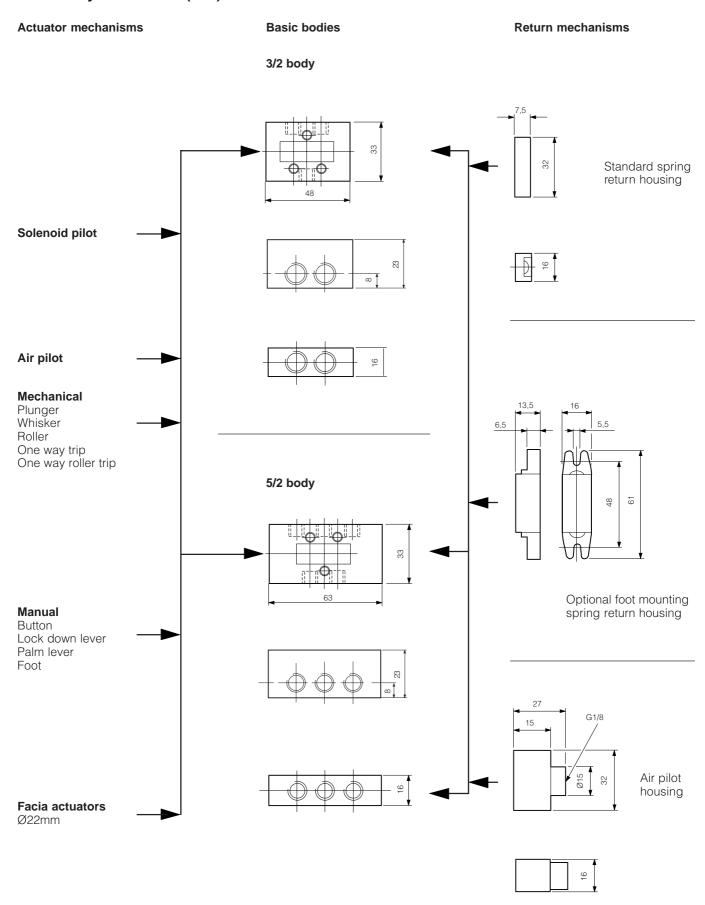
The reasonably short travel and lightweight spool ensures that extremely high operating speeds are possible. A double pilot 5/2 valve has been tested at over 3000 cycles per minute, but for practical purposes the operating speed of the valve is determined by cylinder stroke and bore size.

### **Features**

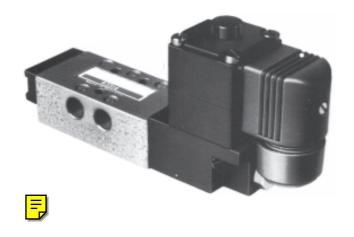




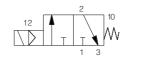
# Basic body dimensions (mm)

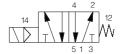


# Solenoid pilot operated - spring return



# **Symbol**





### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body) Nitrile (solenoid)
Spring housing	Plastic

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>8</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

### **Pneumatic information**

Pressure range		Vacuum to 10 bar
Minimum Spring return		3 bar
Nominal Ø		3,2mm
Nominal flow at	7 bar	7 dm³/s
Cv factor		0,24

### **Electrical information**

Power consumption		Inrush	Hold
	AC	9VA	6VA
	DC	5 Watt	
Rating		100% co	ntinuous
Isolating class		F	
Protection class		IP 65 (P 54) DIN 40 050	
Connection		ISO 4400	, BS 56361

# Voltage selection

Suffix	50 Hz	D.C.	
Т	10-13	5-6.5	
TA	20-26	10-13	
TF	44-55	20-26	
TC	85-110	44-55	
S	94-120	47-60	
TS	153-198	76-99	
SA	204-264	102-132	

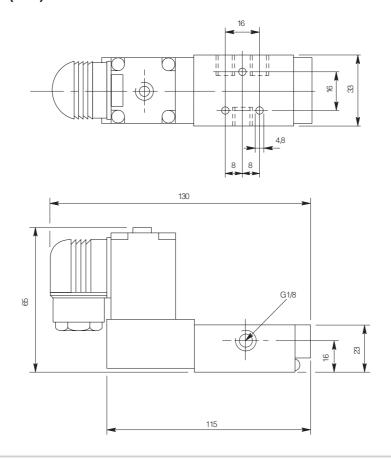
# **Ordering information**

Part nos.	Туре	Actuator	Return	Symbol
LB43313*	3/2	Solenoid pilot	Spring	\ \dag{\dag{\dag{\dag{\dag{\dag{\dag{\d
LB43314*	5/2	Solenoid pilot	Spring	

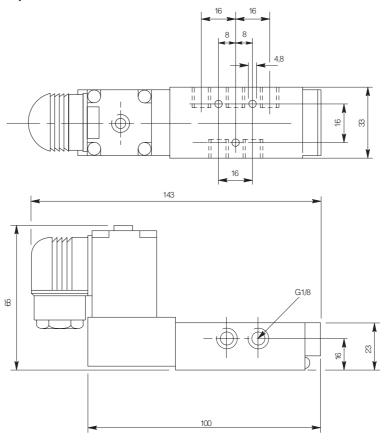
<sup>\*</sup>Specify voltage and add suffix letters For manual override add suffix M to part no.



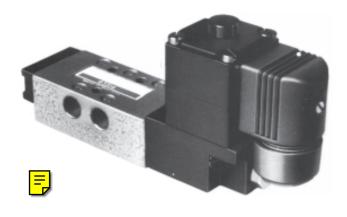




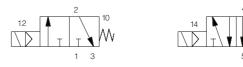
# 5/2 valve dimensions (mm)



# Solenoid pilot operated - pilot return



# **Symbol**



### **Materials**

Body	Aluminium
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body) Nitrile (solenoid)

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>8</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

### **Pneumatic information**

Pressure range		Vacuum to 10 bar
Minimum Spring return		3 bar
Nominal Ø		3,2mm
Nominal flow at	7 bar	7 dm³/s
Cv factor		0,24

### **Electrical information**

Power consumption		Inrush	Hold
	AC	9VA	6VA
	DC	5 Watt	
Rating		100% co	ntinuous
Isolating class		F	
Protection class		IP 65 (P 54) DIN 40 050	
Connection		ISO 4400	, BS 56361

# Voltage selection

Suffix	50 Hz	D.C.	
Т	10-13	5-6.5	
TA	20-26	10-13	
TF	44-55	20-26	
TC	85-110	44-55	
S	94-120	47-60	
TS	153-198	76-99	
SA	204-264	102-132	

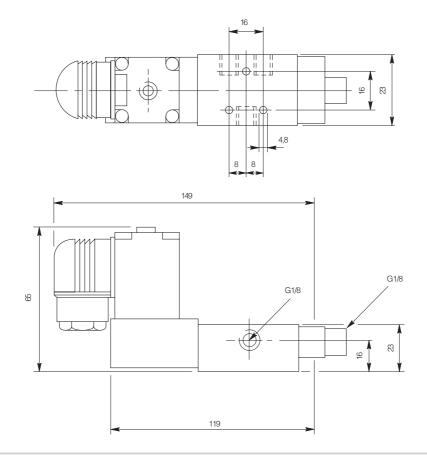
# **Ordering information**

Part nos.	Туре	Actuator	Return	Symbol
LB43333*	3/2	Solenoid pilot	Air pilot	\bar{\bar{\bar{\bar{\bar{\bar{\bar{
LB43334*	5/2	Solenoid pilot	Air pilot	

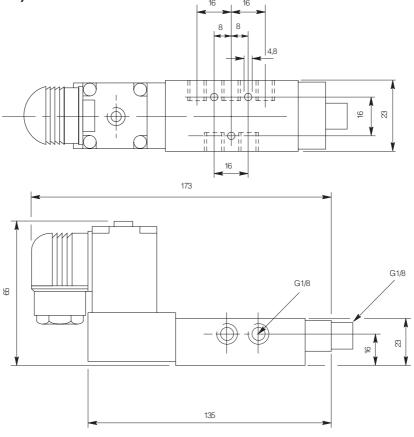
<sup>\*</sup>Specify voltage and add suffix letters For manual override add suffix M to part no.







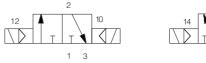
# 5/2 valve dimensions (mm)

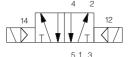


# Double solenoid pilot operated valves



# **Symbol**





### **Materials**

Body	Zinc diecast	
Actuator	Zinc diecast	
Spool	Stainless steel	
Bushes	Brass	
Seals	Viton (valve body) Nitrile (solenoid)	

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>8</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

### **Pneumatic information**

Pressure range		Vacuum to 10 bar	
Minimum	Spring return	3 bar	
Nominal Ø		3,2mm	
Nominal flow at 7 bar		7 dm³/s	
Cv factor		0,24	

### **Electrical information**

Power consumption		Inrush	Hold	
	AC	9VA	6VA	
	DC	5 Watt		
Rating		100% continuous		
Isolating class		F		
Protection class		IP 65 (P 54) DIN 40 050		
Connection		ISO 4400	, BS 56361	

# Voltage selection

Suffix	50 Hz	D.C.	
Т	10-13	5-6.5	
TA	20-26	10-13	
TF	44-55	21-26	
TC	85-110	43-55	
S	94-121	54-69	
TS	153-242	94-121	
SA	204-264	102-132	

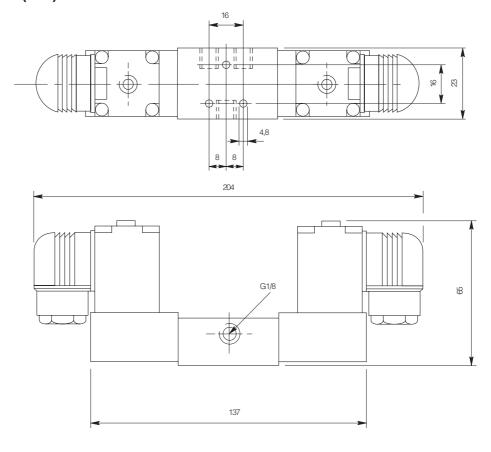
# **Ordering information**

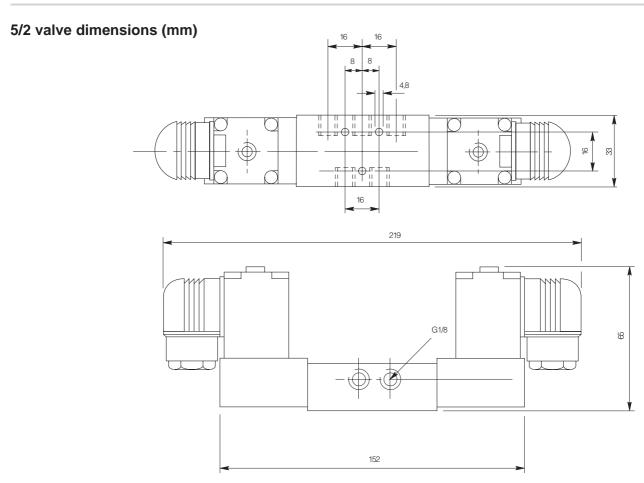
Part nos.	Type	Actuator	Return	Symbol
LB43323*	3/2	Solenoid pilot	Solenoid pilot	
LB43324*	5/2	Solenoid pilot	Solenoid pilot	

<sup>\*</sup>Specify voltage and add suffix letters For manual override add suffix M to part no.











Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Type So	olenoid Actua	ators			
Catalogue:	2120GB, 2131GB, 2135GB, 2123GB					
Date of Issue:	February 20	000				
Bulletin No:	IBL 10064					

# 150 Type Solenoids Obsolete

Due to technical difficulties with supply of the **150 Type Low Profile Solenoids** it has become necessary to make them obsolete with immediate effect.

This change will affect the following valve ranges: -

ISO Size 1 ISO Size 2

Midget G1/8 Spool Valves Intermediate G1/4 Spool valves

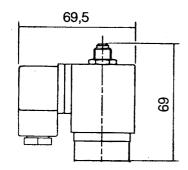
**Direct Acting Solenoid Valves** 

It is planned to change all production on ISO Size 1 and ISO Size 2 immediately and to use the remaining stocks of 150s for the other ranges and progressively introduce the change during the next few months.

# **New 250 Type Solenoids**

To replace the obsolete solenoid a new solenoid is available, the 250 Type Solenoid. The new 250 solenoid is a direct replacement for the old unit and is **fully interchangeable** but has some added advantages. The new solenoid is a post type unit, which means the coil, may be freely orientated through 360 degrees to suit the application, which will make attaching the plug easier. The 5-Watt consumption is identical to the previous unit.

### **Dimensions**



Action Requi	ired				Distribu	ution	
Discard old	Request new	Add bulletin	Contact	Check	1	2	3
Bulletin	Catalogue	to Catalogue	Factory	Stocks			
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK							
Any amendments or additions to be forwarded to the Marketing Department,							

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Fax No 00 44 (0)1543 456032



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Type So	olenoid Actua	ators			
Catalogue:	2120GB, 21	2120GB, 2131GB, 2135GB, 2123GB				
Date of Issue:	February 20	000				
Bulletin No:	IBL 10064					

# Standard valves affected by this product modification

Apollo	<b>Series</b>
ISO Val	ves

Size 1	Size 2	Size 3
19114M* 19124M* 19134MJ* 19134M* 19414M* 19424M* 19434MJ* 19434M*	29114M* 29124M* 29134MJ* 29134M* 29414M* 29424M* 29434MJ* 29434M*	39414M* 39434MJ* 39434M* 39424MX* 39424MY* 39424MZ*
19124MX* 19124MY* 19124MZ* 19124MX* 19424MX* 19424MZ* 19434MX* 19134MX* 19134MZ* 19434MX* 19434MX* 19434MX*	29124MX* 29124MY* 29124MZ* 29424MX* 29424MZ* 29424MZ* 29134MX* 29134MY* 29134MX* 29434MX* 29434MX* 29434MX*	39434MX* 39434MY* 39434MZ*

# Intermediate G1/4 Spool Valves

LB53013* LB53014* LB53033* LB53034* LB53023* LB53024*
LB53024X* LB53024Y* LB53024Z*
LB53034X* LB53034Y* LB53034Z*

# Midget G1/8 Spool Valves

LB43313* LB43314*	
LB43333*	
LB43334*	
LB43323*	
LB43324*	

# Stand Alone Series

# Midget Gang Manifolds

33202* 33203* 33204* 33205* 33206* 33207* 33208*	
33208*	
33209*	
33210*	

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Action Requi	red			Distrib	ution			
Discard old	Request new	Add bulletin	Contact	Check	1	2	3	
Bulletin	Catalogue	to Catalogue	Factory	Stocks				
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK								
Any amendments or additions to be forwarded to the Marketing Department,								
Fax No 00 44 (0)1543 456032								

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<sup>= \*</sup> Solenoid suffix letter



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Series S	Solenoids				
Catalogue:						
Date of Issue:	June 2000					
Bulletin No:	ILB 10065					

# '150' Series Solenoids

Further to Information Bulletin IBL10064, '150' series solenoids are now obsolete and the following valves are now being supplied with new '250' series coils:

'Apollo' Series ISO Valves

'LB53' Series Spool Valves

Size 2	3 Port	5 Port
		0.0.0
29114*	LB53013*	LB53014*
29114M*	LB53013M*	LB53014M*
29124*	LB53023*	LB53024*
29124M*	LB53023M*	LB53024M*
29124MX*	LB53033*	LB53024X*
29124MX	LB53033M*	LB53024MX*
29124Y*	LB53033J*	LB53024Y*
29124MY*		LB53024MY*
29124Z*		LB53024Z*
29124MZ*		LB53024MZ*
29134*		LB53034*
29134M*		LB53034M*
29134J*		LB53034J*
29134MJ*		LB53034MJ*
29134X*		LB53034X*
29134MX*		LB53034MX*
29134Y*		LB53034Y*
29134MY*		LB53034MY*
29134Z*		LB53034Z*
29134MZ*		LB53034M*
	29114M* 29124* 29124M* 29124MX* 29124MX 29124MX 29124Y* 29124MY* 29124Z* 29124MZ* 29134* 29134M* 29134J* 29134MJ* 29134MX* 29134MX* 29134MX* 29134MX*	29114M*     LB53013M*  29124*     LB53023*  29124M*     LB53023M*  29124MX*     LB53033*  29124MX     LB53033M*  29124Y*     LB53033J*  29124Y*  29124Z*  29124Z*  29134M*  29134J*  29134M*  29134M*  29134MX*  29134MX*  29134MX*  29134MX*  29134MX*  29134MX*  29134MY*  29134MY*  29134Z*

<sup>\*</sup> Add voltage suffix letters, see note

Action Required Dis						ution	
Discard old	Request new	Add bulletin	Contact	Check	1	2	3
Bulletin	Catalogue	to Catalogue	Factory	Stocks			
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK							



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Series S	Solenoids				
Catalogue:						
Date of Issue:	June 2000					
Bulletin No:	ILB 10065					

The 'Midget' Series spool valves and solenoid Gang Manifolds will change to the new solenoid over the next couple of months as stocks of '150' series solenoids are used.

The following valves will be effected by the change

Midget Spool Valves	Midget Gang Manifold
LB43313*	33202*
LB43313M*	33202M*
LB43314*	33203*
LB43314M*	33203M*
LB43323*	33204*
LB43323M*	33204M*
LB43324*	33205*
LB43324M*	33205M*
LB43333*	33206*
LB43333M*	33206M*
LB43334*	33207*
LB43334M*	33207M*
	33208*
	33208M*
	33209*
	33209M*
	33210*
	33210M*

<sup>\*</sup> Add voltage suffix letters, see note

Action Required Distribution							
Discard old	Request new	Add bulletin	Contact	Check	1	2	3
Bulletin	Catalogue	to Catalogue	Factory	Stocks			
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK							



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Series S	Solenoids				
Catalogue:						
Date of Issue:	June 2000					
Bulletin No:	ILB 10065					

The single stand-alone 3/2 direct acting Midget Solenoid Valve, 154\*, will be replaced by a new valve on the 1<sup>st</sup> August 2000, Part Number, 254\*

# **Voltage Suffix Letters**

Since the initial introduction of the '150' series solenoids, suffix letters have been used at the end of the Part Number to denote the required voltage range. The voltage ranges on the new '250' series can in some cases replace two or more of the previously used ranges, see comparison chart shown below.

'250' Series Suffix letters	Voltage			Replaces '150' Suffix letters
Replace '*' with letters	50Hz.ac	60Hz.ac	DC	
'S'	110	110		'S', 'SC', 'TP'
'T'	12	12		'T', 'TE'
'TA'	24	24		'TA', 'TM'
'TC'			48	'TC'
'TF'			24	'TF'
'TL'	230	230	90	'TL', 'SA', 'TK', 'TS', 'TT'

# **Replacement Solenoids**

Discard old Request new Bulletin Catalogue Factory	Check Stocks	1	2	3				
			1					
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK								

<sup>\*</sup> Add voltage suffix letters, see note.



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Series S	Solenoids				
Catalogue:						
Date of Issue:	June 2000					
Bulletin No:	ILB 10065					

We will continue to supply replacement solenoid assemblies, '150C\*' and '150CM\*', until stocks are exhausted, however, it will be possible to convert valves fitted with these assemblies to the new type solenoid by use of a conversion kit.

The '250' series solenoid uses a slipover coil, therefore once converted, the coil only will be available as a replacement kit.

'250' Solenoid conversion kit	'250' Replacement Coil kit
250C*	250R*
250CM* with locking type manual override	250R*

<sup>\*</sup> Add voltage suffix letters from chart above.

Action Required Distribution									
Discard old	Request new	Add bulletin	Contact	Check	1	2	3		
Bulletin	Catalogue	to Catalogue	Factory	Stocks					
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK									
	leeded from the marketing Department, Farker Filedinate, Carmook								



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products			
Title:	3035 Series	3035 Series CNOMO Solenoids						
Catalogue:								
Date of Issue:	June 2000							
Bulletin No:	IBL10066							

# '3035' Series 'CNOMO' Solenoids

Following the obsolescence of the '150' series solenoid coil, it has become necessary to replace the '3035' series CNOMO solenoid with a new '350' Series.

As the '350' series conform to the recognised 'CNOMO' standard they are directly interchangeable with the '3035' series. The following valves will now be fitted with the new '350 series coils :

'Apollo' Series ISO Valves with CNOMO coils

Size 1	Size 2	Size 3
19414*	29414*	39414*
19414M*	29414M*	39414M*
19414N*	29414N*	39414N*
19424*	29424*	39424*
19424M*	29424M*	39424M*
19424N*	29424N*	39424N*
19424X*	29424X*	39424X*
19424MX*	29424MX*	39424MX*
19424NX*	29424NX*	39424NX*
19424Y*	29424Y*	39424Y*
19424MY*	29424MY*	39424MY*
19424NY*	29424NY*	39424NY*
19424Z*	29424Z*	39424Z
19424MZ*	29424MZ*	39424MZ*
19424NZ*	29424NZ*	39424NZ*
19434*	29434*	39434*
19434M*	29434M*	39434M*
19434N*	29434N*	39434N*
19434J*	29434J*	39434J*
19434MJ*	29434MJ*	39434MJ*
19434NJ*	29434NJ*	39434NJ*
19434X*	29434X*	39434X*

Action Required Distribution									
Discard old	Request new	Add bulletin	Contact	Check	1	2	3		
Bulletin	Catalogue	to Catalogue	Factory	Stocks					
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK									



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products			
Title:	3035 Series	3035 Series CNOMO Solenoids						
Catalogue:								
Date of Issue:	June 2000							
Bulletin No:	IBL10066							

19434MX*	29434MX*	39434MX*
19434NX*	29434NX*	39434NX*
19434Y*	29434Y*	39434Y*
19434MY*	29434MY*	39434MY*
19434NY*	29434NY*	39434NY*
19434Z*	29434Z*	39434Z*
19434MZ*	29434MZ*	39434MZ*
19434NZ*	29434NZ*	39434NZ*

<sup>\*</sup> Add voltage suffix letters, see note

M = Solenoid with locking manual override

N = Solenoid with non locking manual override

# **Voltage Suffix Letters**

Since the initial introduction of the '3035' series solenoids, suffix letters have been used at the end of the Part Number to denote the required voltage range. The voltage ranges on the new '350' series can in some cases replace two or more of the previously used ranges, see comparison chart shown below.

'350' Series Suffix letters		Voltage		Replaces '3035' Suffix letters
Replace '*' with letters	50Hz.ac	60Hz.ac	DC	
'S'	110	110	50	'S', 'SC', 'TP'
'T'	12	12	6	'T', 'TE'
'TA'	24	24	11	'TA', 'TM'
'TF'	48	48	24	'TF'
'TL'	230	230	120	'TL', 'SA', 'TK', 'TT'

# **Replacement Solenoids**

Action Required Distribution									
Discard old	Request new	Add bulletin	Contact	Check	1	2	3		
Bulletin	Catalogue	to Catalogue	Factory	Stocks					
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK									
issued from the marketing Department, Farker Friedmatic, Calmock – OK									



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products			
Title:	3035 Series	3035 Series CNOMO Solenoids						
Catalogue:								
Date of Issue:	June 2000							
Bulletin No:	IBL10066							

The complete 'CNOMO' solenoid assemblies can be supplied as replacements, order using the Part Numbers shown below :

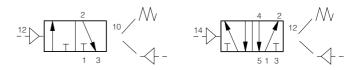
Voltage	Without manual override	Non-locking manual override	Locking manual override	Valve suffix
12 v 50/60Hz / 6vdc	P2G-PV34B0	P2G-PV34B1	P2G-PV34B2	Т
24 v 50/60Hz / 12vdc	P2G-PV34C0	P2G-PV34C1	P2G-PV34C2	TA
48 v 50/60Hz / 24vdc	P2G-PV32C0	P2G-PV32C1	P2G-PV32C2	TF
110 v 50/60Hz / 50vdc	P2G-PV34E0	P2G-PV34E1	P2G-PV34E2	S
230 v 50/60Hz / 120vdc	P2G-PV34J0	P2G-PV34J1	P2G-PV34J2	TL

Action Requ	Distribution						
Discard old	Request new	Add bulletin	Contact	Check	1	2	3
Bulletin	Catalogue	to Catalogue	Factory	Stocks			
Issued	d from the Mark	eting Departme	nt, Parker	Pneumatic	, Canno	ck – UK	

# Air pilot operated valves



# Symbol



### **Materials**

Zinc diecast
Zinc diecast
Stainless steel
Brass
Viton (valve body)
Nylon

# **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>8</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

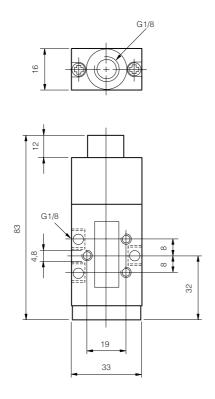
### **Pneumatic information**

Pressure range		Vacuum to 10 bar
Minimum	Spring return	3 bar
pilot pressure	Air pilot return	2 bar
Nominal Ø		3,2mm
Nominal flow at 7	7 bar	7 dm³/s
Cv factor		0,24

# **Ordering information**

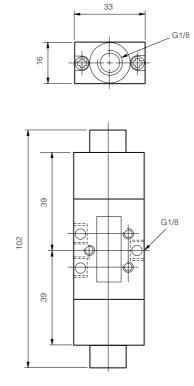
Part nos.	Type	Actuator	Return	Symbol	
B43003PS	3/2	Air pilot	Spring		
B43004PS	5/2	Air pilot	Spring		
B43003PP	3/2	Air pilot	Air pilot	<del></del>	
B43004PP	5/2	Air pilot	Air pilot		

# Air pilot operated spring return



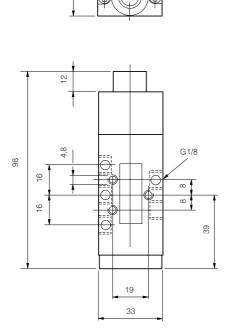
G1/8

# Air pilot operated Air pilot return

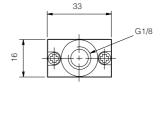


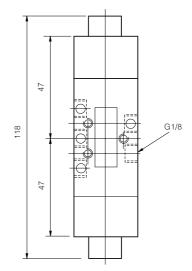
# 5/2 valve dimensions (mm)

# Air pilot operated spring return



# Air pilot operated Air pilot return





# Diaphragm operated valves



# **Symbol**

### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton
Spring housing	Zinc diecast
Diaphragm	Nitrile

# **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>8</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

### **Pneumatic information**

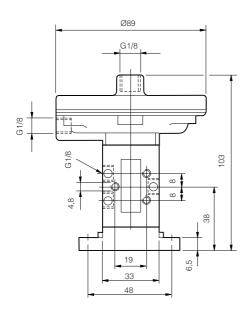
Pressure range	Vacuum to 10 bar		
Minimum Spring return		0,3 bar	
pilot pressure Diaphragm return		0,13 bar	
Nominal Ø		3,2mm	
Nominal flow at 7	7 bar	7 dm³/s	
Cv factor		0,24	

# **Ordering information**

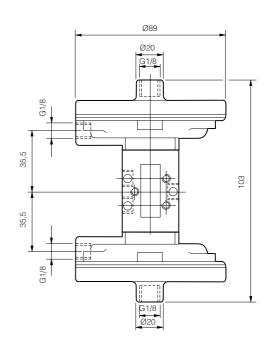
Part nos.	Туре	Actuator	Return	Symbol
B43003DF	3/2	Diaphragm	Spring	
B43004DF	5/2	Diaphragm	Spring	
B43003DD	3/2	Diaphragm	Diaphragm	
B43004DD	5/2	Diaphragm	Diaphragm	
B43004D-50	Mounting I	bracket kit		

Comprises: 1 bracket, 3 bolts and nuts

# Diaphragm operated spring return

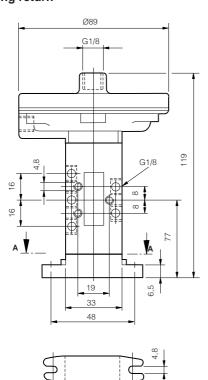


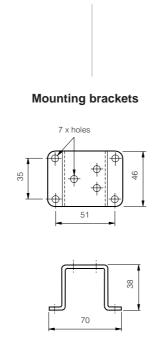
# Diaphragm operated Diaphragm return



# 5/2 valve dimensions (mm)

# Diaphragm operated spring return



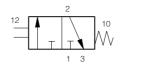


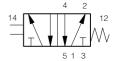
# 

# Mechanically operated valves



# **Symbol**





### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton
Spring housing	Nylon

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>8</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

### **Pneumatic information**

Pressure range	Vacuum to 10 bar
Minimum pilot pressure	3 bar
Nominal Ø	3,2mm
Nominal flow at 7 bar	7 dm <sup>3</sup> /s
Cv factor	0,24

# **Ordering information**

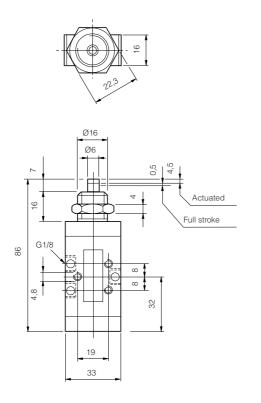
Part nos.	Туре	Actuator	Return	Symbol	Optional air pilot return
B43003CS	3/2	Plunger	Spring		
B43004CS	5/2	Plunger	Spring		
B43003W	3/2	Whisker normally closed	Spring	-CIT T T	
B43004WO	5/2	Whisker normally open	Spring		
B43004W	5/2	Whisker	Spring		

**Note:** All valves featured on this page are available with an air pilot return mechanism.

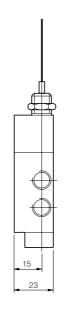
To order delete  ${}^{\backprime}$ S $^{\backprime}$  for spring and add  ${}^{\backprime}$ P $^{\backprime}$ . e.g. **B43003CP** For dimensions of air pilot housing see page 3.

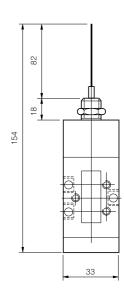


# Plunger operated spring return



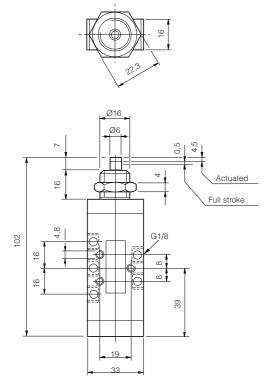
# Whisker operated spring return



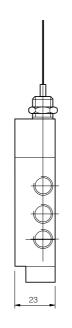


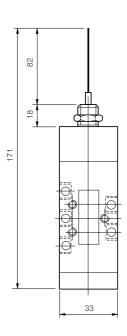
# 5/2 valve dimensions (mm)

# Plunger operated spring return

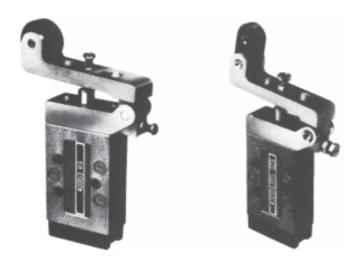


# Whisker operated spring return

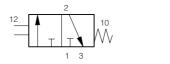


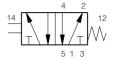


# Mechanically operated valves



# **Symbol**





## **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton
Spring housing	Nylon

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>8</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

### **Pneumatic information**

Pressure range	Vacuum to 10 bar
Minimum pilot pressure	3 bar
Nominal Ø	3,2mm
Nominal flow at 7 bar	7 dm <sup>3</sup> /s
Cv factor	0,24

# **Ordering information**

Part nos.	Туре	Actuator	Return	Symbol	Optional air pilot return
B43003RS	3/2	Roller	Spring		
B43004RS	5/2	Roller	Spring		
B43003RTS	3/2	One way roller trip	Spring		
B43004RTS	5/2	One way roller trip	Spring		
B43003RT	3/2	One way trip	Spring		_
B43004RT	5/2	One way trip	Spring		_

**Note:** All valves featured on this page are available with an air pilot return mechanism.

To order delete 'S' for spring and add 'P'. e.g.  $\bf B43003CP$  For dimensions of air pilot housing see page 3.

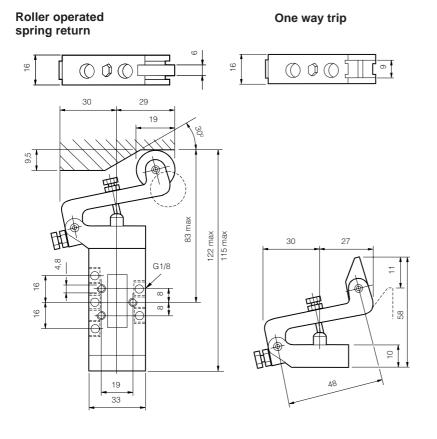


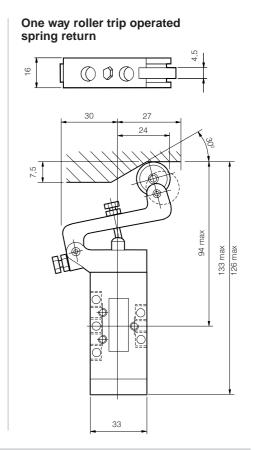
# Roller operated spring return One way trip GI/B GI/

# One way roller trip operated spring return Strain and the strain

33

### 5/2 valve dimensions (mm)



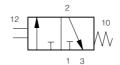


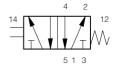
# Manually operated valves





# **Symbol**





### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton
Spring housing	Nylon

# **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>8</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

### **Pneumatic information**

Pressure range	Vacuum to 10 bar
Minimum pilot pressure	3 bar
Nominal Ø	3,2mm
Nominal flow at 7 bar	7 dm³/s
Cv factor	0,24

# **Ordering information**

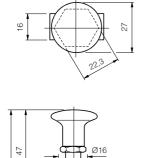
Part nos.	Туре	Actuator	Return	Symbol	Optional air pilot return
B43003BS	3/2	Button	Spring		
B43004BS	5/2	Button	Spring		
B43003HS	3/2	Button	Button		
B43004HS	5/2	Button	Button		
B43003LS	3/2	Lock down lever	Spring	Z T T W	
B43004LS	5/2	Lock down lever	Spring		_

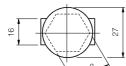
**Note:** All valves featured on this page are available with an air pilot return mechanism.

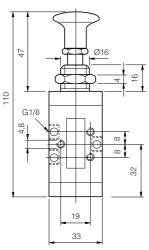
To order delete  ${}^{\backprime}\!\!S{}^{\backprime}$  for spring and add  ${}^{\backprime}\!\!P{}^{\backprime}.$  e.g. B43003CP For dimensions of air pilot housing see page 3.



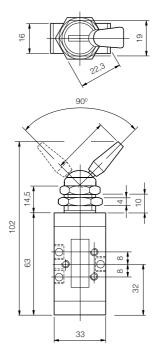
### **Button operated** spring or button return





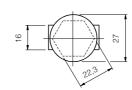


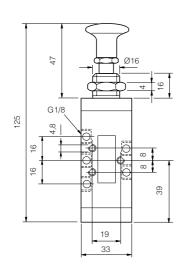
### Lock down lever operated spring return



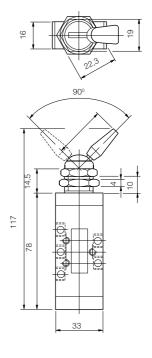
# 5/2 valve dimensions (mm)

### **Button operated** spring or button return

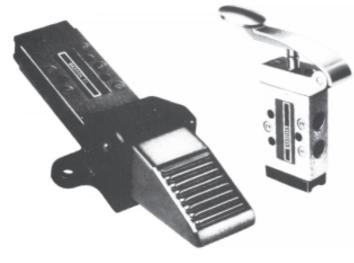




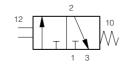
### Lock down lever operated spring return

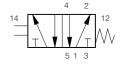


# Manually operated valves



# **Symbol**





### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton
Spring housing	Nylon

# **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>8</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

### **Pneumatic information**

Pressure range	Vacuum to 10 bar
Minimum pilot pressure	3 bar
Nominal Ø	3,2mm
Nominal flow at 7 bar	7 dm <sup>3</sup> /s
Cv factor	0,24

# **Ordering information**

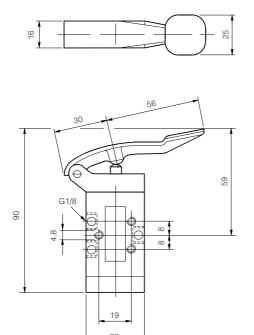
Part nos.	Туре	Actuator	Return	Symbol	Optional air pilot return
B43003ES	3/2	Palm lever	Spring	ŽĮ <sub>T</sub> W	
B43004ES	5/2	Palm lever	Spring		
B43003FS	3/2	Foot pedal	Spring	✓ T <sub>T</sub> W	
B43004FS	5/2	Foot pedal	Spring	✓ TWIN	

**Note:** All valves featured on this page are available with an air pilot return mechanism.

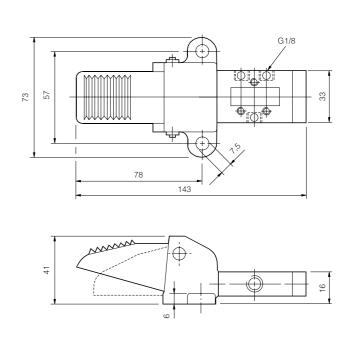
To order delete  ${}^{\bf 'S'}$  for spring and add  ${}^{\bf 'P'}.~e.g.~{\bf B43003CP}$  For dimensions of air pilot housing see page 3.



# Palm lever operated spring return

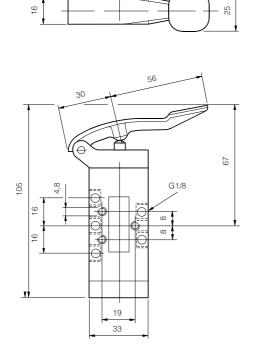


# Foot pedal operated spring return

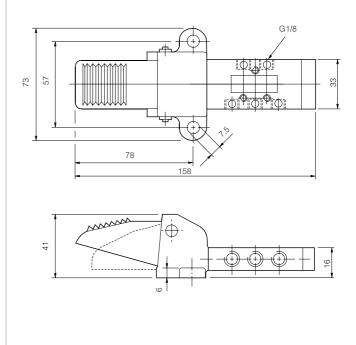


# 5/2 valve dimensions (mm)

# Palm lever operated spring return



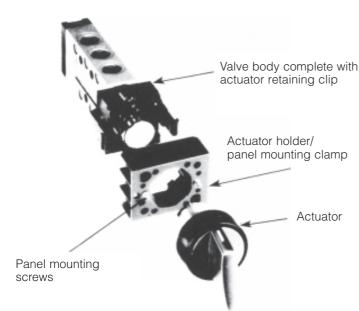
# Foot pedal operated spring return



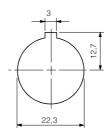


# Facia actuators Ø22mm, G1/8 3/2 - 5/2

## The system



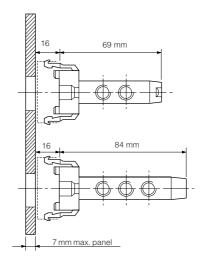
### Ø22mm



## Basic valve with adaptor

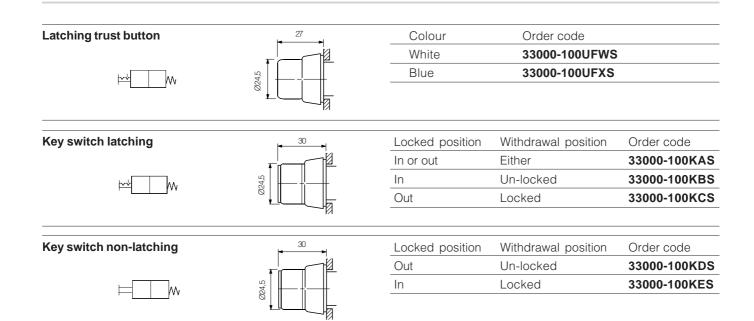
Part no.	Туре	Symbol
B43003-100A	3/2	12 10
B43004-100A	5/2	14 12 12 12 5 1 3

# **Dimensions (mm)**



### **Mounting**

Assembly is simple; the actuators fit into the holder/panel mounting clamp with bayonet fixing. The panel mounting screws may then be tightened up to the panel as required and the valve body assembly clipped on. No seals or special tools are required, interchanging actuators or valve body assemblies is equally simple.



Key switch 'stay-put'	12	-	wl position ther	Order code 33000-100KFS
<b>₩</b>				
Emergency button	41 11	Colour	Order code	Туре
		Red	33000-100BEYS	Ø40 Mushroom, key releas
	040	Red	33000-100BGYS	Ø40 Mushroom latching
		Red	33000-100BPYS	Raised latching button
	<u>+</u> _\J	Red	33000-100BRYS	Ø70 Mushroom latching
lush push button		Colour		Order code
	12	Yellow	3	3000-100BATS
		Blue	3	3000-100BAUS
4	ις   =	White	3	3000-100BAWS
	029,5	Black	3	3000-100BAXS
		Red	3	3000-100BAYS
		Green	3	3000-100BAZS
aised push button		Colour		Order code
		Yellow	3	3000-100BBTS
	824.5	Blue	3	3000-100BBUS
( <u> </u>	000	Black	3	3000-100BBXS
		Red	3	3000-100BBYS
ush button with boot		Colour		Order code
	12	Yellow	3	3000-100BCTS
		Blue		3000-100BCUS
₩ .		White		3000-100BCWS
V—	929/2	Black	3	3000-100BCXS
		Red	3	3000-100BCYS
	121	Green	3	3000-100BCZS
atching selector knob	27	Colour		Order code
atoming colocio. Kilob		White	3	3000-100UAWS
ارم السام المام الم		Black		3000-100UAXS
/ <sup>~</sup>	72	Red		33000-100UAYS
		Green		33000-100UAZS
on latabing aslasta; land	27	Oaless		Order as de
on latching selector knob	<del>    </del>	Colour White		Order code
<u> </u>		Black		3000-100UBWS 3000-100UBXS
ÆW	22	Red		3000-1000BXS
		Green		3000-1000B13
20mm Mustans and 1		0 - 1		Ovelou or -! -
330mm Mushroom button	28	Colour White	2	Order code
. ——	†  / L			
A . [		Plack	*1	3UUU-1UUD U V C
( <del> </del>		Black Red		3000-100BDXS 3000-100BDYS





# Directional Control Valves

G<sup>1</sup>/<sub>4</sub>, 3/2, 5/2, 3/3 and 5/3 Spool valves



# Directional control valves G<sup>1</sup>/<sub>4</sub>

### 3/2, 5/2, 3/3, 5/3 Spool Valves G<sup>1</sup>/<sub>4</sub> Ports

This quality and proven range of valves feature a block form zinc diecast body passivated to prevent corrosion and designed to allow complete interchangeability of actuators and return mechanisms. The stainless steel spool is sealed by synthetic viton 'O' rings, with unique seal spacers to ensure full air flow through the open ports. Non corrosive materials are used on all operating parts exposed to the working fluid.

Individual valves may be mounted in any position, the block form construction in particularly convenient for compact banking. Valves may be serviced in-situ by removal of the actuator, facilitating extraction of the spool and 'O' rings.

Tell-tale indicators on both solenoid and pilot operated valves can be used to check the position of the main spool or as a manual over-ride.

Operation of the actuator on the 5/2 valve opens the cylinder port nearest to the actuator. On the 3/2 version the inlet is piped to the port furthest away from the actuator for normally closed operation, and to the port nearest the actuator for normally open. Any of the actuators may be fitted with spring or pilot return mechanism. Valves may also be supplied with the same actuator at both ends; e.g. double roller. Roller versions are designed to give a common height on both 3/2 and 5/2 valves to ensure uniformity and efficiency in a multi-valve assembly.

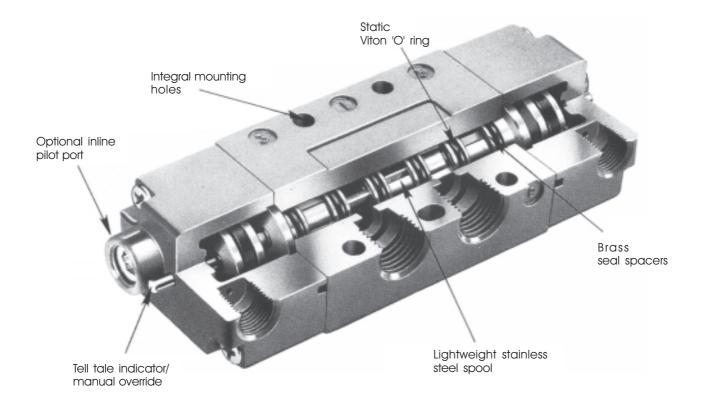
Centre position valves; either spring to centre or 3-position (detented mid-position) are available in the following configurations:

Neutral X - Spool in mid-position - all ports closed.

Negative Y - Spool in mid-position - Cylinder ports open to exhaust, inlet closed.

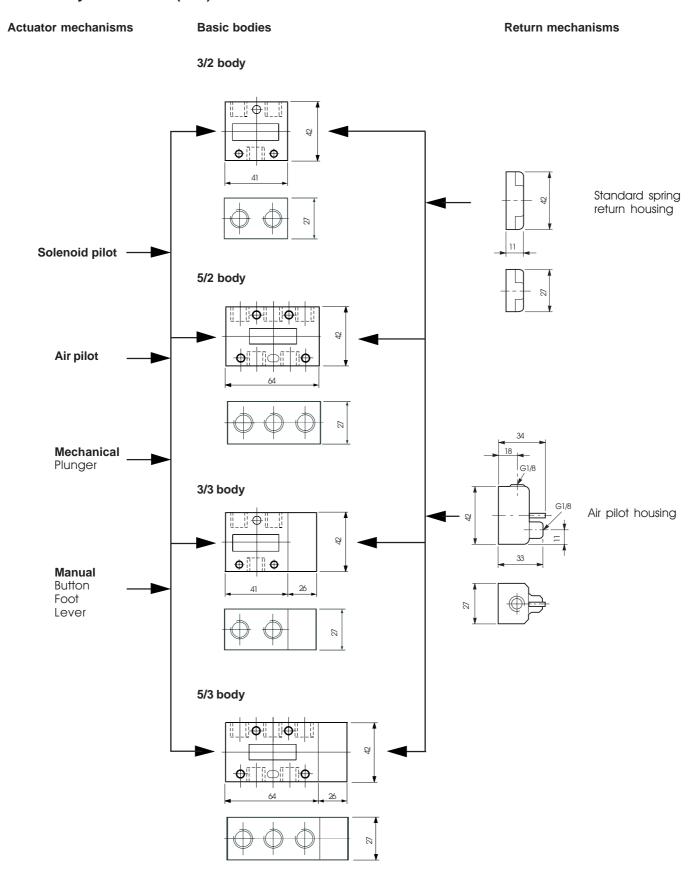
Positive Z - Spool in mid-position - both cylinder ports open to inlet, exhaust closed.

### **Features**

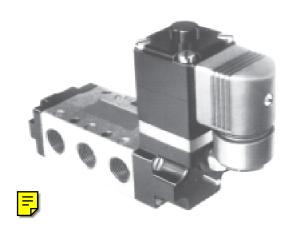




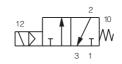
# Basic body dimensions (mm)



# Solenoid pilot operated 5 watt solenoid



# **Symbol**





### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body) Nitrile (actuators)
Spring housing	Nylon (acetal resin)

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

### **Pneumatic information**

Pressure range	0 to 10 bar
Minimum pilot pressure	2,7 bar
Nominal Ø	7mm
Nominal flow at 7 bar	26 dm³/s

### **Electrical information**

Power consumption		Inrush	Hold
	AC	14VA	9VA
	DC	5 Watt	
Rating		100% ED	
Isolating class		F	
Protection class		IP 65 (P 54) DIN 40 050	
Connection		DIN 43 650 Form B	

# Voltage selection

Suffix	50 Hz	D.C.	
Т	10-13	5-6.5	
TA	2-26	10-13	
TF	44-55	21-26	
TC	85-110	43-55	
S	94-121	54-69	
TS	153-242	94-121	
SA	204-264	102-132	

# **Ordering information**

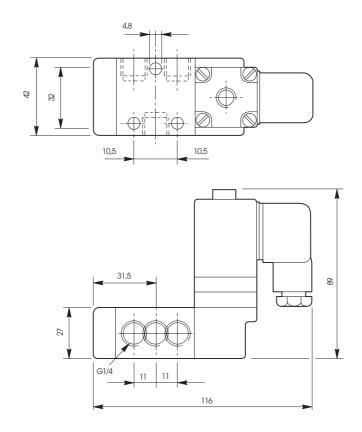
Part nos.	Туре	Actuator	Return	Symbol
LB53013*	3/2	Solenoid pilot	Spring	ND T N
LB53014*	5/2	Solenoid pilot	Spring	

<sup>\*</sup>Specify voltage and add suffix letters For manual override add suffix M.

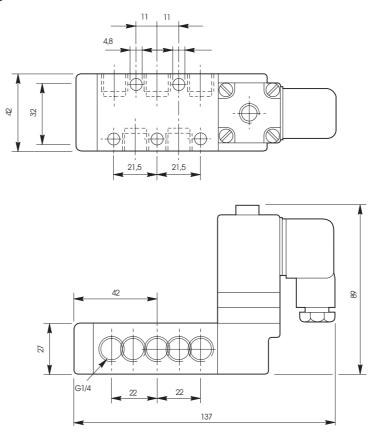


## 3/2 valve dimensions (mm)





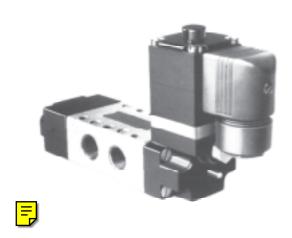
## 5/2 valve dimensions (mm)



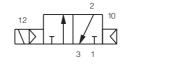


# Directional control valves G1/4, 3/2 - 5/2

# Solenoid pilot operated 5 watt solenoid



### **Symbol**





#### **Materials**

Body	Aluminium
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body) Nitrile (actuators)

## **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

#### **Pneumatic information**

Pressure range	0 to10 bar
Minimum pilot pressure	2,7 bar
Nominal Ø	7mm
Nominal flow at 7 bar	26 dm³/s

#### **Electrical information**

Power consumption		Inrush	Hold
	AC	14VA	9VA
	DC	5 Watt	
Rating		100% ED	
Isolating class		F	
Protection class		IP 65 (P 54) DIN 40 050	
Connection		DIN 43 650 Form B	

### **Voltage selection**

Suffix	50 Hz	D.C.	
Т	10-13	5-6.5	
TA	2-26	10-13	
TF	44-55	21-26	
TC	85-110	43-55	
S	94-121	54-69	
TS	153-242	94-121	
SA	204-264	102-132	

## **Ordering information**

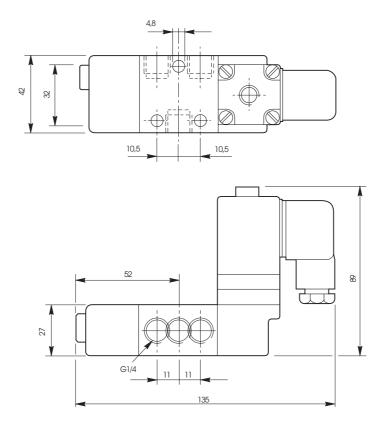
Part nos.	Туре	Actuator	Return	Symbol
LB53033*	3/2	Solenoid pilot	Air pilot	
LB53034*	5/2	Solenoid pilot	Air pilot	

<sup>\*</sup>Specify voltage and add suffix letters For manual override add suffix M.

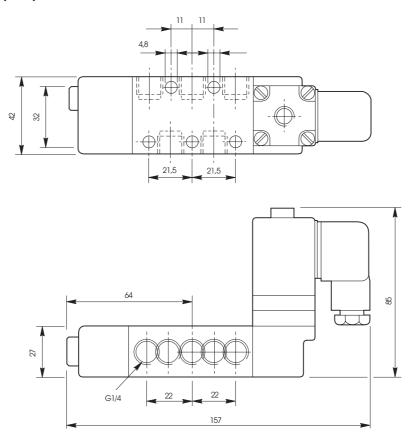


## 3/2 valve dimensions (mm)



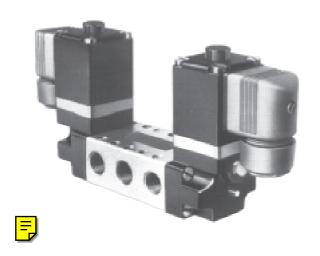


## 5/2 valve dimensions (mm)

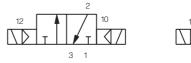


# Directional control valves G1/4, 3/2 - 5/2

# Solenoid pilot operated 5 watt solenoid



## **Symbol**





#### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body) Nitrile (actuators)

#### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

#### **Pneumatic information**

Pressure rang	e	0 to10 bar	
Minimum	Spring return	2,7 bar	
Nominal Ø		7mm	
Nominal flow a	at 7 bar	26 dm³/s	

#### **Electrical information**

Power consumption		Inrush	Hold
	AC	14VA	9VA
	DC	5 Watt	
Rating		100% ED	
Isolating class		F	
Protection class		IP 65 (P 54) DIN 40 050	
Connection		DIN 43 650 Form B	

## Voltage selection

Suffix	50 Hz	D.C.	
Т	10-13	5-6.5	
TA	2-26	10-13	
TF	44-55	21-26	
TC	85-110	43-55	
S	94-121	54-69	
TS	153-242	94-121	
SA	204-264	102-132	

## **Ordering information**

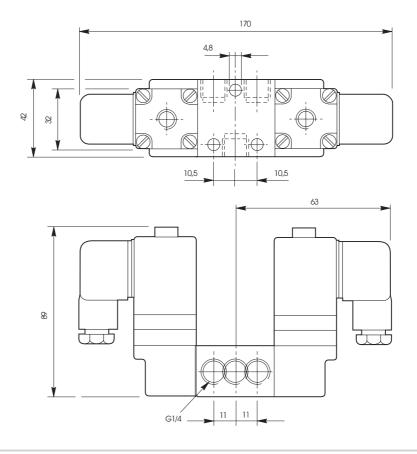
Part nos.	Туре	Actuator	Return	Symbol
LB53033*	3/2	Solenoid pilot	Air pilot	
LB53034*	5/2	Solenoid pilot	Air pilot	

<sup>\*</sup>Specify voltage and add suffix letters For manual override add suffix M.

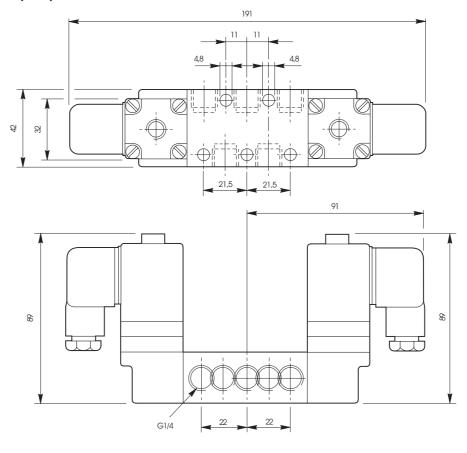


## 3/2 valve dimensions (mm)





## 5/2 valve dimensions (mm)





Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products		
Title:	150 Type Solenoid Actuators						
Catalogue:	2120GB, 2131GB, 2135GB, 2123GB						
Date of Issue:	February 2000						
Bulletin No:	IBL 10064						

## 150 Type Solenoids Obsolete

Due to technical difficulties with supply of the **150 Type Low Profile Solenoids** it has become necessary to make them obsolete with immediate effect.

This change will affect the following valve ranges: -

ISO Size 1 ISO Size 2

Midget G1/8 Spool Valves Intermediate G1/4 Spool valves

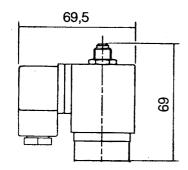
**Direct Acting Solenoid Valves** 

It is planned to change all production on ISO Size 1 and ISO Size 2 immediately and to use the remaining stocks of 150s for the other ranges and progressively introduce the change during the next few months.

## **New 250 Type Solenoids**

To replace the obsolete solenoid a new solenoid is available, the 250 Type Solenoid. The new 250 solenoid is a direct replacement for the old unit and is **fully interchangeable** but has some added advantages. The new solenoid is a post type unit, which means the coil, may be freely orientated through 360 degrees to suit the application, which will make attaching the plug easier. The 5-Watt consumption is identical to the previous unit.

#### **Dimensions**



Action Required Distribution								
Discard old	Request new	Add bulletin	Contact	Check	1	2	3	
Bulletin	Catalogue	to Catalogue	Factory	Stocks				
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK								
Any amendments or additions to be forwarded to the Marketing Department,								

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Fax No 00 44 (0)1543 456032



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products			
Title:	150 Type So	150 Type Solenoid Actuators						
Catalogue:	2120GB, 21	2120GB, 2131GB, 2135GB, 2123GB						
Date of Issue:	February 2000							
Bulletin No:	IBL 10064							

## Standard valves affected by this product modification

Apollo	<b>Series</b>
ISO Val	ves

Size 1	Size 2	Size 3
19114M* 19124M* 19134MJ* 19134M* 19414M* 19424M* 19434MJ* 19434M*	29114M* 29124M* 29134MJ* 29134M* 29414M* 29424M* 29434MJ* 29434M*	39414M* 39434MJ* 39434M* 39424MX* 39424MY* 39424MZ*
19124MX* 19124MY* 19124MZ* 19124MX* 19424MX* 19424MZ* 19434MX* 19134MX* 19134MZ* 19434MX* 19434MX* 19434MX*	29124MX* 29124MY* 29124MZ* 29424MX* 29424MZ* 29424MZ* 29134MX* 29134MY* 29134MX* 29434MX* 29434MX* 29434MX*	39434MX* 39434MY* 39434MZ*

# Intermediate G1/4 Spool Valves

LB53013* LB53014* LB53033* LB53034* LB53023* LB53024*
LB53024X* LB53024Y* LB53024Z*
LB53034X* LB53034Y* LB53034Z*

## Midget G1/8 Spool Valves

LB43313* LB43314*	
LB43333*	
LB43334*	
LB43323*	
LB43324*	

# Stand Alone Series

## Midget Gang Manifolds

33202* 33203* 33204* 33205* 33206* 33207* 33208*	
33208*	
33209*	
33210*	

Page 2:2

Action Required					Distrib	ution			
Discard old	Request new	Add bulletin	Contact	Check	1	2	3		
Bulletin	Catalogue	to Catalogue	Factory	Stocks					
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK									
Any amendments or additions to be forwarded to the Marketing Department,									
	Fax No 00 44 (0)1543 456032								

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<sup>= \*</sup> Solenoid suffix letter



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Series S	Solenoids				
Catalogue:						
Date of Issue:	June 2000					
Bulletin No:	ILB 10065					

## '150' Series Solenoids

Further to Information Bulletin IBL10064, '150' series solenoids are now obsolete and the following valves are now being supplied with new '250' series coils:

'Apollo' Series ISO Valves

'LB53' Series Spool Valves

Size 2	3 Port	5 Port
		0.0.0
29114*	LB53013*	LB53014*
29114M*	LB53013M*	LB53014M*
29124*	LB53023*	LB53024*
29124M*	LB53023M*	LB53024M*
29124MX*	LB53033*	LB53024X*
29124MX	LB53033M*	LB53024MX*
29124Y*	LB53033J*	LB53024Y*
29124MY*		LB53024MY*
29124Z*		LB53024Z*
29124MZ*		LB53024MZ*
29134*		LB53034*
29134M*		LB53034M*
29134J*		LB53034J*
29134MJ*		LB53034MJ*
29134X*		LB53034X*
29134MX*		LB53034MX*
29134Y*		LB53034Y*
29134MY*		LB53034MY*
29134Z*		LB53034Z*
29134MZ*		LB53034M*
	29114M* 29124* 29124M* 29124MX* 29124MX 29124MX 29124Y* 29124MY* 29124Z* 29124MZ* 29134* 29134M* 29134J* 29134MJ* 29134MX* 29134MX* 29134MX* 29134MX*	29114M*     LB53013M*  29124*     LB53023*  29124M*     LB53023M*  29124MX*     LB53033*  29124MX     LB53033M*  29124Y*     LB53033J*  29124Y*  29124Z*  29124Z*  29134M*  29134J*  29134M*  29134M*  29134MX*  29134MX*  29134MX*  29134MX*  29134MX*  29134MX*  29134MY*  29134MY*  29134Z*

<sup>\*</sup> Add voltage suffix letters, see note

Action Requi	ired	Distribution						
Discard old	Request new	Add bulletin	Contact	Check	1	2	3	
Bulletin	Catalogue	to Catalogue	Factory	Stocks				
Issued	Issued from the Marketing Department, Parker Pneumatic, Cannock – UK							



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Series S	Solenoids				
Catalogue:						
Date of Issue:	June 2000					
Bulletin No:	ILB 10065					

The 'Midget' Series spool valves and solenoid Gang Manifolds will change to the new solenoid over the next couple of months as stocks of '150' series solenoids are used.

The following valves will be effected by the change

Midget Spool Valves	Midget Gang Manifold
LB43313*	33202*
LB43313M*	33202M*
LB43314*	33203*
LB43314M*	33203M*
LB43323*	33204*
LB43323M*	33204M*
LB43324*	33205*
LB43324M*	33205M*
LB43333*	33206*
LB43333M*	33206M*
LB43334*	33207*
LB43334M*	33207M*
	33208*
	33208M*
	33209*
	33209M*
	33210*
	33210M*

<sup>\*</sup> Add voltage suffix letters, see note

Action Required Distribution						ution		
Discard old	Request new	Add bulletin	Contact	Check	1	2	3	
Bulletin	Catalogue	to Catalogue	Factory	Stocks				
Issued	Issued from the Marketing Department, Parker Pneumatic, Cannock – UK							



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Series S	Solenoids				
Catalogue:						
Date of Issue:	June 2000					
Bulletin No:	ILB 10065					

The single stand-alone 3/2 direct acting Midget Solenoid Valve, 154\*, will be replaced by a new valve on the 1<sup>st</sup> August 2000, Part Number, 254\*

## **Voltage Suffix Letters**

Since the initial introduction of the '150' series solenoids, suffix letters have been used at the end of the Part Number to denote the required voltage range. The voltage ranges on the new '250' series can in some cases replace two or more of the previously used ranges, see comparison chart shown below.

'250' Series Suffix letters	Voltage			Replaces '150' Suffix letters
Replace '*' with letters	50Hz.ac	60Hz.ac	DC	
'S'	110	110		'S', 'SC', 'TP'
'T'	12	12		'T', 'TE'
'TA'	24	24		'TA', 'TM'
'TC'			48	'TC'
'TF'			24	'TF'
'TL'	230	230	90	'TL', 'SA', 'TK', 'TS', 'TT'

### **Replacement Solenoids**

Discard old Request new Bulletin Catalogue Factory	Check Stocks	1	2	3			
			1				
Issued from the Marketing Department, Parker D	Issued from the Marketing Department, Parker Pneumatic, Cannock – UK						

<sup>\*</sup> Add voltage suffix letters, see note.



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	150 Series S	Solenoids				
Catalogue:						
Date of Issue:	June 2000					
Bulletin No:	ILB 10065					

We will continue to supply replacement solenoid assemblies, '150C\*' and '150CM\*', until stocks are exhausted, however, it will be possible to convert valves fitted with these assemblies to the new type solenoid by use of a conversion kit.

The '250' series solenoid uses a slipover coil, therefore once converted, the coil only will be available as a replacement kit.

'250' Solenoid conversion kit	'250' Replacement Coil kit
250C*	250R*
250CM* with locking type manual override	250R*

<sup>\*</sup> Add voltage suffix letters from chart above.

Action Requi		Distribution					
Discard old	Request new	Add bulletin	Contact	Check	1	2	3
Bulletin	Catalogue	to Catalogue	Factory	Stocks			
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK							



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products		
Title:	3035 Series	3035 Series CNOMO Solenoids					
Catalogue:							
Date of Issue:	June 2000						
Bulletin No:	IBL10066						

## '3035' Series 'CNOMO' Solenoids

Following the obsolescence of the '150' series solenoid coil, it has become necessary to replace the '3035' series CNOMO solenoid with a new '350' Series.

As the '350' series conform to the recognised 'CNOMO' standard they are directly interchangeable with the '3035' series. The following valves will now be fitted with the new '350 series coils :

'Apollo' Series ISO Valves with CNOMO coils

Size 1	Size 2	Size 3
19414*	29414*	39414*
19414M*	29414M*	39414M*
19414N*	29414N*	39414N*
19424*	29424*	39424*
19424M*	29424M*	39424M*
19424N*	29424N*	39424N*
19424X*	29424X*	39424X*
19424MX*	29424MX*	39424MX*
19424NX*	29424NX*	39424NX*
19424Y*	29424Y*	39424Y*
19424MY*	29424MY*	39424MY*
19424NY*	29424NY*	39424NY*
19424Z*	29424Z*	39424Z
19424MZ*	29424MZ*	39424MZ*
19424NZ*	29424NZ*	39424NZ*
19434*	29434*	39434*
19434M*	29434M*	39434M*
19434N*	29434N*	39434N*
19434J*	29434J*	39434J*
19434MJ*	29434MJ*	39434MJ*
19434NJ*	29434NJ*	39434NJ*
19434X*	29434X*	39434X*

Action Requi	Distribution							
Discard old	Request new	Add bulletin	Contact	Check	1	2	3	
Bulletin	Catalogue to Catalogue Facto			Stocks				
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK								



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products	
Title:	3035 Series	CNOMO Sol	enoids			
Catalogue:						
Date of Issue:	June 2000					
Bulletin No:	IBL10066					

19434MX*	29434MX*	39434MX*
19434NX*	29434NX*	39434NX*
19434Y*	29434Y*	39434Y*
19434MY*	29434MY*	39434MY*
19434NY*	29434NY*	39434NY*
19434Z*	29434Z*	39434Z*
19434MZ*	29434MZ*	39434MZ*
19434NZ*	29434NZ*	39434NZ*

<sup>\*</sup> Add voltage suffix letters, see note

M = Solenoid with locking manual override

N = Solenoid with non locking manual override

### **Voltage Suffix Letters**

Since the initial introduction of the '3035' series solenoids, suffix letters have been used at the end of the Part Number to denote the required voltage range. The voltage ranges on the new '350' series can in some cases replace two or more of the previously used ranges, see comparison chart shown below.

'350' Series Suffix letters	Voltage			Replaces '3035' Suffix letters
Replace '*' with letters	50Hz.ac	60Hz.ac	DC	
'S'	110	110	50	'S', 'SC', 'TP'
'T'	12	12	6	'T', 'TE'
'TA'	24	24	11	'TA', 'TM'
'TF'	48	48	24	'TF'
'TL'	230	230	120	'TL', 'SA', 'TK', 'TT'

### **Replacement Solenoids**

Action Required				Distribution			
Discard old	Request new	Add bulletin	Contact	Check	1	2	3
Bulletin	Catalogue	to Catalogue	Factory	Stocks			
Issued from the Marketing Department, Parker Pneumatic, Cannock – UK							



Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products		
Title:	3035 Series	3035 Series CNOMO Solenoids					
Catalogue:							
Date of Issue:	June 2000						
Bulletin No:	IBL10066						

The complete 'CNOMO' solenoid assemblies can be supplied as replacements, order using the Part Numbers shown below :

Voltage	Without manual override	Non-locking manual override	Locking manual override	Valve suffix
12 v 50/60Hz / 6vdc	P2G-PV34B0	P2G-PV34B1	P2G-PV34B2	Т
24 v 50/60Hz / 12vdc	P2G-PV34C0	P2G-PV34C1	P2G-PV34C2	TA
48 v 50/60Hz / 24vdc	P2G-PV32C0	P2G-PV32C1	P2G-PV32C2	TF
110 v 50/60Hz / 50vdc	P2G-PV34E0	P2G-PV34E1	P2G-PV34E2	S
230 v 50/60Hz / 120vdc	P2G-PV34J0	P2G-PV34J1	P2G-PV34J2	TL

Action Requ	Distribution							
Discard old	Request new	Add bulletin	Contact	Check	1	2	3	
Bulletin	Catalogue	Factory	Stocks					
Issued	Bulletin Catalogue to Catalogue Factory Stocks  Issued from the Marketing Department, Parker Pneumatic, Cannock – UK							

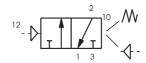
# Directional control valves $G^{1/4}$ , 3/2 - 5/2

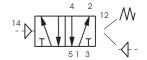
## Air pilot operated valves





## Symbol





#### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body)
	Nitrile (actuators)
Spring housing	Nylon (acetal resin)

#### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

#### **Pneumatic information**

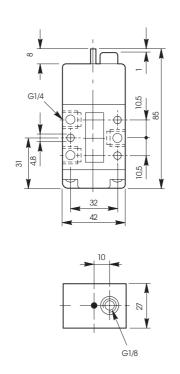
Pressure range		0 to 10 bar
Minimum	Spring return	2,7 bar
pilot pressure	Air pilot return	1,3 bar
Nominal Ø		7mm
Nominal flow at 7 bar		26 dm³/s

## **Ordering information**

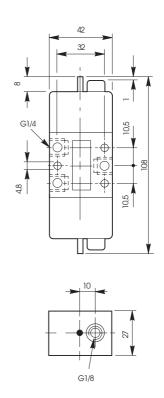
Part nos.	Туре	Actuator	Return	Symbol	
B53003PS	3/2	Air pilot	Spring		
B53004PS	5/2	Air pilot	Spring		
B53003PP	3/2	Air pilot	Air pilot	D	
B53004PP	5/2	Air pilot	Air pilot		
B53003J	3/2	Air pilot	Differential pilot		
B53004J	5/2	Air pilot	Differential pilot		

## 3/2 valve dimensions (mm)

# Air pilot operated spring return

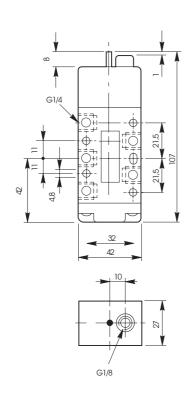


### Double air pilot operated

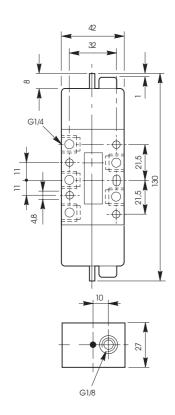


## 5/2 valve dimensions (mm)

# Air pilot operated spring return



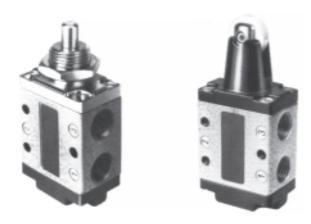
## Double air pilot operated



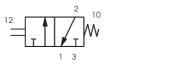


# Directional control valves $G^{1/4}$ , 3/2 - 5/2

## **Mechanically operated valves**



## **Symbol**





#### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body)
	Nitrile (actuators)
Spring housing	Nylon (acetal resin)

#### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

#### **Pneumatic information**

Pressure range	0 to 10 bar
Nominal Ø	7mm
Nominal flow at 7 bar	26 dm³/s

### **Ordering information**

Part nos.	Туре	Actuator	Return	Symbol	Optional air pilot return
B53003CS	3/2	Plunger	Spring	□ Ţ W	
B53004CS	5/2	Plunger	Spring		
B53003RS	3/2	Roller	Spring	⊙= <mark>⊤  </mark>	
B53004RS	5/2	Roller	Spring	⊙=\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

Note: All valves featured on this page are available with air pilot return mechanisms. To order delete 'S' for spring and

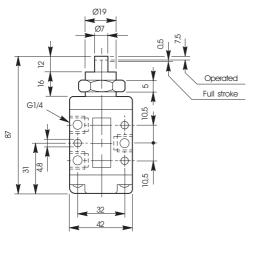
add '**P**' e.g. **B53003CP.** 

For dimensions of air pilot housing see page



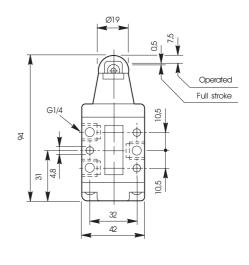
## 3/2 valve dimensions (mm)

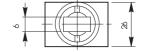
# Plunger operated spring return





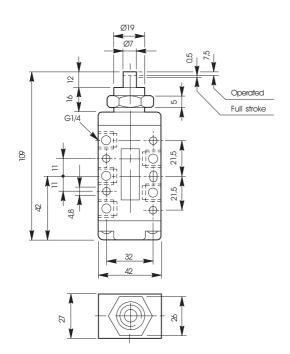
#### Roller operated



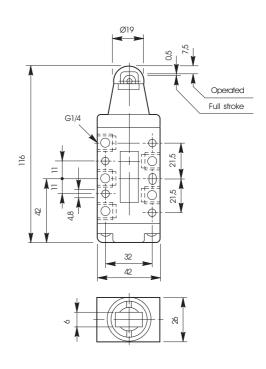


## 5/2 valve dimensions (mm)

# Plunger operated spring return



#### Roller operated





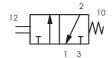
# Directional control valves $G^{1/4}$ , 3/2 - 5/2

### Manually operated valves





## **Symbol**





#### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body)
	Nitrile (actuators)
Spring housing	Nylon (acetal resin)

#### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

#### **Pneumatic information**

Pressure range	0 to 10 bar
Nominal Ø	7mm
Nominal flow at 7 bar	26 dm³/s

### **Ordering information**

Part nos.	Туре	Actuator	Return	Symbol	Optional air pilot return
B53003HXS	3/2	Button	Spring	(III)	
B53004HXS	5/2	Button	Spring	CHI W	
B53003HX	3/2	Button	Spring		
B53004HX	5/2	Button	Spring		
B53003LS	3/2	Lever	Spring	A THE	
B53004LS	5/2	Lever	Spring	₽ŢŢŢw	
B53003LT	3/2	Lock down lever		£ 1 / 1	
B53004LT	5/2	Lock down lever			
M53004L-10A	Panel m	ounting plate			

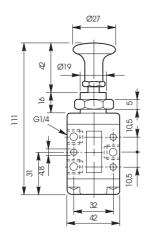
**Note:** All valves featured on this page are available with an air pilot return mechanism.

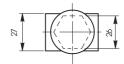
To order delete  $^{\prime}\!S^{\prime}$  for spring and add  $^{\prime}\!P^{\prime}.\,$  e.g. B53003CP For dimensions of air pilot housing see page



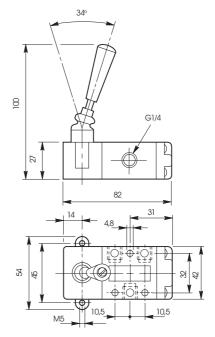
## 3/2 valve dimensions (mm)

# Button operated spring return





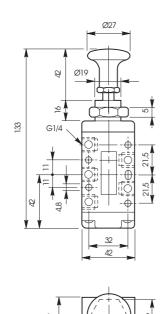
# Lever operated spring return



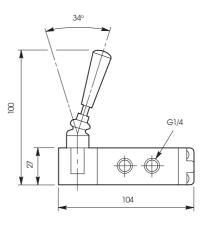


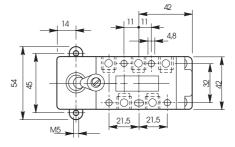
## 5/2 valve dimensions (mm)

# Button operated spring return



# Lever operated spring return





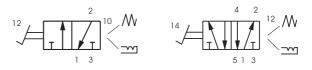


# Directional control valves $G^{1/4}$ , 3/2 - 5/2

### Manually operated valves



## **Symbol**



#### **Materials**

Body	Zinc diecast	
Actuator	Zinc diecast	
Spool	Stainless steel	
Bushes	Brass	
Seals Viton (valve body)		
	Nitrile (actuators)	
Spring housing	Nylon (acetal resin)	

#### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

#### **Pneumatic information**

Pressure range	0 to 10 bar
Nominal Ø	7mm
Nominal flow at 7 bar	26 dm³/s

### **Ordering information**

Part nos.	Туре	Actuator	Return	Symbol	Optional air pilot return
B53003FS	3/2	Foot pedal	Spring	≠ M	
B53004FS	5/2	Foot pedal	Spring	≠ T W	
B53003G	3/2	Foot pedal	Foot pedal		
B53004G	5/2	Foot pedal	Foot pedal		

Note: For details of foot guard kits see page

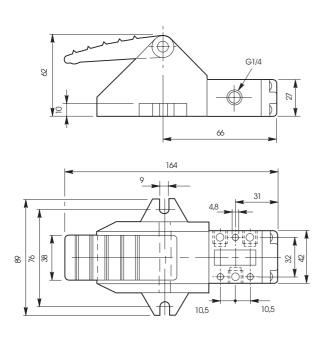
Spring returm valves are available with an air pilot return mechanism. To order delete 'S' for spring and add 'P'.

e.g. **B53003FP** 

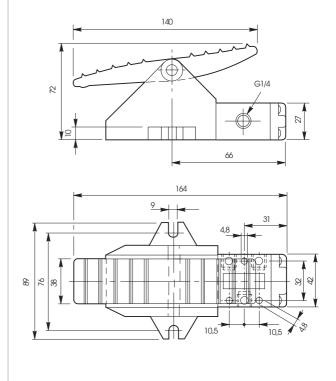


## 3/2 valve dimensions (mm)

# Foot pedal operated spring return

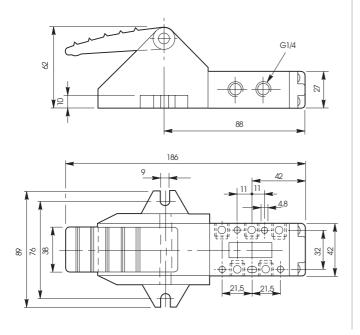


#### Foot pedal operated

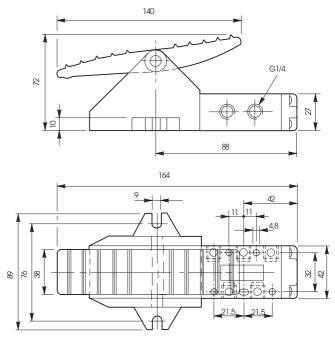


## 5/2 valve dimensions (mm)

# Foot pedal operated spring return



#### Foot pedal operated



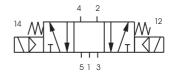


# Directional control valves $G^{1}/4$ , - 5/3

# Double solenoid pilot operated 5 watt solenoid Self centring valves



## **Symbol**



#### **Materials**

Zinc diecast
Zinc diecast
Stainless steel
Brass
Viton (valve body) Nitrile (actuators)

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

#### **Pneumatic information**

Pressure rang	je	0 to 10 bar	
Minimum	Spring return	1,7 bar	
Nominal Ø		7mm	
Nominal flow	at 7 bar	26 dm³/s	

### **Electrical information**

Power consumption		Inrush	Hold	
	AC	14VA	9VA	
	DC	5 Watt		
Rating		100% ED		
Isolating class		F		
Protection class		IP 65 (P 54) DIN 40 050		
Connection		DIN 43 650 Form B		

### **Voltage selection**

Suffix	50 Hz	D.C.	
T	10-13	5-6.5	
TA	2-26	10-13	
T F	44-55	21-26	
TC	85-110	43-55	
S	94-121	54-69	
T S	153-242	94-121	
SA	204-264	102-132	

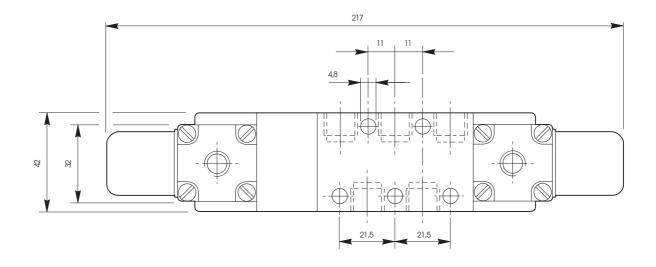
## **Ordering information**

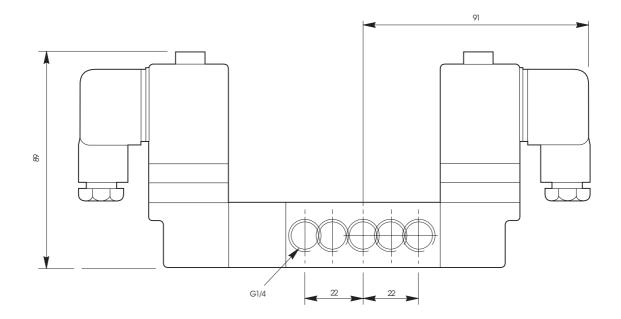
Part nos.	Туре	Actuator	Return	Mid	Symbol
LB53024X*	5/3	Solenoid pilot	Solenoid pilot	Neutral	
LB53024Y*	5/3	Solenoid pilot	Solenoid pilot	Negative	
LB53024Z*	5/3	Solenoid pilot	Solenoid pilot	Positive	

<sup>\*</sup>Specify voltage and add suffix letters For manual override add suffix M.



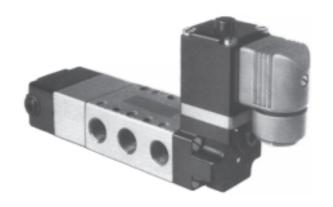
## 5/3 valve dimensions (mm)



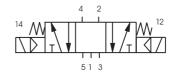


# Directional control valves $G^{1}/4$ , - 5/3

# Solenoid pilot operated 4 and 5 watt solenoids



## **Symbol**



#### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body) Nitrile (actuators)

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +55°C

### **Pneumatic information**

Pressure range	Э	0 to 10 bar	
Minimum	Spring return	1,7 bar	
Nominal Ø		7mm	
Nominal flow o	at 7 bar	26 dm³/s	

### **Electrical information**

Power consumption		Inrush	Hold
4 watt	AC	9VA	6VA
solenoid	DC	4 Watt	
Power consumption		Inrush	Hold
5 watt	AC	14VA	9VA
solenoid	DC	5 Watt	
Rating		100% ED	
Isolating class		F	
Protection class		IP 65 (P 5	4) DIN 40 050
Connection		DIN 43 65	50 Form B

## **Voltage selection**

Suffix	50 Hz	D.C.	
T	10-13	5-6.5	
TA	2-26	10-13	
T F	44-55	21-26	
TC	85-110	43-55	
S	94-121	54-69	
T S	153-242	94-121	
SA	204-264	102-132	
-			

For 4 watt coils see page

### **Ordering information**

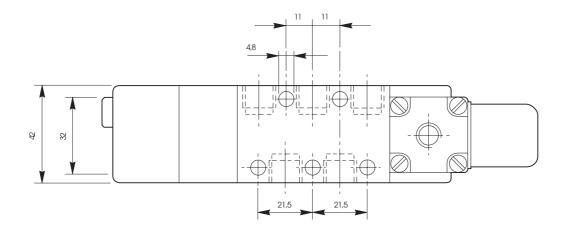
Part nos.	Туре	Coil	Actuator	Return	Mid	Symbol
LB53434X*	5/3	4 watt	Solenoid pilot	Air pilot	Neutral	
LB53434Y*	5/3	4 watt	Solenoid pilot	Air pilot	Negative	
LB53434Z*	5/3	4 watt	Solenoid pilot	Air pilot	Positive	
LB53034X*	5/3	5 watt	Solenoid pilot	Air pilot	Neutral	
LB53034Y*	5/3	5 watt	Solenoid pilot	Air pilot	Negative	
LB53034Z*	5/3	5 watt	Solenoid pilot	Air pilot	Positive	

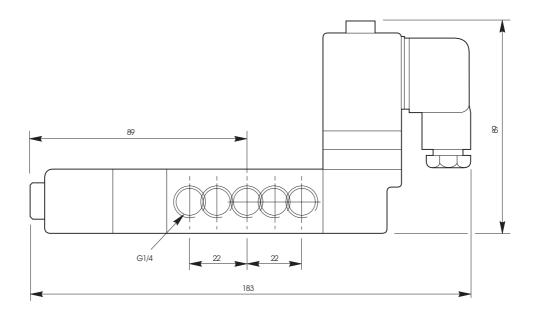
\*Specify voltage and add suffix letters

For manual override add suffix M.



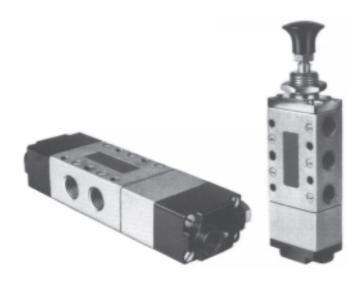
## 5/3 valve dimensions (mm)



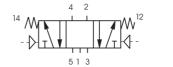


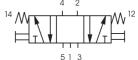
# Directional control valves $G^{1}/_{4}$ , - 5/3

# Button and air pilot operated Self centring valves



## **Symbol**





#### **Materials**

Zinc diecast
Zinc diecast
Stainless steel
Brass
Viton (valve body)
Nitrile (actuators)
Nylon (acetal resin)

#### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

#### **Pneumatic information**

Pressure range		0 to 10 bar	
Minimum	Spring return	2,7 bar	
Nominal Ø		7mm	
Nominal flow at	7 bar	26 dm³/s	

### **Button colours**

X = Black (standard)
Y = Red
Z = Green

## **Ordering information**

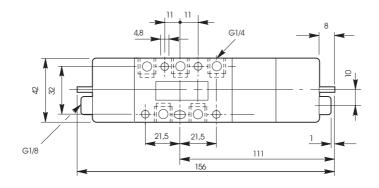
Part nos.	Туре	Actuator	Return	Mid	Symbol	Optional pilot return
B53004PX	5/3	Air pilot	Spring	Neutral		
B53004PY	5/3	Air pilot	Spring	Negative		-
B53004PZ	5/3	Air pilot	Spring	Positive	- <del></del>	
B53004HXX	5/3	Button	Spring	Neutral	M T T T W	
B53004HXY	5/3	Button	Spring	Negative		_
B53004HXZ	5/3	Button	Spring	Positive		-

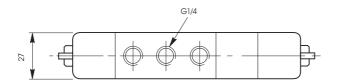
For dimension of air housing see page



## 5/3 valve dimensions (mm)

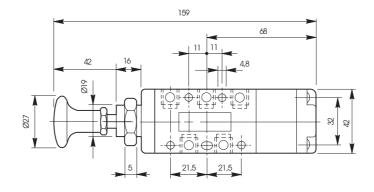
#### Air pilot operated

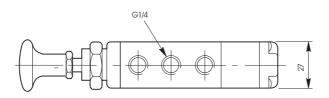




## 5/3 valve dimensions (mm)

### **Button operated**



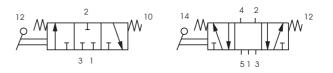


# Directional control valves $G^{1/4}$ , 3/3 - 5/3

# Lever operated Self centring valves



## **Symbol**



#### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body)
	Nitrile (actuators)
Spring housing	Nylon (acetal resin)

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-20°C to +80°C

#### **Pneumatic information**

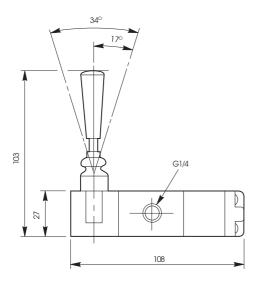
Pressure range	0 to 10 bar
Nominal Ø	7mm
Nominal flow at 7 bar	26 dm³/s

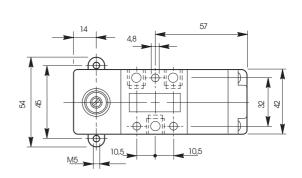
### **Ordering information**

_						
Part nos.	Туре	Actuator	Return	Mid	Symbol	Optional air pilot return
B53003LX	3/3	Lever	Spring	Neutral	2 M T T T T W	
B53004LX	5/3	Lever	Spring	Neutral	2 M T T T W	
B53003LY	5/3	Lever	Spring	Negative	≥ M T T T T W	
B53004LZ	5/3	Lever	Spring	Positive		
M53004L-10A	Panel m	nounting plate				

## 3/3 valve dimensions (mm)

#### Lever operated





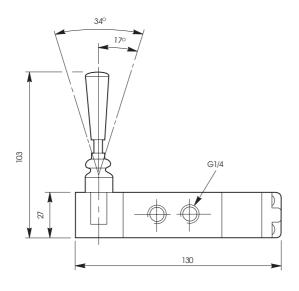
Mounting plate max. 6mm

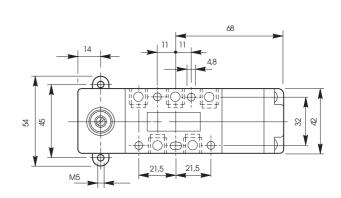
Mounting panel max. 3mm

**Panel mounting** 

## 5/3 valve dimensions (mm)

### Lever operated





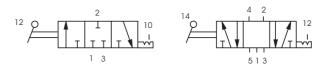


# Directional control valves $G^{1/4}$ , 3/3 - 5/3

# Lever operated 3 position



## **Symbol**



#### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body)
	Nitrile (actuators)
Spring housing	Nylon (acetal resin)

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G¹/4
Mounting	Any plane
Temperature range	-20°C to +80°C

#### **Pneumatic information**

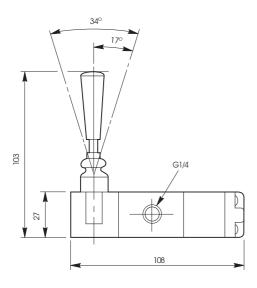
Pressure range	0 to 10 bar
Nominal Ø	7mm
Nominal flow at 7 bar	26 dm³/s

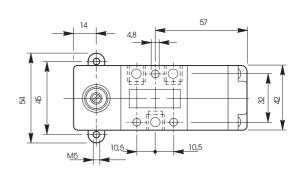
### **Ordering information**

•						
Part nos.	Туре	Actuator	Return	Mid	Symbol	Optional air pilot return
B53003L	3/3	Lever	Lever	Neutral		
B53004L	5/3	Lever	Lever	Neutral		
B53003LW	5/3	Lever	Lever	Negative		
B53004LN	5/3	Lever	Lever	Positive		
M53004L-10A	Panel m	nounting plate				

## 3/3 valve dimensions (mm)

#### Lever operated





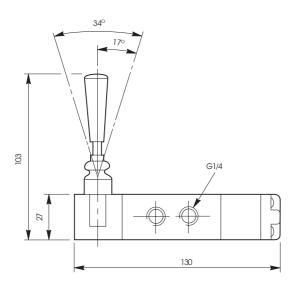
Mounting plate max. 6mm

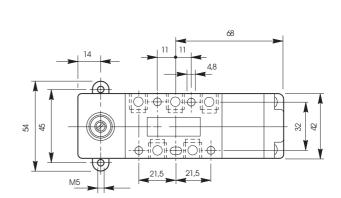
Mounting panel max. 3mm

**Panel mounting** 

## 5/3 valve dimensions (mm)

## Lever operated



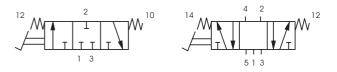


# Directional control valves $G^{1/4}$ , 3/3 - 5/3

## Manually operated valves



## **Symbol**



#### **Materials**

Body	Zinc diecast
Actuator	Zinc diecast
Spool	Stainless steel
Bushes	Brass
Seals	Viton (valve body)
	Nitrile (actuators)
Spring housing	Nylon (acetal resin)

### **Technical information**

Туре	Spool valve
Style	Body ported
Port size	G <sup>1</sup> / <sub>4</sub>
Mounting	Any plane
Temperature range	-10°C to +80°C

#### **Pneumatic information**

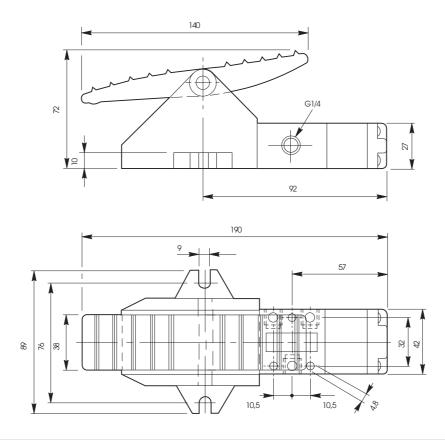
Pressure range	0 to 10 bar
Nominal Ø	7mm
Nominal flow at 7 bar	26 dm³/s

## **Ordering information**

Part nos.	Туре	Actuator	Return	Mid	Symbol	Optional air pilot return
B53003GX	3/3	Foot	Foot	Neutral	MITTIWW W	
B53004GX	5/3	Foot	Foot	Neutral	MITTIVI W	
B53004GY	5/3	Foot	Foot	Negative	M T T T W	
B53004GZ	5/3	Foot	Foot	Positive		

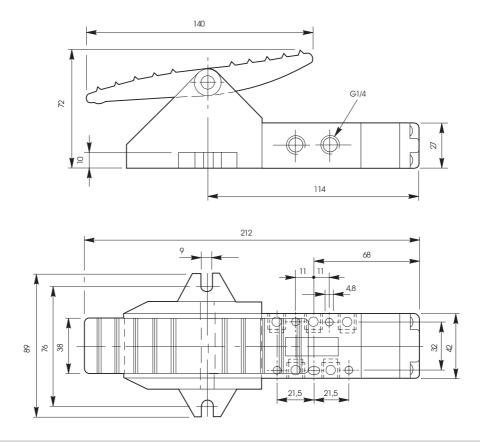
## 3/3 valve dimensions (mm)

Foot pedal operated spring return



### 5/3 valve dimensions (mm)

Foot pedal operated spring return



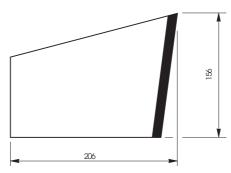
## Directional control valves G1/4

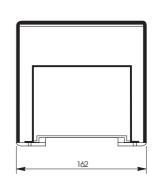
### Foot guard kit

To suit G<sup>1</sup>/<sub>4</sub> foot operated spool valves:

#### B53003FS, B53004FS







The guard completely encloses the valve and is designed to prevent both accidental operation and protect the operators foot from small metal fragments, dirt and grease.

Manufactured in mild steel, the front edge is protected by a rubber strip.

All valve connections are made through the back of the guard, producing a clean design of modern appearance.

The guard kit is supplied complete with valve mounting bolts, nuts and washers.

Part no. **3117** 

#### **External air supplies**

All solenoid-pilot operated valves have internal pilot air supply from a drilling within the valve, but are provided with an external port normally sealed by a blanking plug.

Internal pilot supply provides the same pressure for both main valve and pilot supply - with the use of external pilot supply variation of pressure on the solenoid operator is possible. When using solenoid valves with any medium other than air, then an external air supply must be made to the pilot to facilitate valve changeover.

If it is required to use external pilot supply, then the blanking plug should be removed from the port and the smaller plug contained underneath inserted into the internal counter bore drilling to seal off the internal air supply.

For applications using any medium other than air (i.e. vacuum or low pressure oil) we recommend you consult Technical Sales prior to operation.

#### Repair kits

Mechanically operated valves Manually operated valves

Air pilot operated valves
Differential pilot operated valves

Solenoid pilot operated valves

Part no.	53007
Part no.	53007JR

Part no. **53007S** 

#### Lubricating oils

To ensure long life and trouble free service from valves, it is recommended the equipment should be adequately lubricated by means of lubricators which disperse oil into the system. Only paraffinic based oils can be used, and the following recommendations are given as a general guide to types of oil that are suitable for use with Parker Schrader Bellows airline equipment.

The list opposite does not preclude the use of oils manufactured by other companies but oils must be paraffinic based.

As a general guide, lubricator drip rates should be 1 drip/minute for every 5 litre/second (10 cubic feet per minute) passed through the equipment.

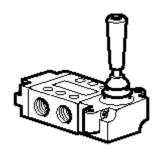
Oil company	Grade	Viscosity
Century oils	P.W.L.A.	32
Alexander Duckham	Zircon 4	32
Gulf oil (GB) Limited	Harmony 43 AW	32
Shell (UK) oil	Tellus 37	37
Burmah Castrol	Hyspin AWS 32	32
Edgar Vaughan	Y Hydrodrive HP 100	32
Esso Petroleum	Nuto H32	32
B.P.	HLP 32	32
Mobile Oil Company	DTE Oil - Light	32
Motul	VPI-A	32
Silkolene	Derwent 32	32





# **Service and Replacement Parts**





## **B43 Series Manually Operated Valves**

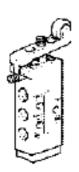
Part Number	Actuator	Replacement Actuator	Repair Kit
B43003BXS	Button	43004BX-100	
B43004BXS	Button	4300467-100	
B43003HXS	Button, Push/Pull	43003H-100	Body Seals,
B43004HXS	Button, Push/Pull	43004H-100	43007A
B43003LS	Lockdown Lever	43004L-200	
B43004LS	Lockdown Lever	43004L-200	

## **B53 Series Manually Operated Valves**

Part Number	Actuator	Replacement Actuator	Repair Kit
B53003HXS	Button		
B53004HXS	Button		
B53003HX	Button, Push/Pull		
B53004HX	Button, Push/Pull	53004HX-100	
B53004HXX	Button, Self-centring		Body seals, 53007
B53004HXY	Button, Self-centring		00001
B53004HXZ	Button, Self-centring		
B53003FS	Foot	53004F-100	
B53004FS	Foot	33004F-100	
B53003LS	Lever	53004L-198	
B53004LS	Lever	55004L-196	
B53003LT	Lever, 2 position	53004L-196	Body seals,
B53004LT	Lever, 2 position	55004L-190	53007 - Lever kit, 53004L-300R
B53004L	Lever, 3 position	53004L-100	
B53004LW	Lever, 3 position	33004L-100	
B53004LX	Lever, Self-centring	53004L-198	
B53004LY	Lever, Self-centring	00004L-190	



# **Service and Replacement Parts**





## **B43 Series Mechanically operated valves**

Part Number	Actuator	Replacement Actuator	Repair Kit
B43003CS	Dlungor	43004C-100	
B43004CS	Plunger	43004C-100	Body seals,
B43003RS	Dollar Lavor	42004D 200	43007A
B43004RS	Roller Lever	43004R-200	

## **B53 Series Mechanically operated valves**

Part Number	Actuator	Replacement Actuator	Repair Kit
B53003CS	Dlungor	53004C-100	Body seals,
B53004CS	Plunger		
B53003RS	Dollar	E2004D 400	53007
B53004RS	Roller	53004R-100	