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# Midget & Intermediate Manual and Mechanical Valves


G1/8 - G1/4 body ported

Catalogue PDE2623TCUK August 2009




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**Important !**  
 Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.



**NB !**  
 All technical data in this catalogue is typical only. The air quality is decisive for the valve life: see ISO 8573.



**WARNING**

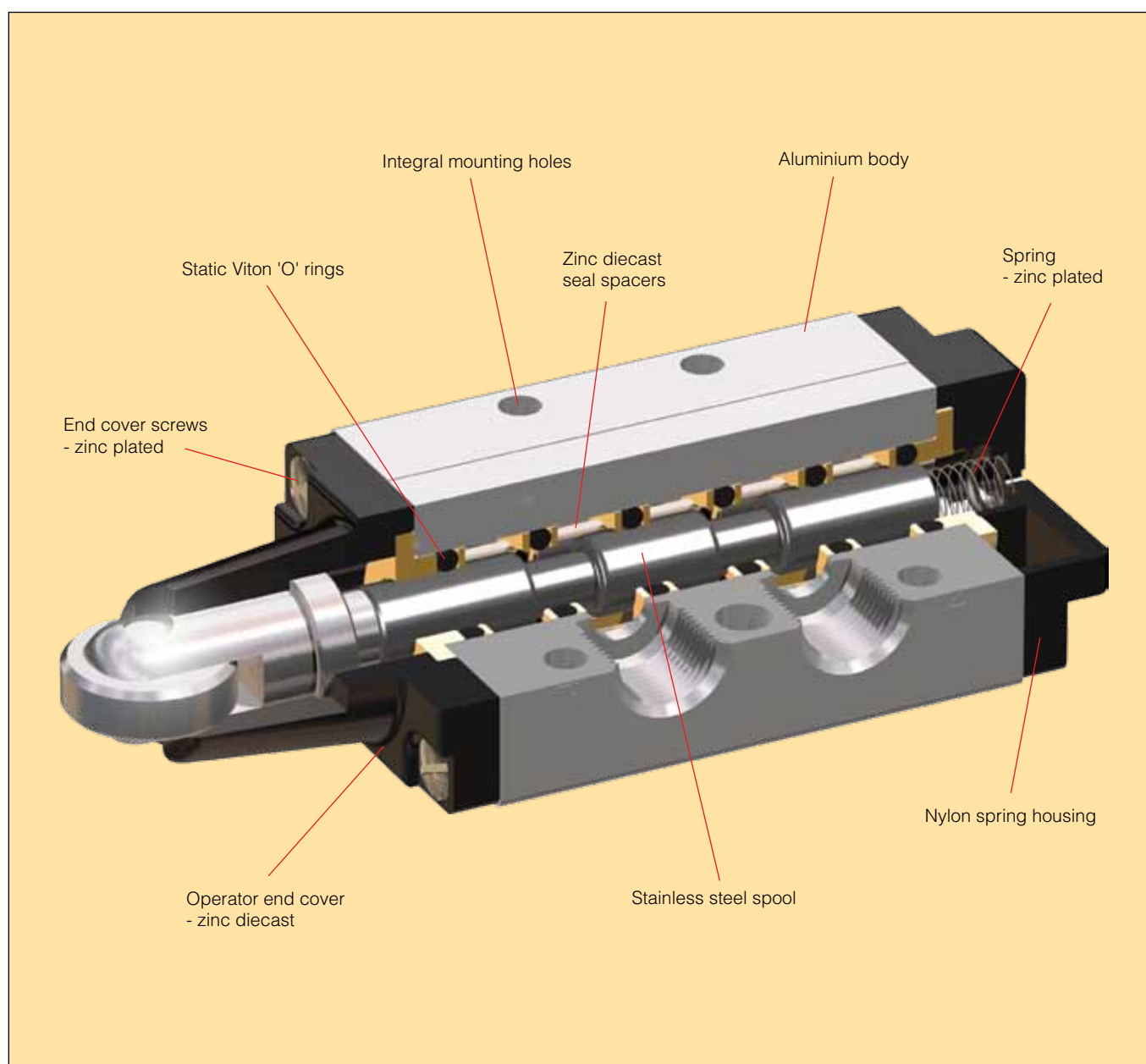
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## Marketing Applications

- Manufacturing
- Packaging
- General Automation



## Midget & Intermediate Manual and Mechanical Valves

### Midget / Intermediate G1/8 & G1/4 Control Valves

The compact design of these valves make them a popular choice for manual or mechanical operation and their modular construction permit different operators to be fitted to the actuator and return assemblies.

### Wide application range

The Midget and Intermediate valves are designed to have balanced forces across the spool so that 3/2 valves can be piped normally open or normally closed by changing the inlet supply from port 1 to port 3. Because forces across the spool are balanced 5/2 valves can also be piped in different ways to suit applications which require different pressures through the same valve. For example when a cylinder needs to advance with low force (pressure) to avoid bruising a component and retracts with normal pressure.

### Fast operating speeds

The G1/8 Midget valve has a short travel and lightweight spool so that high operating speeds are possible. These valves have been tested at over 3000 cycles per minute.

### Working medium, air quality

Working medium: Dry, filtered compressed air to ISO 8573-1 class 3.4.3.

### Recommended air quality for valves

For best possible service life and trouble free operation, ISO 8573-1 quality class 3.4.3 should be used. This means 5µm filter (standard filter) dew point +3°C for indoor operation (a lower dew point should be selected for outdoor operation) and oil concentration 1.0 mg oil/m<sup>3</sup>, which is what a standard compressor with a standard filter gives.

### High reliability

Valves easily comply with the requirements for the EU Machinery Directive standards EN292-2 and EN983. The bodies of the Midget and Intermediate valves are manufactured from aluminium with stainless steel spool, sealed by static viton 'O' rings. All operating parts exposed to the working fluid are of non-corrosive material and all ports threaded G1/8 or G1/4. The valves are designed to give long trouble free service life when used with or without lubrication.

### Modular construction

The modular construction of the valves allows any of the actuators to be spring return or air pilot return. 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.

### Maintenance

These valves can be serviced without disturbing the pipe-work simply by unscrewing the actuator and return assemblies and then removing the spool and 'O' ring assembly.

### ISO 8573-1 quality classes

Quality class	Pollution		Water max. press. dew point (°C)	Oil max. concentration (mg/m <sup>3</sup> )
	particle size (µm)	max. concentration (mg/m <sup>3</sup> )		
1	0,1	0,1	-70	0,01
2	1	1	-40	0,1
3	5	5	-20	1,0
4	15	8	+3	5,0
5	40	10	+7	25
6	-	-	+10	-

# Midget & Intermediate Manual and Mechanical Valves

## Material specification

Valve body	Aluminium
Spool	Stainless steel
Seal spacers	Zinc die cast
Seals	Viton
Spring housing	Nylon
Spring	Zinc plated
End covers	Zinc die cast
Actuators	Zinc die cast
End cover screws	Zinc plated

## Technical information

Type	Spool valves
Style	Body ported
Port size	G1/8 & G1/4
Mounting	Any plane
Pressure range	Vacuum to 10 bar
Temperature range	-10°C to +80°C
Flow acc. (to ISO 6358)	

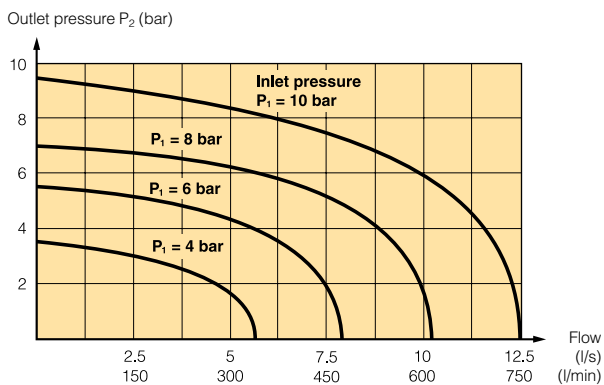
**Midget B43 series    Intermediate B53 series**

$c = 1.13 \text{ NI/s} \times \text{bar}$	$c = 3.69 \text{ NI/s} \times \text{bar}$
$b = 0.36$	$b = 0.33$
$Q_n = 5.5 \text{ l/s}$	$Q_n = 17.5 \text{ l/s}$
$Q_{max} = 9.0 \text{ l/s}$	$Q_{max} = 29 \text{ l/s}$
$C_v = 0.24$	$C_v = 1.02$

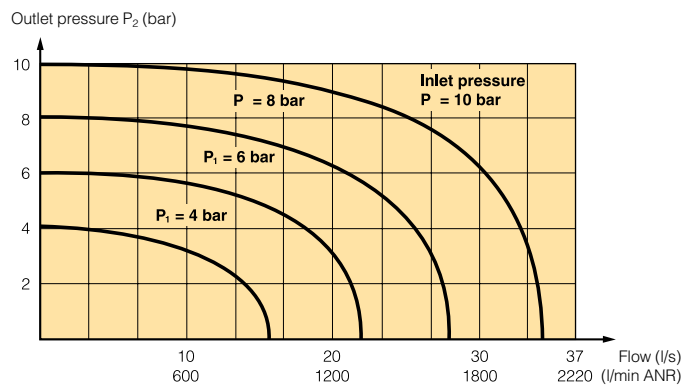
## Flow characteristics

Flow capacities in accordance with ISO 6358  
 The flow curves shown below are typical.

### Midget B43 series valves

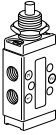


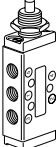


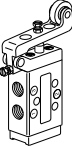


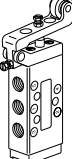


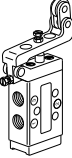


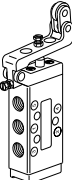




### Intermediate B53 series valves






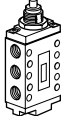





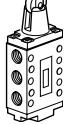




Midget mechanically operated valves, B43 series

	Symbol	Type	Actuator	Return	Operating force at 6 bar, N	Size	Weight Kg	Order code
		3/2	Plunger	Spring	36	G1/8	0,182	<b>B43003CS</b>
		3/2	Plunger	Air	14	G1/8	0,202	<b>B43003CP</b>
		5/2	Plunger	Spring	36	G1/8	0,222	<b>B43004CS</b>
		5/2	Plunger	Air	14	G1/8	0,242	<b>B43004CP</b>
		3/2	Roller Lever	Spring	20	G1/8	0,234	<b>B43003RS</b>
		3/2	Roller lever	Air	7	G1/8	0,254	<b>B43003RP</b>
		5/2	Roller Lever	Spring	20	G1/8	0,274	<b>B43004RS</b>
		5/2	Roller lever	Air	7	G1/8	0,294	<b>B43004RP</b>
		3/2	One way roller lever	Spring	20	G1/8	0,274	<b>B43003RTS</b>
		3/2	One way roller lever	Air	7	G1/8	0,294	<b>B43003RTP</b>
		5/2	One way roller lever	Spring	20	G1/8	0,314	<b>B43004RTS</b>
		5/2	One way roller lever	Air	7	G1/8	0,334	<b>B43004RTP</b>




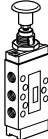





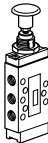




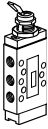



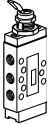

 Indicates stocked product.

Intermediate mechanically operated valves, B53 series

	Symbol	Type	Actuator	Return	Operating force at 6 bar, N	Size	Weight Kg	Order code
		3/2	Plunger	Spring	53	G1/4	0,348	<b>B53003CS</b>
		3/2	Plunger	Air	27	G1/4	0,388	<b>B53003CP</b>
		5/2	Plunger	Spring	53	G1/4	0,478	<b>B53004CS</b>
		5/2	Plunger	Air	27	G1/4	0,518	<b>B53004CP</b>
		3/2	Roller	Spring	53	G1/4	0,350	<b>B53003RS</b>
		3/2	Roller	Air	27	G1/4	0,390	<b>B53003RP</b>
		5/2	Roller	Spring	53	G1/4	0,480	<b>B53004RS</b>
		5/2	Roller	Air	27	G1/4	0,520	<b>B53004RP</b>

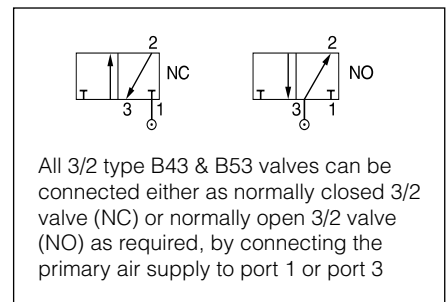
 Indicates stocked product.

Midget manually operated valves, B43 series

	Symbol	Type	Actuator	Return	Operating force at 6 bar, N	Size	Weight Kg	Order code
		3/2	Button, black	Spring	36	G1/8	0,200	<b>B43003BXS</b>
		3/2	Button, black	Button	13	G1/8	0,200	<b>B43003HXS</b>
		5/2	Button, black	Spring	36	G1/8	0,240	<b>B43004BXS</b>
		5/2	Button, black	Button	13	G1/8	0,240	<b>B43004HXS</b>
		3/2	Button, black	Air	13	G1/8	0,200	<b>B43003BXP</b>
		3/2	Button, black	Air or button	13	G1/8	0,200	<b>B43003HXP</b>
		5/2	Button, black	Air	13	G1/8	0,240	<b>B43004BXP</b>
		5/2	Button, black	Air or button	13	G1/8	0,280	<b>B43004XHP</b>
		3/2	Lock down lever	Spring	9	G1/8	0,202	<b>B43003LS</b>
		3/2	Lock down lever	Spring	9	G1/8	0,242	<b>B43004LS</b>
		3/2	Lock down lever	Air	3	G1/8	0,240	<b>B43003LP</b>
		3/2	Lock down lever	Air	3	G1/8	0,280	<b>B43004LP</b>

**Note:** The standard button colour is black (X)  
 For optional colour buttons change 8th character of order code  
 e.g. B43004HXS = Black button, B43004HXS = Green button,  
 B43004HYS = Red button.










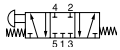
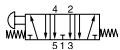
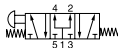
- X = Black
- Z = Green
- Y = Red



 Indicates stocked product.

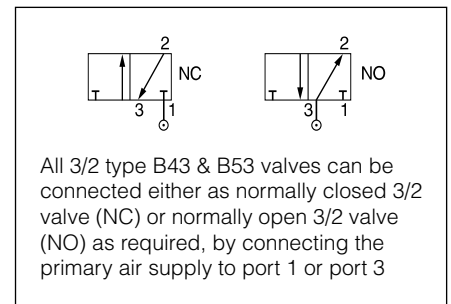


Intermediate manually operated valves, B53 series

	Symbol	Type	Actuator	Return	Operating force at 6 bar, N	Size	Weight Kg	Order code
		3/2	Button, black	Spring	53	G1/4	0,368	<b>B53003HXS</b>
		3/2	Button, black	Button	27	G1/4	0,368	<b>B53003HX</b>
		3/2	Button, black	Air	27	G1/4	0,380	<b>B53003HXP</b>
		5/2	Button, black	Spring	53	G1/4	0,498	<b>B53004HXS</b>
		5/2	Button, black	Button	27	G1/4	0,498	<b>B53004HX</b>
		5/2	Button, black	Air	27	G1/4	0,510	<b>B53004HXP</b>
		5/3	Button Closed centre position	Button Self centring	53	G1/4	0,623	<b>B53004HXX</b>
		5/3	Button Vented centre position	Button Self centring	53	G1/4	0,623	<b>B53004HXY</b>
		5/3	Button Pressurised centre position	Button Self centring	53	G1/4	0,623	<b>B53004HXZ</b>

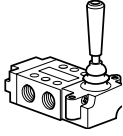



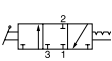
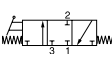
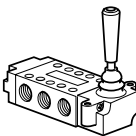



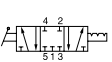
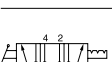
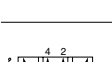
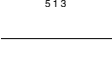
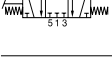
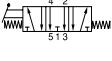
**Note:** The standard button colour is black (X)  
 For optional colour buttons change 8th character of order code  
 e.g. B43004HXS = Black button, B43004HZS = Green button,  
 B43004HYS = Red button.

- X = Black
- Z = Green
- Y = Red

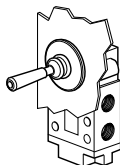


 Indicates stocked product.

Intermediate lever operated valves, B53 series

	Symbol	Type	Actuator	Return	Operating force at 6 bar, N	Size	Weight Kg	Order code
		3/2	Lever	Spring	14	G1/4	0,504	<b>B53003LS</b>
		3/2	Lever	Air	9	G1/4	0,520	<b>B53003LP</b>
		3/2	Lever	Lever	9	G1/4	0,500	<b>B53003LT</b>
		3/3	Lever Closed centre position	Lever	9	G1/4	0,504	<b>B53003L</b>
		3/3	Lever Closed centre position	Lever Self centring	14	G1/4	0,780	<b>B53003LX</b>
		5/2	Lever	Spring	14	G1/4	0,506	<b>B53004LS</b>
		5/2	Lever	Air	14	G1/4	0,526	<b>B53004LP</b>
		5/2	Lever	Lever	14	G1/4	0,632	<b>B53004LT</b>
		5/3	Lever Closed centre position	Lever held in three positions	9	G1/4	0,640	<b>B53004L</b>
		5/3	Lever Vented centre position	Lever held in three positions	9	G1/4	0,640	<b>B53004LW</b>
		5/3	Lever Pressurised centre position	Lever held in three positions	9	G1/4	0,640	<b>B53004LN</b>
		5/3	Lever Closed centre position	Lever Self centring	14	G1/4	0,780	<b>B53004LX</b>
		5/3	Lever Vented centre position	Lever Self centring	14	G1/4	0,780	<b>B53004LY</b>
		5/3	Lever Pressurised centre position	Lever Self centring	14	G1/4	0,780	<b>B53004LZ</b>

Mounting kit

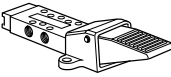





Panel mounting kit  
 Kit includes panel plate and M5 counter sunk head screws

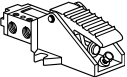

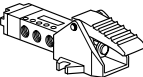

0,040 **M53004L-10A**

 Indicates stocked product.

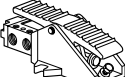

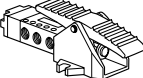

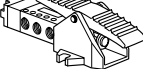

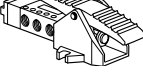



Midget foot operated valves, B43 series

Symbol	Type	Actuator	Return	Operating force at 6 bar, N	Size	Weight Kg	Order code
 	3/2	Foot pedal	Spring	16	G1/8	0,312	<b>B43003FS</b>
 	5/2	Foot pedal	Spring	16	G1/8	0,370	<b>B43004FS</b>

Intermediate foot operated valves, B53 series

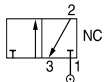
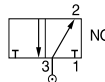
Symbol	Type	Actuator	Return	Operating force at 6 bar, N	Size	Weight Kg	Order code
<b>Single pedal operated</b>							
 	3/2	Foot pedal	Spring	95	G1/4	1,34	<b>B53003FS</b>
 	5/2	Foot pedal	Spring	95	G1/4	1,48	<b>B53004FS</b>

Rocker pedal operated

 	3/2	Foot pedal	Foot pedal	18	G1/4	1,38	<b>B53003G</b>
 	5/2	Foot pedal	Foot pedal	18	G1/4	1,58	<b>B53004G</b>
 	5/3	Foot pedal Closed centre position	Foot pedal Self centring	18	G1/4	1,68	<b>B53004GX</b>
 	5/3	Foot pedal Vented centre position	Foot pedal Self centring	18	G1/4	1,68	<b>B53004GY</b>
 	5/3	Foot pedal Pressurised centre position	Foot pedal Self centring	18	G1/4	1,68	<b>B53004GZ</b>

Accessories

	Foot guard kit					1,16	<b>3117</b>
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All 3/2 type B43 & B5/3 valves can be connected either as normally closed 3/2 valve (NC) or normally open 3/2 valve (NO) as required, by connecting the primary air supply to port 1 or port 3

 Indicates stocked product.

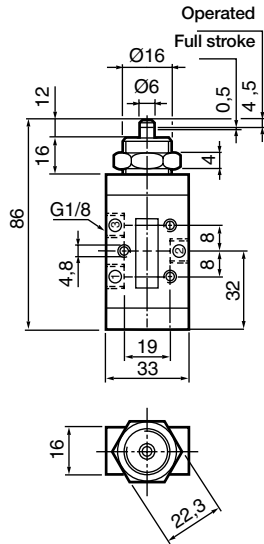
**Dimensions, G1/8 ported spool valves**

All dimensions in mm unless otherwise stated

**Mechanically operated valves**

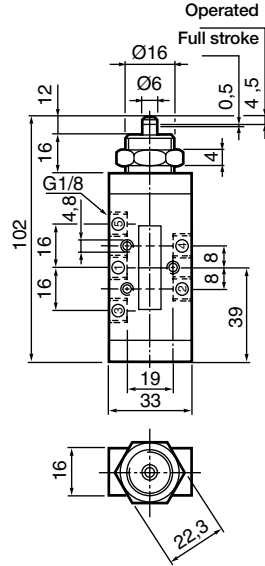
**3/2 valves**

Plunger operated spring return



**5/2 valves**

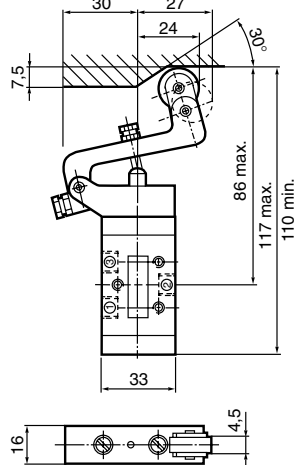
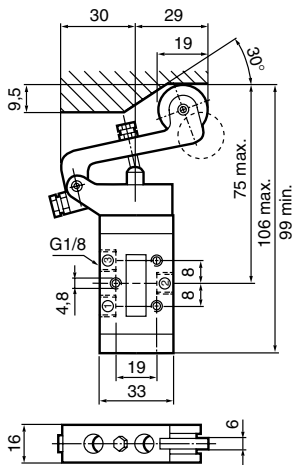
Plunger operated spring return



**3/2 valves**

Roller operated spring return

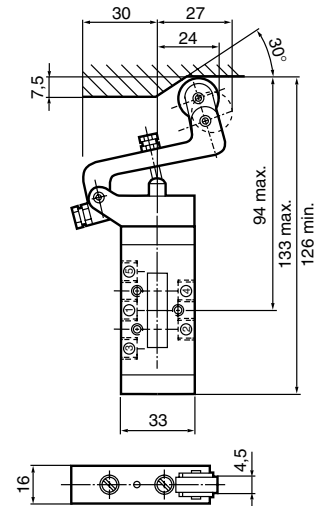
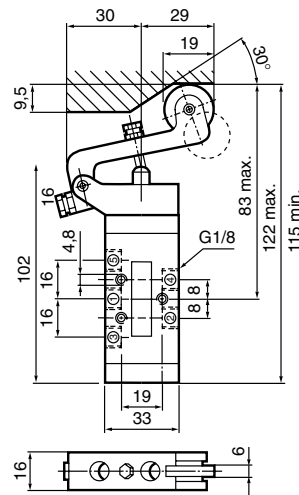
One way roller trip operate spring return



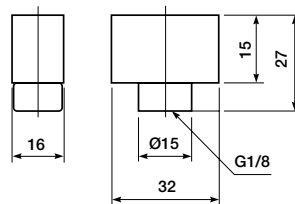
**5/2 valves**

Roller operated spring return

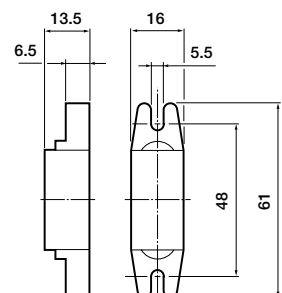
One way roller trip operate spring return



Air Pilot Return



Optional foot mounted - Spring return housing



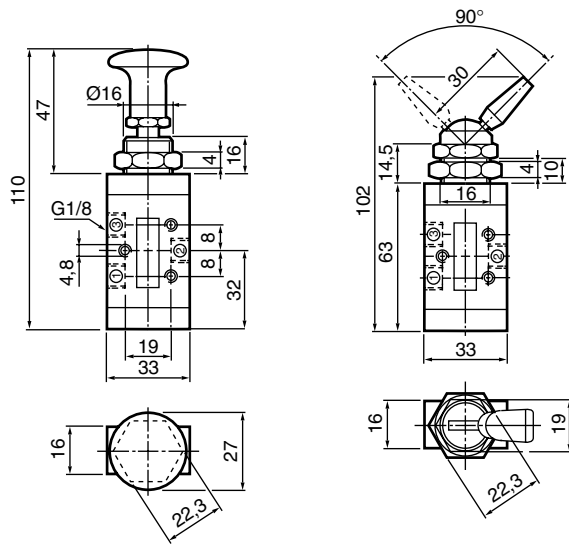
Dimensions, G1/8 ported spool valves

All dimensions in mm unless otherwise stated

Manually operated valves

3/2 valves

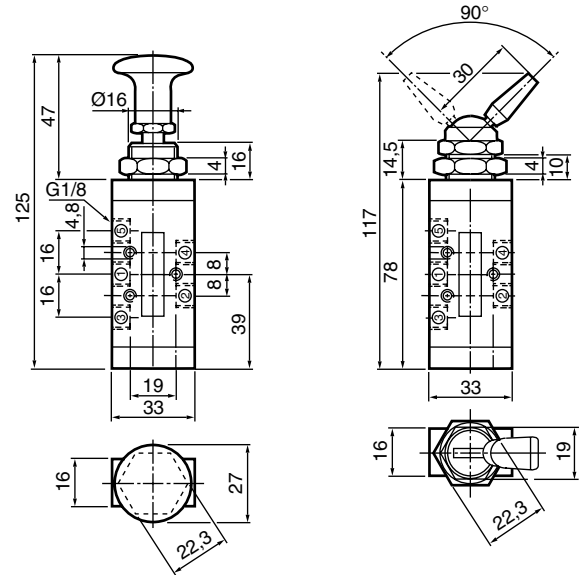
Button operated spring return or button returned



Lock down lever operated spring return

5/2 valves

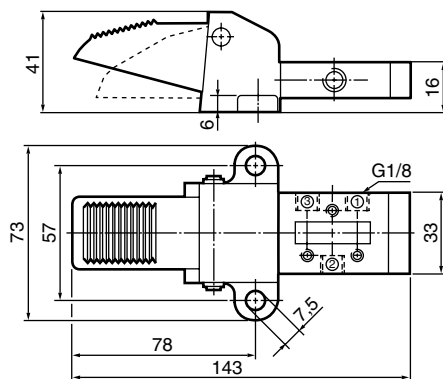
Button operated spring return or button returned



Lock down lever operated spring return

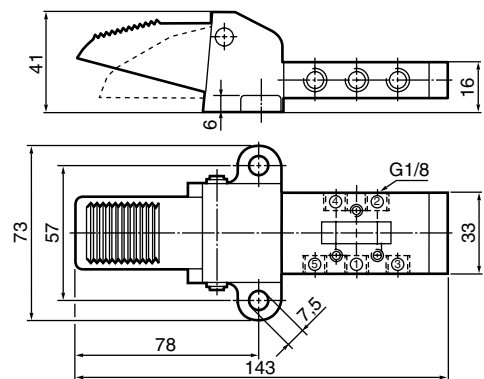
3/2 valves

Foot pedal operated spring return

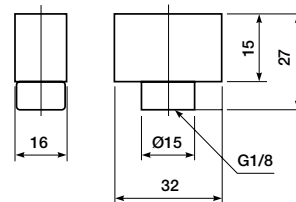


5/2 valves

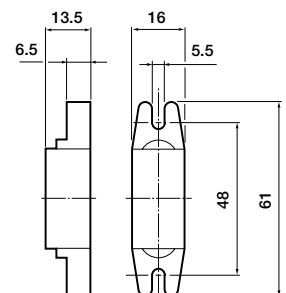
Foot pedal operated spring return



Air Pilot Return



Optional foot mounted - Spring return housing



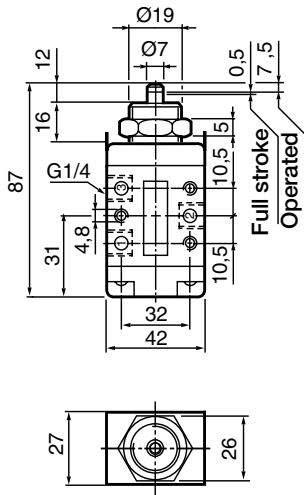
**Dimensions, G1/4 ported spool valves**

All dimensions in mm unless otherwise stated

**Mechanically operated valves**

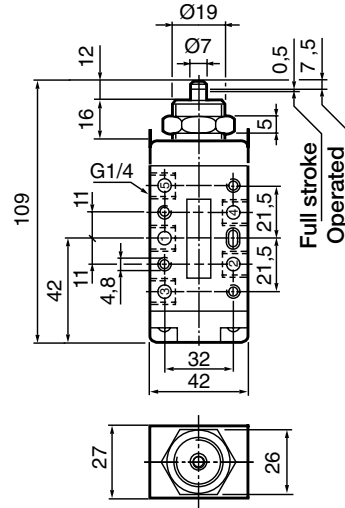
**3/2 valves**

Plunger operated spring return



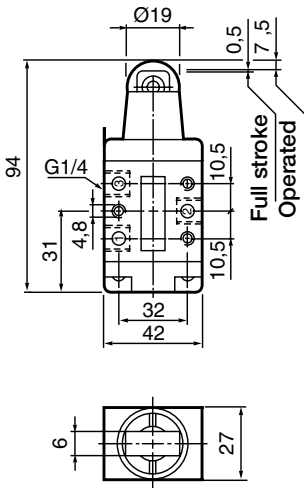
**5/2 valves**

Plunger operated spring return



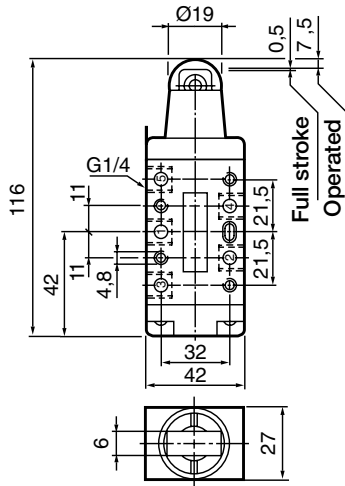
**3/2 valves**

Roller operated spring return

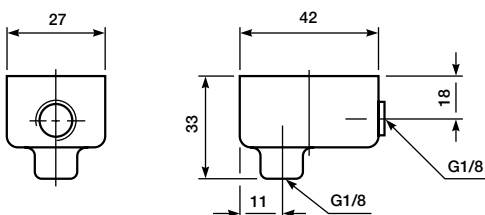


**5/2 valves**

Roller operated spring return



Air Pilot Return



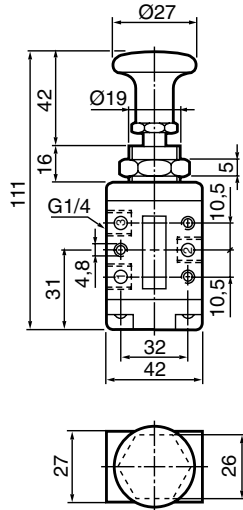
Dimensions, G1/4 ported spool valves

All dimensions in mm unless otherwise stated

Manually operated valves

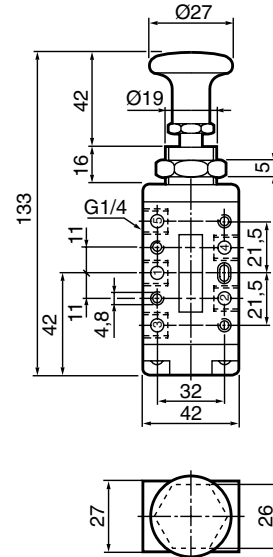
3/2 valves

Button operated spring return  
or button returned



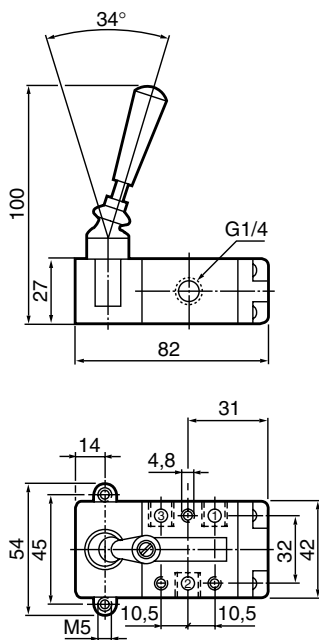
5/2 valves

Button operated spring return  
or button returned



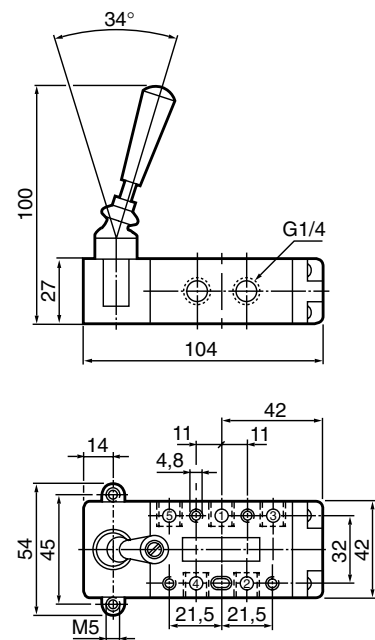
3/2 valves

Lever operated

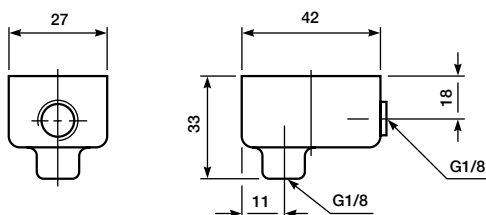


5/2 valves

Lever operated



Air Pilot Return



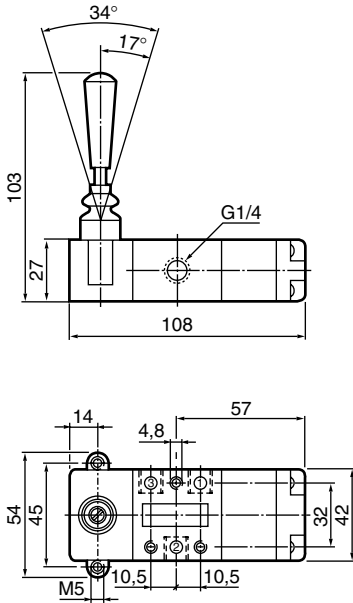
**Dimensions, G1/4 ported spool valves**

All dimensions in mm unless otherwise stated

**Manually operated valves**

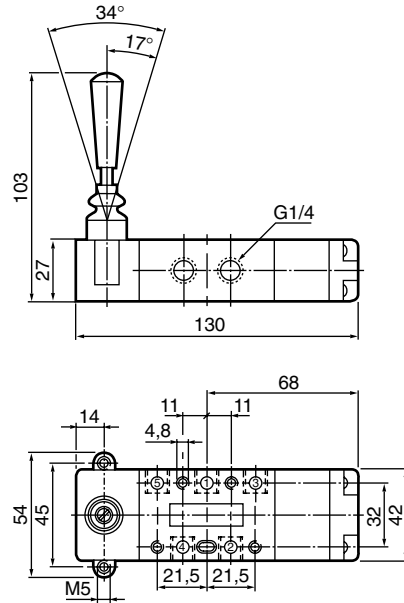
**3/3 valves (Self centring)**

Lever operated



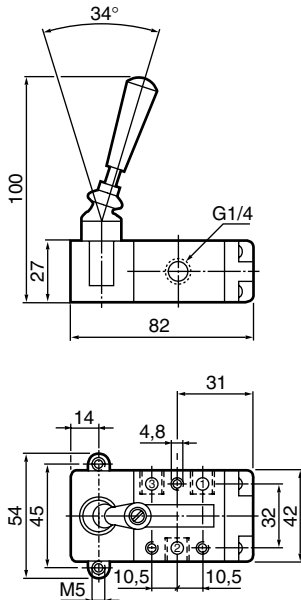
**5/3 valves (Self centring)**

Lever operated



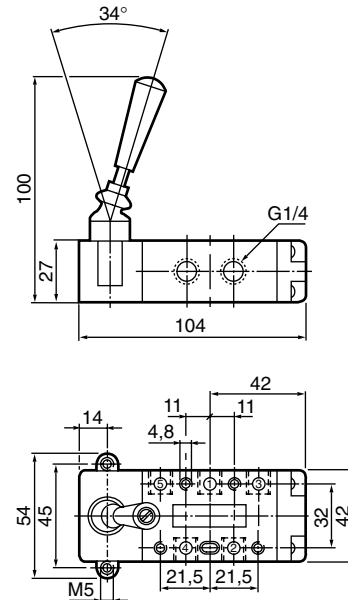
**3/3 valves (3 positions)**

Lever operated

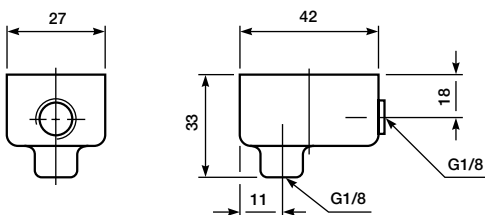


**5/3 valves (3 positions)**

Lever operated



Air Pilot Return





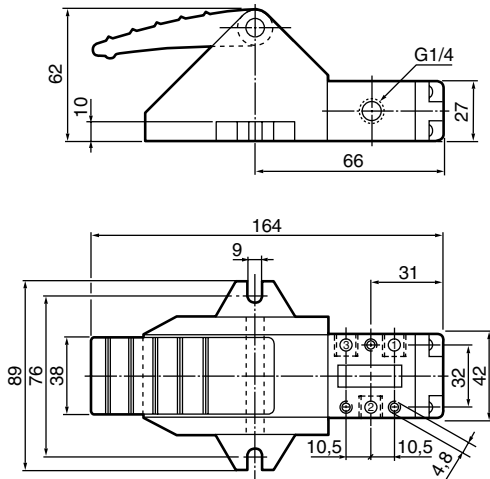
**Dimensions, G1/4 ported spool valves**

All dimensions in mm unless otherwise stated

**Manually operated valves**

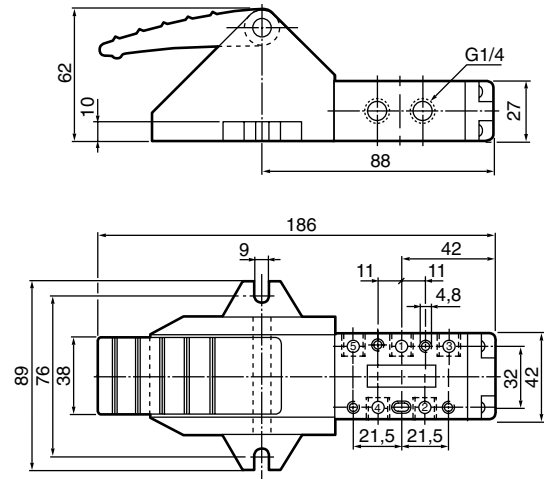
**3/2 valves**

Foot pedal operated spring return



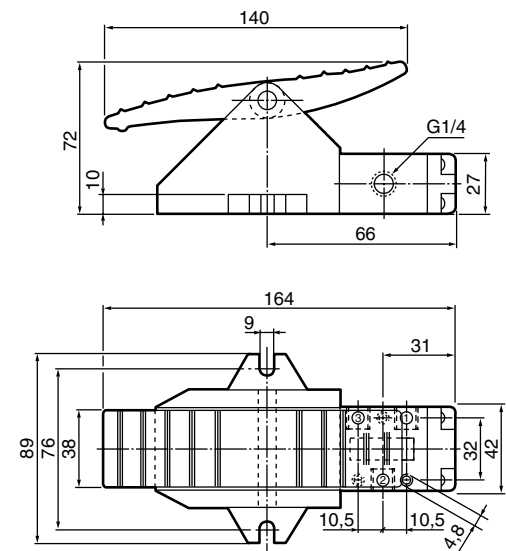
**5/2 valves**

Foot pedal operated spring return



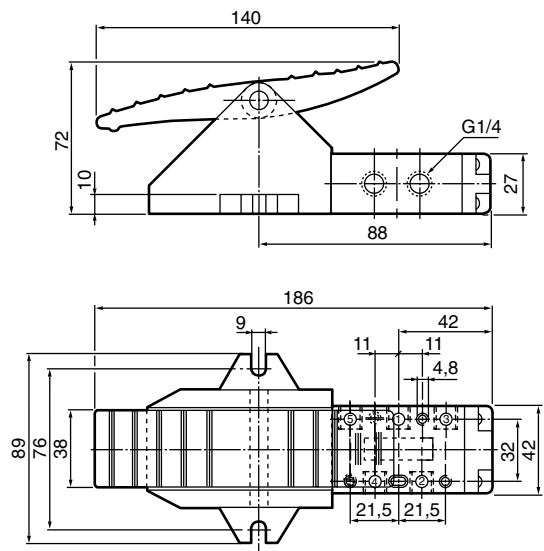
**3/2 valves**

Foot pedal operated



**5/2 valves**

Foot pedal operated



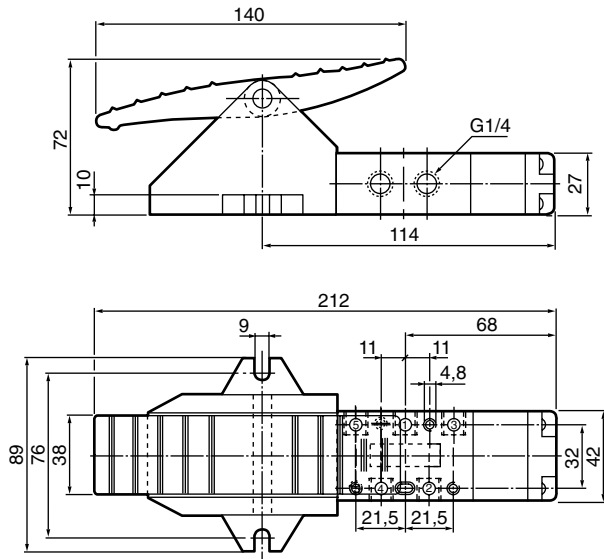
**Dimensions, G1/4 ported spool valves**

All dimensions in mm unless otherwise stated

**Manually operated valves**

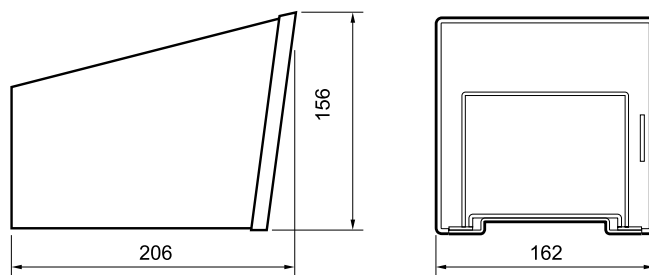
**5/3 valves**

Foot pedal operated



**Foot guard kit**

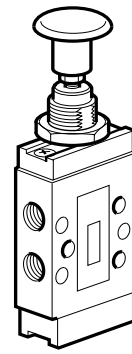
3117



Service and Replacement Parts

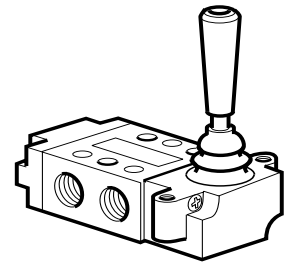
**B43 Series Manually Operated Valves**

Order code	Actuator	Replacement actuator	Repair kit
<b>B43003BXS</b>	Button	43004BX-100	Body seal 43007A
<b>B43004BXS</b>	Button		
<b>B43004HXS</b>	Button, Push/Pull	43004H-100	43007A
<b>B43003LS</b>	Lockdown lever	43004L-200	
<b>B43004LS</b>	Lockdown lever		



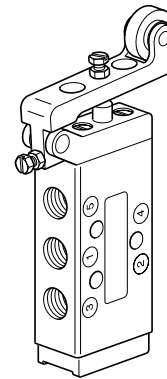
**B53 Series Manually Operated Valves**

Order code	Actuator	Replacement actuator	Repair kit
<b>B53003HXS</b>	Button	53004HX-100	Body seal 53007
<b>B53004HXS</b>	Button		
<b>B53003HX</b>	Button, Push/Pull	53004HX-100	53007
<b>B53004HX</b>	Button, Push/Pull		
<b>B53004HXX</b>	Button, Self centring	53004L-196	Body seal 53007
<b>B53004HXY</b>	Button, Self centring		
<b>B53004HXZ</b>	Button, Self centring	53004L-198	Lever kit 53004L-300R
<b>B53003FS</b>	Foot		
<b>B53004FS</b>	Foot	53004L-198	Lever kit 53004L-300R
<b>B53003LS</b>	Lever		
<b>B53004LS</b>	Lever	53004L-196	Body seal 53007
<b>B53003LT</b>	Lever, 2 positions		
<b>B53004LT</b>	Lever, 2 positions	53004L-100	Lever kit 53004L-300R
<b>B53004L</b>	Lever, 3 positions		
<b>B53004LW</b>	Lever, 3 positions	53004L-198	Lever kit 53004L-300R
<b>B53004LX</b>	Lever, Self centring		
<b>B53004LY</b>	Lever, Self centring		



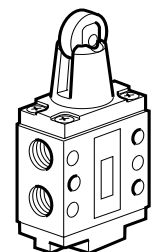
**B43 Series Mechanically Operated Valves**

Order code	Actuator	Replacement actuator	Repair kit
<b>B43003CS</b>	Plunger	43004C-100	Body seal 43007A
<b>B43004CS</b>	Plunger		
<b>B43003RS</b>	Roller Lever	43004R-200	43007A
<b>B43004RS</b>	Roller Lever		



**B53 Series Mechanically Operated Valves**

Order code	Actuator	Replacement actuator	Repair kit
<b>B53003CS</b>	Plunger	53004C-100	Body seal 53007
<b>B53004CS</b>	Plunger		
<b>B53003RS</b>	Roller	53004R-100	53007
<b>B53004RS</b>	Roller		



 Indicates stocked product.

## 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 Pneumatic 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

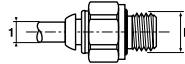
## Accessories

### Sintered bronze series



Port	Order code	Pack Qty
G1/8	<b>9090050700</b>	1
G1/4	<b>P6M-BAA2</b>	1

### Male straight connectors - Parallel thread



Tube Ø1	Thread B	Order code	Box Qty
4	1/8	<b>F4PMB4-1/8</b>	20
6	1/8	<b>F4PMB6-1/8</b>	30
6	1/4	<b>F4PMB6-1/4</b>	30
8	1/8	<b>F4PB8-1/8</b>	40
8	1/4	<b>F4PB8-1/4</b>	30
8	3/8	<b>F4PB8-3/8</b>	20
10	1/4	<b>F4PB10-1/4</b>	20

 Indicates stocked product.







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