Parker Pneumatic

Pneumatik-Ventile

Sitzventile Serie B43

G1/8; 3/2-Wege

Katalog 2132D-ca

Poppet valves G1/8

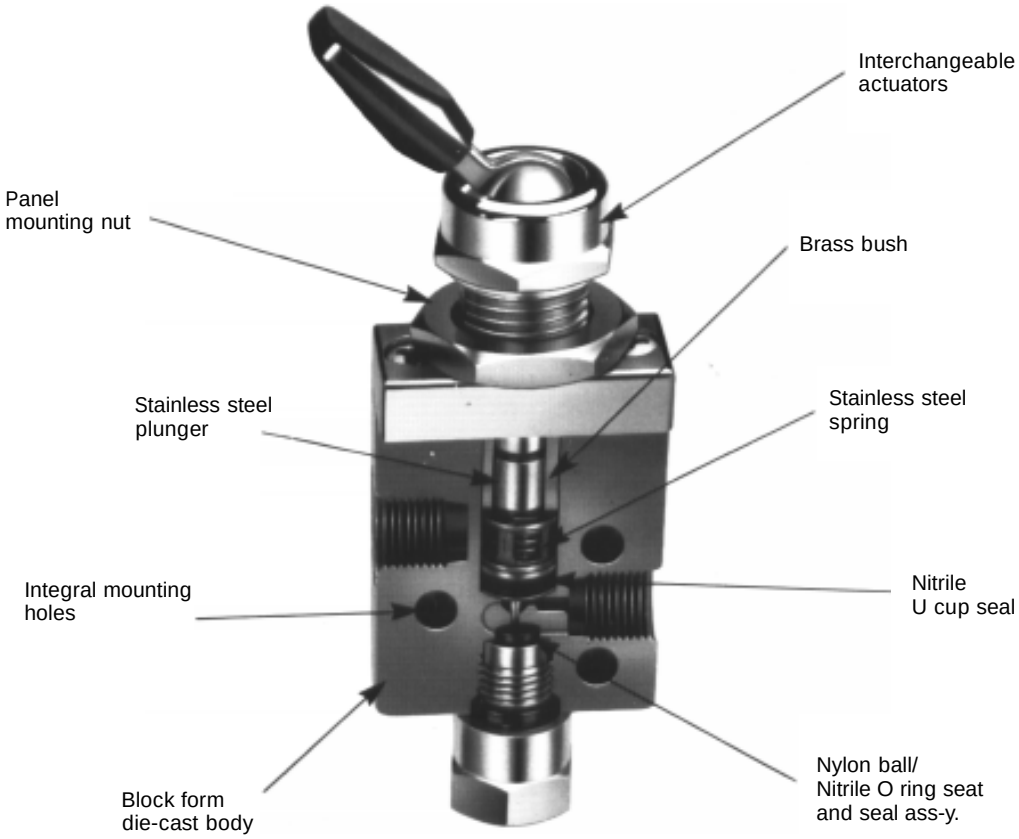
Midget poppet valves

Combining, versatility, compactness and the rugged design characteristics of the poppet mechanism. This range of poppet valves, provides units that are light to operate and give long and trouble free operational life.

The body is a block-form die-casting in zinc. The poppet mechanism uses a nylon ball and a synthetic rubber 'O' ring as the main seat and seal respectively, the exhaust seal is of 'U' cup form, working with a stainless steel plunger. All the valves are greased during assembly, they will run for long periods without further lubrication.

Designed for use with air, the small poppet area requires only a light force to operate any of the valves, a factor particularly useful in the mechanically operated types, other available actuators cover the automatic and manual operation. The return mechanism after actuation is by spring on all valves in the range.

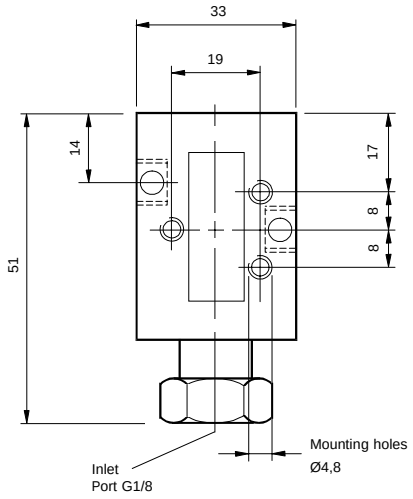
Features



Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Poppet valves G1/8

Basic body dimensions (mm)



Repair kits

Description	Part no.
Mechanically, manually and air pilot operated valves	**43608**
Diaphragm operated valves.	**43608B**

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 airline equipment.

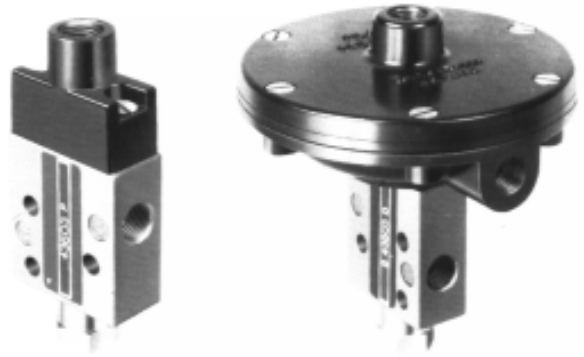
The list opposite does not preclude the use of oils manufactured by other companies but oils must be pariffic based.

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.

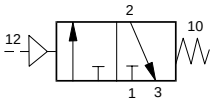
Oil company	Grade	Viscosity
Century oils	P.W.L.A	32
Alexander Duckham	Zircon 4	32
Gulf oil (GB) Limited	Harmony 43 AW	32
Shell (UK) oil	Tellus 37	37
Burmah Castrol	Hyspin AWS 32	32
Edgar Vaughan	Y Hydrodrive HP 100	32
Esso Petroleum	Nuto H32	32
B.P.	HLP 32	32
Mobil Oil Company	DTE Oil - Light	32
Motul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

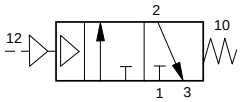
Poppet valves G1/8

Air pilot and diaphragm operated



Symbol





Materials

Body	Zinc diecast
Stem	Stainless steel
Spring housing	Aluminium
Seals	Nitrile
Spring	Stainless steel

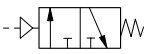
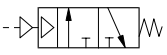
Technical information

Type	Poppet valve
Style	Body ported
Port size	G1/8
Mounting	Any plane
Temperature range	-10°C to +80°C

Pneumatic information

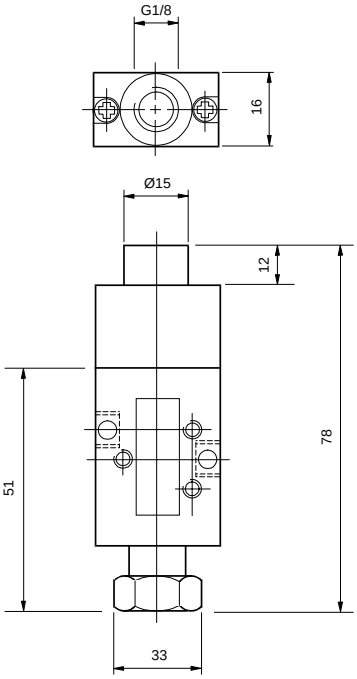
Pressure range	0 to 10 bar
Minimum pilot pressure	0,8 bar
Minimum dia. pressure	0,14 bar
Nominal Ø	3,2mm
Nominal flow at 7 bar	3,7 dm³/sec
Cv factor	0,175

Ordering information

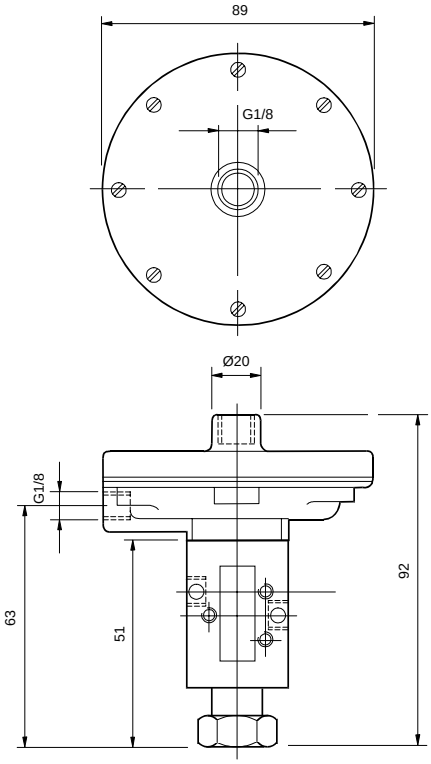
Part nos.	Actuator	Symbol
B43603P	Air pilot	
B43603D	Diaphragm	

Poppet valves G1/8

Air pilot operated dimensions (mm)



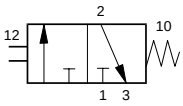
Diaphragm operated dimensions (mm)



Poppet valves G1/8

Mechanically operated valves

Symbol



Materials

Body	Zinc diecast
Stem	Stainless steel
Spring housing	Aluminium
Seals	Nitrile
Spring	Stainless steel

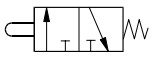
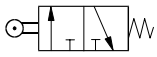
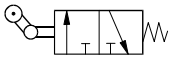
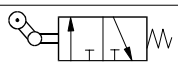
Technical information

Type	Poppet valve
Style	Body ported
Port size	G1/8
Mounting	Any plane
Temperature range	-10°C to +80°C

Pneumatic information

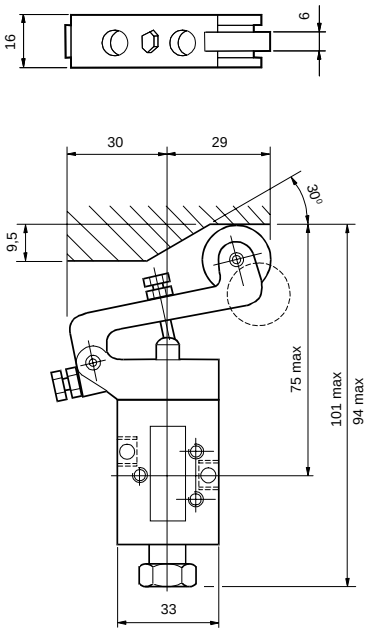
Pressure range	0 to 10 bar
Minimum pilot pressure	0,8 bar
Minimum dia. pressure	0,14 bar
Nominal Ø	3,2mm
Nominal flow at 7 bar	3,7 dm³/sec
Cv factor	0,175

Ordering information

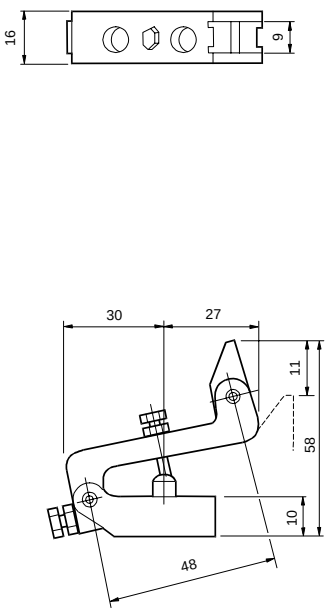
Part nos.	Actuator	Symbol	Operating force
B43603C	Plunger		11 N
B43603R	Roller		6 N
B43603RT	One way roller trip		6 N
B43603T	One way trip		6 N

Poppet valves G1/8

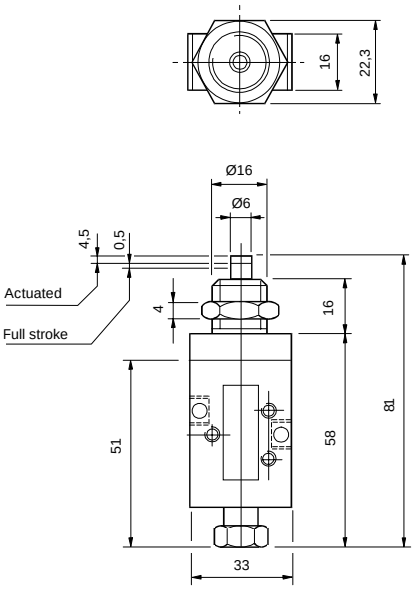
Roller operated spring return



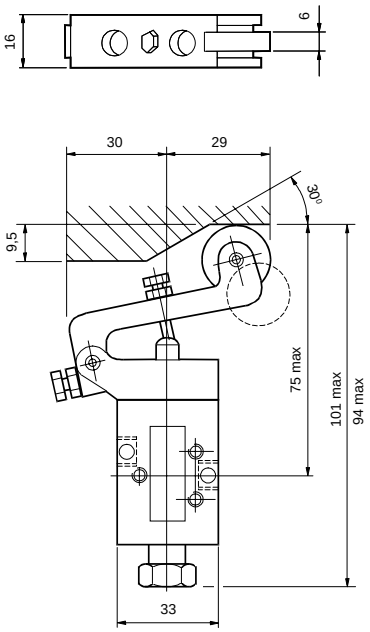
One way trip



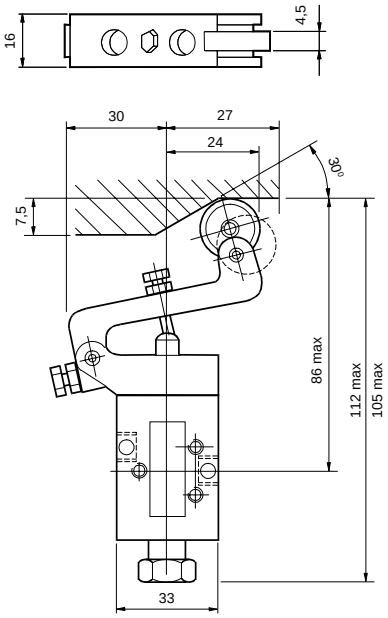
Plunger operated



Roller operated



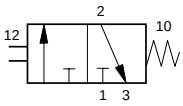
One way roller trip operated



Poppet valves G1/8

Manually operated valves

Symbol



Materials

Body	Zinc diecast
Stem	Stainless steel
Spring housing	Aluminium
Seals	Nitrile
Spring	Stainless steel

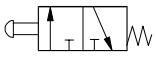
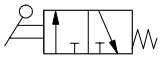
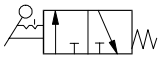
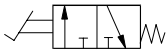
Technical information

Type	Poppet valve
Style	Body ported
Port size	G1/8
Mounting	Any plane
Temperature range	-10°C to +80°C

Pneumatic information

Pressure range	0 to 10 bar
Minimum pilot pressure	0,8 bar
Minimum dia. pressure	0,14 bar
Nominal Ø	3,2mm
Nominal flow at 7 bar	3,7 dm³/sec
Cv factor	0,175

Ordering information

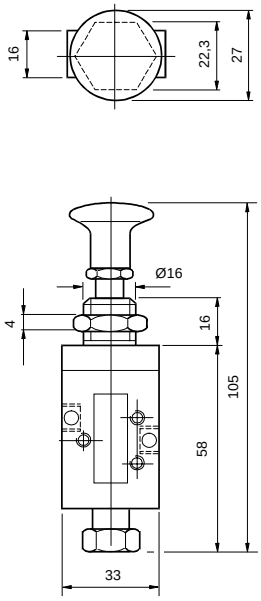
Part nos.	Actuator	Symbol	Operating force
B43603B	Button		11 N
B43603E	Palm lever		5 N
B43603L	Lock down lever		5 N
B43603F	Foot		10 N

Button colours		
Black	:	X
Red	:	Y
Green	:	Z

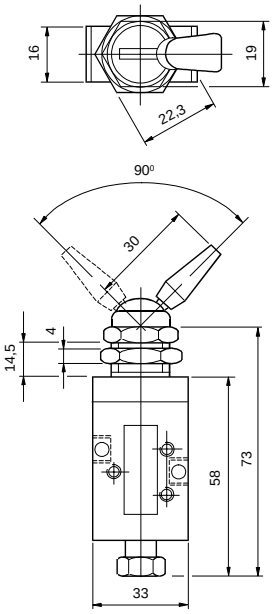
Add suffix to part no.

Poppet valves G1/8

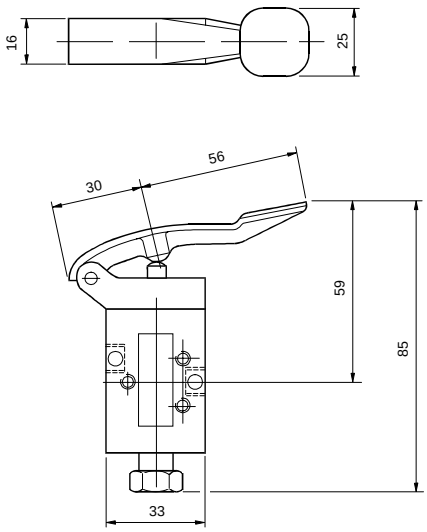
Button operated



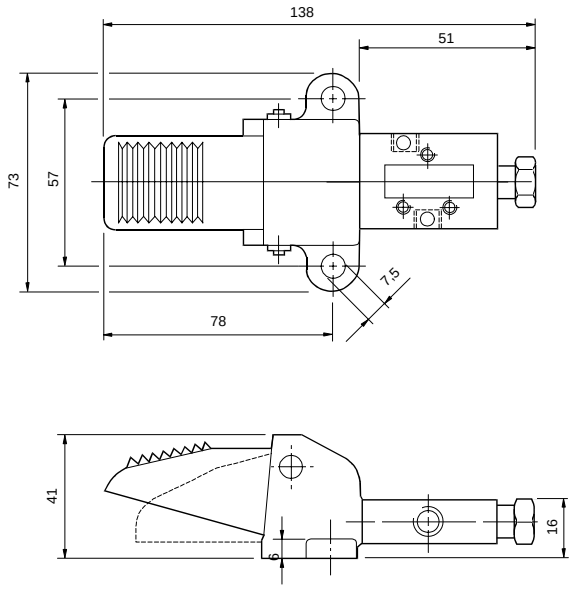
Lock down lever operated



Palm lever operated

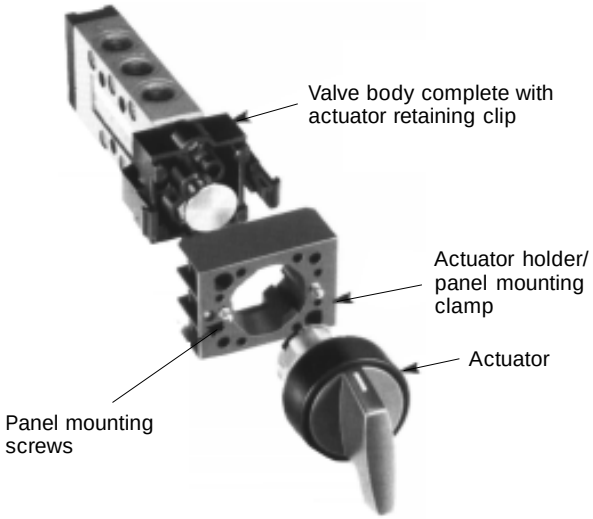


Foot pedal operated

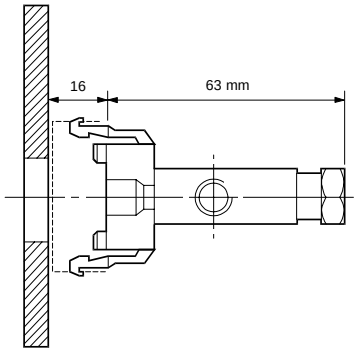


Facia actuators Ø22mm, G1/8 3/2 - 5/2

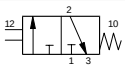
The system



Dimensions (mm)



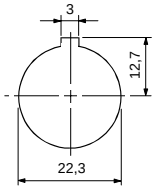
Basic valve with adaptor

Part no.	Type	Symbol
B43603-100A	3/2	

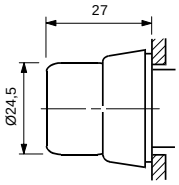
Mounting

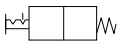
Assembly is simple; the actuators fit into the holder/panel mounting clamp with bayonet fixing. The panel mounting screws may then be tightened up to the panel as required and the valve body assembly clipped on. No seals or special tools are required, interchanging actuators or valve body assemblies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

Ø22mm

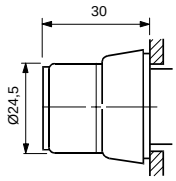


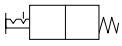
Latching trust button



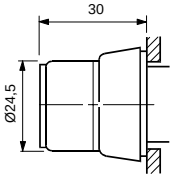
	Latching trust button
Colour	
White	**33000-100UFWS**
Blue	**33000-100UFXS**

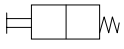
Key switch-latching



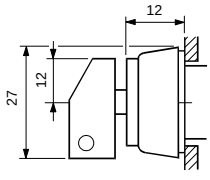
		Key switch-latching
Locked position	Withdrawal position	
In or out	Either	**33000-100KAS**
In	Un-locked	**33000-100KBS**
Out	Locked	**33000-100KCS**

Key switch non-latching



		Key switch non-latching
Locked position	Withdrawal position	
Out	Un-locked	**33000-100KDS**
In	Locked	**33000-100KES**

Key switch 'stay-put'



	Key switch 'stay-put'
Withdrawal position	
Either	**33000-100KFS**

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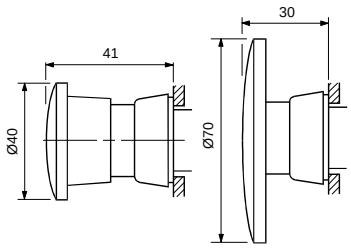
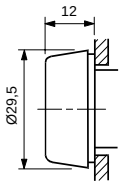
Facia actuators Ø22mm, G1/8 3/2 - 5/2

Emergency buttons



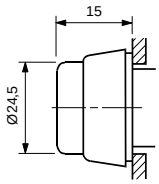
	Emergency button	
Colour		Type
Red	**33000-100BEYS**	Ø40 Mushroom, key release
Red	**33000-100BGYS**	Ø40 Mushroom latching
Red	**33000-100BPYS**	Raised latching button
Red	**33000-100BRYS**	Ø70 Mushroom latching

Flush push button



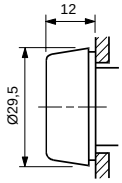
	Flush push button
Colour	
Yellow	**33000-100BATS**
Blue	**33000-100BAUS**
White	**33000-100BAWS**
Black	**33000-100BAXS**
Red	**33000-100BAYS**
Green	**33000-100BAZS**

Raised push button



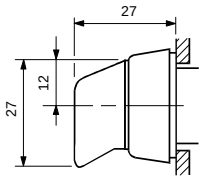
	Raised push button
Colour	
Yellow	**33000-100BBTS**
Blue	**33000-100BBUS**
Black	**33000-100BBXS**
Red	**33000-100BBYS**

Push button with boot



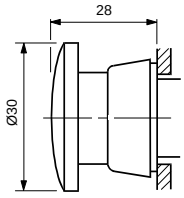
	Push button with boot
Colour	
Yellow	**33000-100BCTS**
Blue	**33000-100BCUS**
White	**33000-100BCWS**
Black	**33000-100BCXS**
Red	**33000-100BCYS**
Green	**33000-100BCZS**

Latching and Non latching selector knob



	Latching	Non latching
Colour		
White	**33000-100UAWS**	**33000-100UBWS**
Black	**33000-100UAXS**	**33000-100UBXS**
Red	**33000-100UAYS**	**33000-100UBYS**
Green	**33000-100UAZS**	**33000-100UBZS**

Ø30mm Mushroom button



	Ø30mm Mushroom button
Colour	
White	**33000-100BDTS**
Black	**33000-100BDXS**
Red	**33000-100BDYS**
Green	**33000-100BDZS**