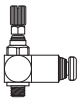
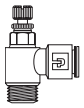
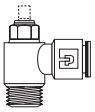
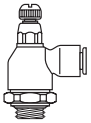
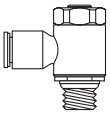
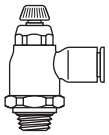
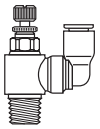
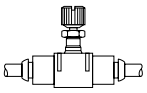
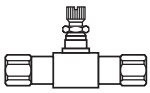
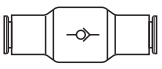
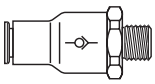
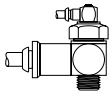
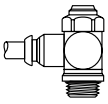
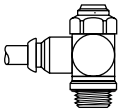
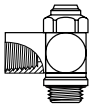
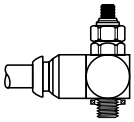
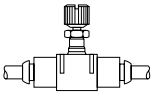
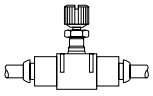
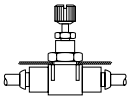
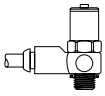
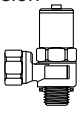
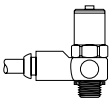
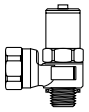
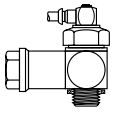
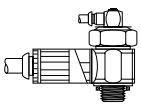
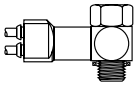
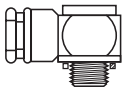
Integrated Fittings

The World Standard

C

Right Angle Flow Controls	**FC701** Push-In Connection  Page C5	**FC702** Threaded Connection  Page C5	**FCM701** Miniature  Page C6	**FCM703** Miniature  Page C6	**FCS701** Swivel Outlet  Page C5	**FC705** Metal  Page C7
FCC701 Knobless Compact  Page C7	**FCC703** Compact  Page C7	**FCS703** Swivel Outlet  Page C6	**In-Line Flow Controls**	**FC800** Push-In Connection  Page C22	**FC806** Threaded Connection  Page C22	
Non-Return Valves	**NRV800** In-Line  Page C32	**NRV808** Male  Page C32	**Slow Start Valves**	**FC902** Threaded Connection  Page C14		
Blocking Valves	**FC601** Push-In Connection  Page C18	**FC602** Threaded Connection  Page C18	**Metric Right Angle Flow Controls**	**PT4/8PB** Exhaust Flow  Page C10	**PTFA4/8PB** Inlet Flow  Page C10	**PTF4** Exhaust Flow  Page C10
PTFL4/8PB Exhaust Flow  Page C12	**PTFAL8PB** Inlet Flow  Page C12	**PTFL4/8** Exhaust Flow  Page C12	**PTFAL8** Inlet Flow  Page C12	**PTF4/8E6PB** Swivel Outlet  Page C13		
Metric In-Line Flow Controls	**PTFIPK** Metric Push-In  Page C23	**PTFMIPK** Ultrafine Adjustment  Page C24	**PTFIWPK** Panel Mountable  Page C24			
Metric Slow Start Valves	**PCV4PK** Power Valve Version  Page C16	**PCV4** Power Valve Version  Page C16	**PIV4PK** System Isolating  Page C16	**PIV4** System Isolating  Page C16	**Metric Blocking Valves**	**PWB** Metric  Page C20
Metric Combination Valves	**PWR-HB / PWR-HE** Metric  Page C25	**Metric Sensor Valves**	**PTP4/8PB** Pneumatic Output  Page C26	**PWS-M** Sensor-Electrical  Page C27	**PWS-E** Sensor-Electrical  Page C27	**PWS-B** Banjo Socket  Page C27

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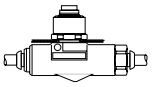
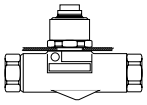
Metric Reducing Valves	**PRB4PB** Push-In Connection  Page C29	**PRB4** Theaded Connection  Page C29	**PR1PB** In-Line  Page C29	**PR14** In-Line  Page C29	**Metric Silencer & Flow Control**	**PRS** Silencer  Page C30

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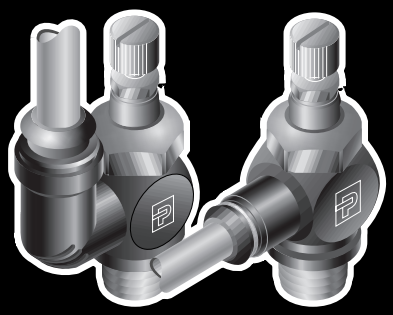


Right Angle Flow Control Valves

General Information
Parker offers a wide range of flow controls to meet a large variety of applications. Parker flow controls are designed for mounting directly onto the cylinder ports to provide precise control of piston rod speed. Due to their compactness they are particularly suitable for applications where space is at a premium.

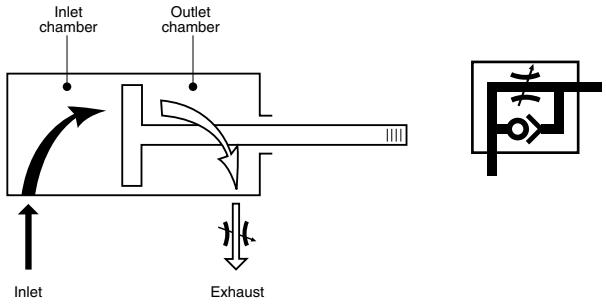
General Principle
The piston rod moves as a result of the pressure differential on either side of the piston. The speed of the rod is normally determined by the exhaust air flow from the cylinder, although certain applications require control from the inlet. The control of the air flow is via an adjustable flow control valve installed on the exhaust port.

Operation
The mounting of two flow controls on a cylinder permits speed control of the cylinder rod in both directions. Air passes freely through the flow control valve A, with the check valve in the open position. The exhaust is controlled by the flow control valve B, where the check valve in the closed position forces the air to go through the adjustable needle valve. The function of A and B are reversed when inlet air is applied to port B.

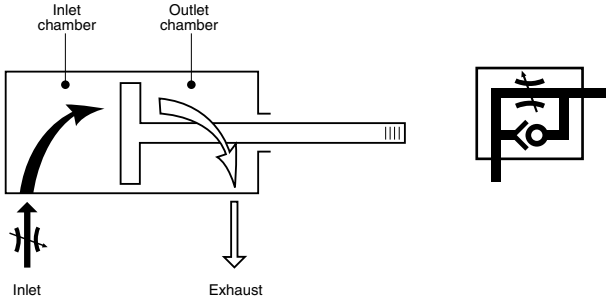
Advantages
- Direct mounting
- Compact
- Positional
- Optimum flow control
- Swivel outlet for use where access is restric

Valve Specifications
Maximum working pressure: 145 PSI
Operating Temperature: - 10° to 200° F
Body Material: Brass black epoxy coated
Bolt Material: Brass

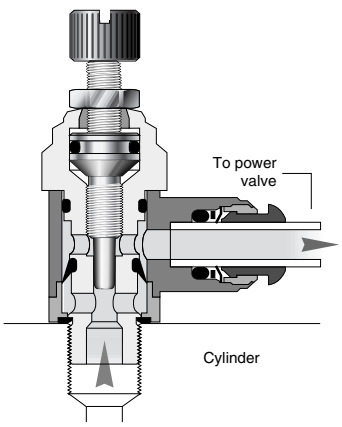
THREAD SIZE	MAXIMUM ASSEMBLY TORQUE FT.-LB
10-32 UNF	0.37
1/8 NPTF	9
1/4 NPTF	17
3/8 NPTF	26
1/2 NPTF	34

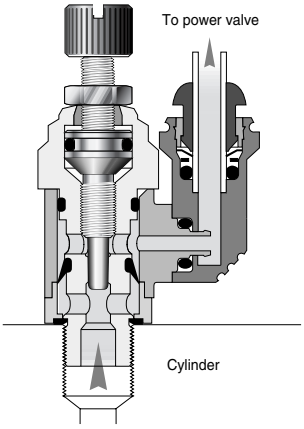


Flow regulation on the exhaust port

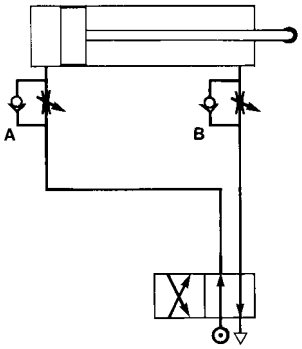


Flow regulation on the inlet port





Flow control on a double acting cylinder



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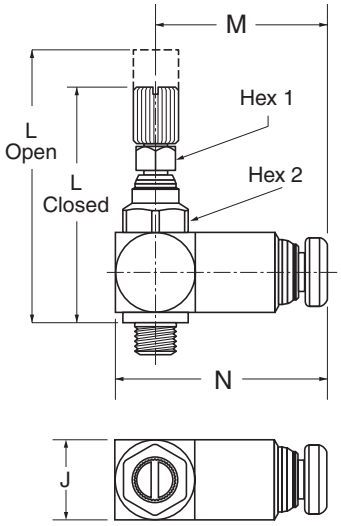
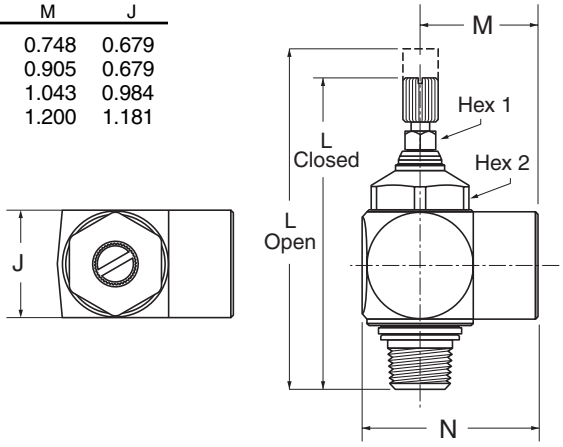
Flow Control with Push-in Connecton FC701

PART NO.	TUBE SIZE	THREAD SIZE	HEX 1	HEX 2	L OPEN	L CLOSED	N	M	J
FC701-2-0	1/8	10-32	1/16	5/16	1.363	1.167	1.040	0.870	0.393
FC701-2-2	1/8	1/8	5/16	5/8	2.181	2.000	1.330	0.961	0.679
FC701-5/32-0	5/32	10-32	1/16	5/16	1.363	1.167	1.067	0.870	0.393
FC701-5/32-2	5/32	1/8	5/16	5/8	2.181	2.000	1.370	1.000	0.679
FC701-5/32-4	5/32	1/4	5/16	5/8	2.566	2.318	1.377	1.008	0.679
FC701-4-2	1/4	1/8	5/16	5/8	2.181	2.000	1.361	0.992	0.679
FC701-4-4	1/4	1/4	5/16	5/8	2.566	2.318	1.381	1.011	0.679
FC701-4-6	1/4	3/8	5/16	13/16	3.157	2.696	1.582	1.090	0.984
FC701-6-4	3/8	1/4	5/16	5/8	2.566	2.318	1.507	1.138	0.679
FC701-6-6	3/8	3/8	5/16	13/16	3.157	2.696	1.677	1.177	0.984
FC701-6-8	3/8	1/2	9/16	1	3.858	3.287	1.866	1.276	1.181
FC701-8-8	1/2	1/2	9/16	1	3.858	3.287	2.024	1.433	1.181



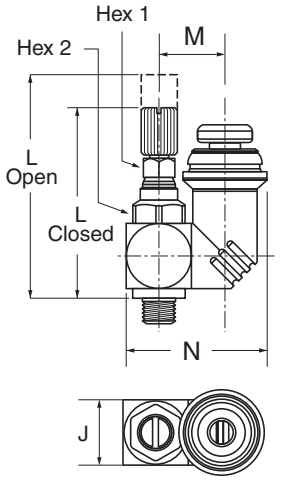
Flow Control with Threaded Connection FC702

PART NO.	MALE PIPE	FEMALE PIPE	HEX 1	HEX 2	L OPEN	L CLOSED	N	M	J
FC702-2	1/8	1/8	5/16	5/8	2.181	2.000	1.117	0.748	0.679
FC702-4	1/4	1/4	5/16	5/8	2.566	2.318	1.274	0.905	0.679
FC702-6	3/8	3/8	5/16	13/16	3.157	2.696	1.535	1.043	0.984
FC702-8	1/2	1/2	9/16	1	3.858	3.287	1.791	1.200	1.181



Flow Control with Swivel Outlet FCS701

PART NO.	TUBE SIZE	THREAD SIZE	HEX 1	HEX 2	L OPEN	L CLOSED	N	M	J
FCS701-2-2	1/8	1/8	5/16	5/8	2.181	2.000	1.240	0.620	0.679
FCS701-5/32-0	5/32	10-32	1/16	5/16	1.363	1.167	0.854	0.401	0.393
FCS701-5/32-2	5/32	1/8	5/16	5/8	2.181	2.000	1.239	0.618	0.679
FCS701-5/32-4	5/32	1/4	5/16	5/8	2.566	2.318	1.240	0.620	0.679
FCS701-4-2	1/4	1/8	5/16	5/8	2.181	2.000	1.318	0.657	0.679
FCS701-4-4	1/4	1/4	5/16	5/8	2.566	2.318	1.318	0.657	0.679
FCS701-5-4	5/16	1/4	5/16	5/8	2.566	2.318	1.392	0.696	0.679
FCS701-6-4	3/8	1/4	5/16	5/8	2.566	2.319	1.535	0.755	0.679
FCS701-6-6	3/8	3/8	5/16	13/16	3.157	2.696	1.740	0.834	0.984
FCS701-6-8	3/8	1/2	9/16	1	3.858	3.287	1.619	0.992	1.181



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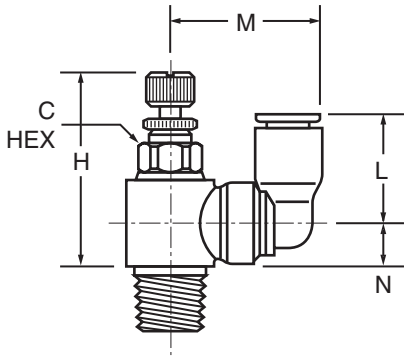
Miniature Swivel Outlet Flow Control FCS703

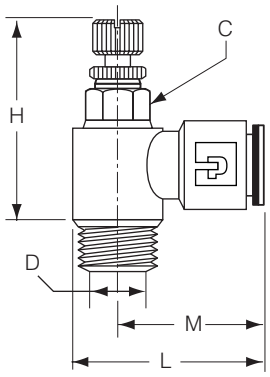
PART NO.	TUBE SIZE	THREAD SIZE	C HEX (MM)	H CLOSED	H OPEN	L	M	N
FCS703-5/32-0	5/32	10-32	6	.96	1.08	.55	.73	.26
FCS703-5/32-2	5/32	1/8	8	1.08	1.20	.55	.73	.33



Miniature Exhaust Flow Control FCM701

Composite Body

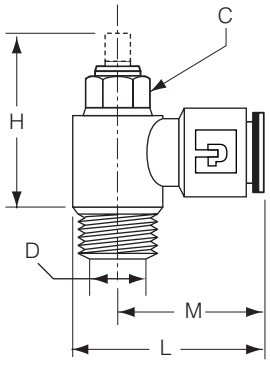
PART NO.	TUBE SIZE	THREAD SIZE	C HEX (MM)	H CLOSED	H OPEN	L	M	FLOW DIA. D
FCM701-5/32-0	5/32	10-32	6	.925	1.023	.846	.669	.080
FCM701-5/32-2	5/32	1/8	7	1.000	1.083	.935	.708	.100
FCM701-4-0	1/4	10-32	6	.925	1.023	.885	.708	.080
FCM701-4-2	1/4	1/8	7	1.000	1.083	.957	.730	.100
FCM701-4-4	1/4	1/4	8	1.083	1.180	1.013	.748	.160



Knobless Miniature Exhaust Flow Control FCM703

Composite Body

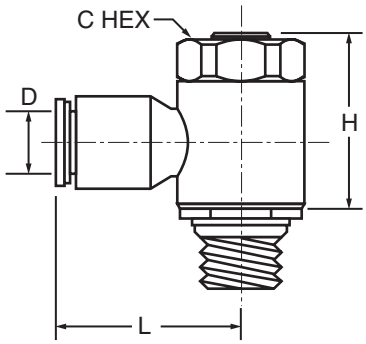
PART NO.	TUBE SIZE	THREAD SIZE	C HEX (MM)	H CLOSED	H OPEN	L	M	FLOW DIA. D
FCM703-5/32-0	5/32	10-32	6	.650	.787	.846	.669	.080
FCM703-5/32-2	5/32	1/8	6	.708	.860	.935	.708	.100
FCM703-4-0	1/4	10-32	6	.650	.790	.825	.650	.080
FCM703-4-2	1/4	1/8	7	.708	.860	.956	.730	.100
FCM703-4-4	1/4	1/4	8	.826	.964	.1.013	.748	.160



Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

Knobless Compact Flow Control FCC701

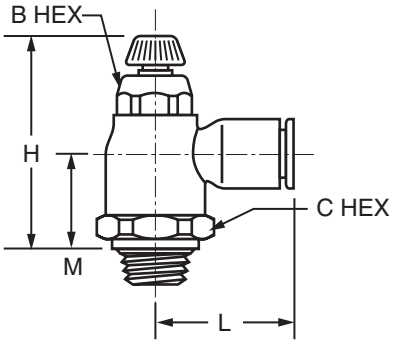
PART NO.	TUBE SIZE	THREAD SIZE	C HEX (MM)	H	L
FCC701-2-2	1/8	1/8	13	.79	.75
FCC701-5/32-2	5/32	1/8	13	.79	.75
FCC701-4-2	1/4	1/8	13	.79	.85
FCC701-4-4	1/4	1/4	17	1.04	.89
FCC701-5-2	5/16	1/8	13	.79	1.02
FCC701-5-4	5/16	1/4	17	1.04	1.06
FCC701-6-4	3/8	1/4	17	1.04	1.14
FCC701-6-6	3/8	3/8	20	1.14	1.36



C

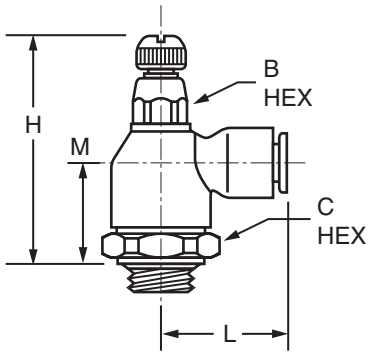
Compact Exhaust Flow Control FCC703

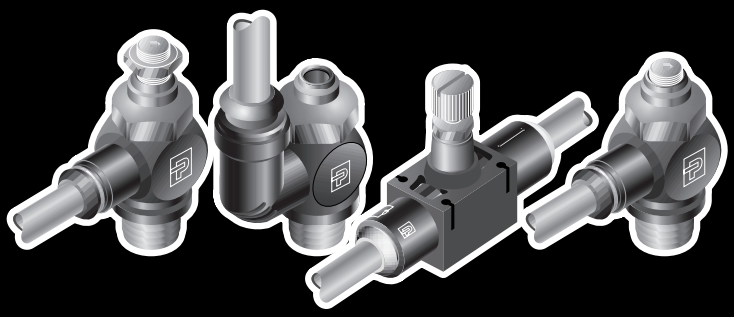
PART NO.	TUBE SIZE	THREAD SIZE	B HEX	C HEX	H CLOSED	H OPEN	L	M
FCC703-5/32-2	5/32	1/8	.39	.63	1.44	1.67	.85	.59
FCC703-4-2	1/4	1/8	.39	.63	1.44	1.67	.85	.59
FCC703-6-4	3/8	1/4	.67	.91	1.71	2.03	1.22	.71



Push-to-Connect Exhaust Metal Flow Control FC705

PART NO.	TUBE SIZE	THREAD SIZE	B HEX	C HEX	H CLOSED	H OPEN	L	M
FC705-5/32-2	5/32	1/8	.39	.75	1.79	2.01	.85	.87
FC705-4-2	1/4	1/8	.39	.75	1.79	2.01	.85	.87
FC705-4-4	1/4	1/4	.39	.75	1.79	2.01	.97	.87
FC705-6-4	3/8	1/4	.55	.75	1.91	2.11	1.14	.91
FC705-6-6	3/8	3/8	.67	.99	2.15	2.40	1.40	.91





Metric Right Angle Flow Control Valves

Prestoflow - Flow regulators

Parker offers a wide range of flow regulators to meet a large variety of applications. Prestoflow can be fitted directly to a cylinder port or mounted in the line. Prestoflow regulators with push-in terminations are suitable for use with a wide range of plastic tubing. Prestoflow regulators with threaded terminations can be adapted for use with copper and steel tubing or hoses.

General principle

The piston rod moves as a result of the pressure differential on either side of the piston. The speed of the rod is normally determined by the exhaust air flow from the cylinder. The control of this air flow is via an adjustable needle valve installed on the exhaust port.

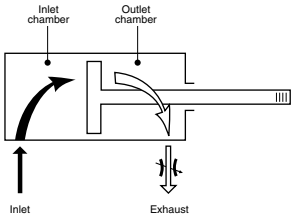
On single acting cylinders and some miniature (M5) double acting cylinders, the air flow can be controlled from the inlet port.

To permit regular and smooth movement of the piston rod, flow control should be made as near to the cylinder as possible.

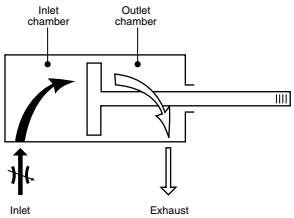
Operation

The mounting of two flow control devices on a cylinder permits speed control of the cylinder rod in both directions.

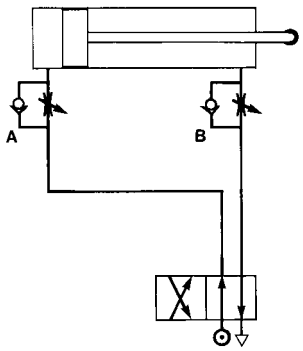
The sketch opposite shows a cylinder with inlet air at port A. Air passes freely through the flow control valve A, with the check valve in the open position. The exhaust is controlled by the flow control fitting B, where the check valve in the closed position forces the air to go through the adjustable needle valve. The function of A and B are reversed when inlet air is applied to port B.



Flow regulation on the exhaust port



Flow regulation on the inlet port



Flow control on a double acting cylinder

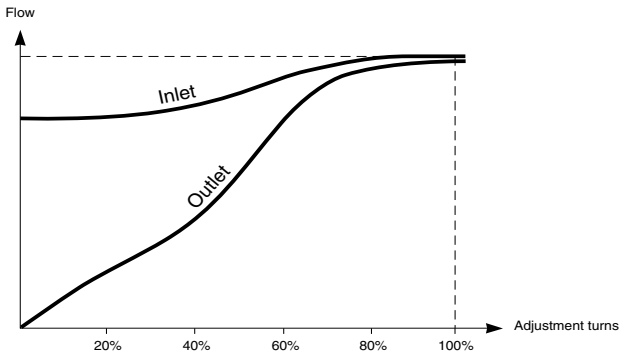
Flow characteristics

Prestoflow pneumatic integrated fittings are designed to permit maximum flow in both directions. This full flow in both directions, together with the very precise setting of the screw, permits a wide range of adjustment between the minimum and maximum speeds. The sketch opposite shows the flow progression according to the adjustment of the screw.

Flow regulators - assembly torques

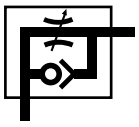
To ensure a leak free connection for port mounted regulators the regulator bolt should be tightened in accordance with the table opposite.

ASSEMBLY TORQUE		
THREAD	MIN. NM	MAX. NM
M5	0.2	0.5
1/8	6	9
1/4	10	15
3/8	14	22
1/2	30	42

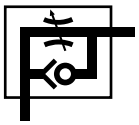


Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

Prestoflow - Flow regulator - Compact series



Exhaust flow control



Inlet flow control

C

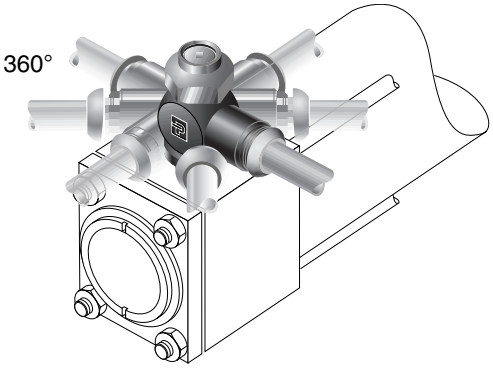
Principle

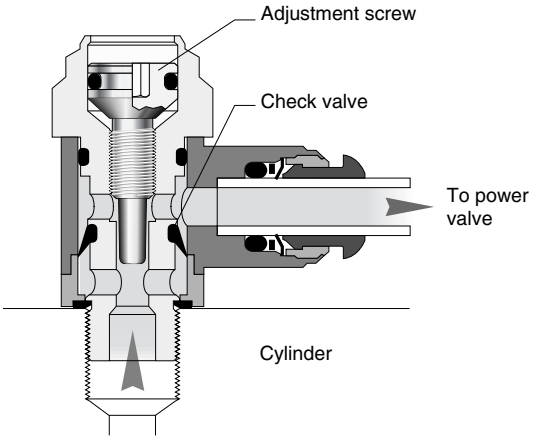
Prestoflow compact flow regulators are designed for mounting directly onto cylinder ports to provide precise control of piston rod speed. Thanks to their compactness they are particularly suitable for applications where space is at a minimum. These unidirectional flow regulators are available for exhaust or inlet flow control.

- A check valve blocks the full flow ports in the exhaust or inlet direction.
- The flow is controlled by a needle valve fitted in the regulator bolt.

Flow adjustment

Flow control is adjusted with an Allen key. The large number of turns from fully closed to fully open allows for precise flow control.





Technical

BODY MATERIAL	BOLT MATERIAL	BOLT THREAD	SEALING DEVICE		TERMINATIONS		WORKING TEMPERATURE	WORKING PRESSURE
Brass Black Epoxy Coated	Brass	M5 1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	M5 Thread Nylon Washer	1/8 - 1/2 BSPP Nitrile E.D. Seal	4 mm - 12 mm Push-In Connection	1/8 - 1/2 BSPP +M5 Female Thread DIN 3852 Long	From 0° to +200° F	140 PSI

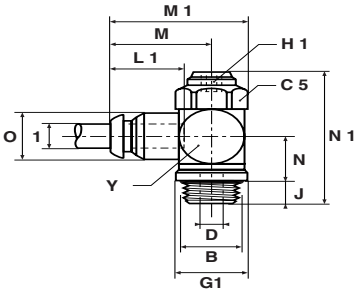
Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

C

PTF4/8PB Flow Regulator with Push-In Connection

PART NO.	1	B	C5	D	G1	H1	J	M	M1	N	N1	O	Y
PTF8PB4M5*	4	M5x0.8	8	1.65	10.0	1.5	4	19.5	24.5	6.3	22.0	10	10
PTF4PB4-1/8	4	1/8	14	3.00	14.4	2.0	6	22.0	30.1	10.7	34.5	10	14
PTF8PB6M5*	6	M5x0.8	8	1.65	10.0	1.5	4	20.5	26.5	7.3	24.5	12	12
PTF4PB6-1/8	6	1/8	14	3.20	14.4	2.0	6	23.5	31.6	10.7	34.5	12	14
PTF4PB6-1/4	6	1/4	17	5.20	18.4	4.0	7	25.0	34.9	13.8	41.0	12	17
PTF4PB6-3/8	6	3/8	22	5.50	21.6	4.0	7	28.0	40.7	17.3	51.0	12	22
PTF4PB8-1/8	8	1/8	14	3.20	14.4	2.0	6	25.0	33.1	10.7	34.5	14	14
PTF4PB8-1/4	8	1/4	17	5.20	18.4	4.0	7	28.5	38.3	13.8	41.0	14	17
PTF4PB8-3/8	8	3/8	22	6.00	21.6	4.0	7	29.5	42.2	17.3	51.0	14	22
PTF4PB10-1/4	10	1/4	17	5.20	18.4	4.0	7	31.5	41.3	13.8	41.0	17	17
PTF4PB10-3/8	10	3/8	22	6.00	21.6	4.0	7	34.0	46.7	17.3	51.0	17	22
PTF4PB10-1/2	10	1/2	27	8.00	26.5	4.0	9	36.5	52.1	20.1	61.0	17	27
PTF4PB12-3/8	12	3/8	22	6.00	21.6	4.0	7	34.0	46.7	17.3	51.0	20	22
PTF4PB12-1/2	12	1/2	27	8.50	26.5	4.0	9	36.5	52.1	20.1	61.0	20	27

* These fittings are supplied with Nylon seal.

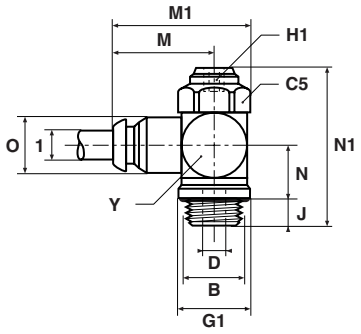


Exhaust Flow Control

PTFA4/8PB Flow Regulator with Push-In Connection

PART NO.	1	B	C5	D	G1	H1	J	M	M1	N	N1	O	Y
PTFA8PB4M5*	4	M5x0.8	8	1.7	10.0	1.5	4	19.5	24.5	6.3	22.0	10	10
PTFA4PB4-1/8	4	1/8	14	3.0	14.4	2.0	6	22.0	30.1	10.7	34.5	10	14
PTFA8PB6M5*	6	M5x0.8	8	1.7	10.0	1.5	4	20.5	26.5	7.3	24.5	12	12
PTFA4PB6-1/8	6	1/8	14	3.2	14.4	2.0	6	23.5	31.6	10.7	34.5	12	14
PTFA4PB6-1/4	6	1/4	17	5.2	18.4	4.0	7	25.0	34.9	13.8	41.0	12	17
PTFA4PB8-1/8	8	1/8	14	3.2	14.4	2.0	6	25.0	33.1	10.7	34.5	14	14
PTFA4PB8-1/4	8	1/4	17	5.2	18.4	4.0	7	28.5	38.3	13.8	41.0	14	17

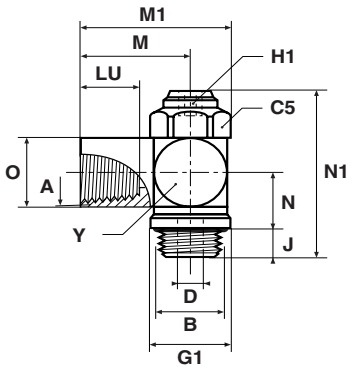
* These fittings are supplied with Nylon seal.



Inlet Flow Control

PTF4 Flow Regulator with Threaded Connection

PART NO.	A	B	C5	D	G1	H1	J	LU	M	M1	N	N1	O	Y
PTF4-1/8	1/8	1/8	14	3.2	14.4	2	6	8.5	17.5	25.6	10.7	34.5	13.9	14
PTF4-1/4	1/4	1/4	17	5.2	18.4	4	7	12.5	24.5	34.3	10.7	34.5	16.9	17
PTF4-3/8	3/8	3/8	22	6.0	21.6	4	7	12.5	27.5	40.2	13.8	41.0	21.6	22
PTF4-1/2	1/2	1/2	27	8.5	26.5	4	9	14.5	33.5	49.1	17.3	51.0	26.5	27

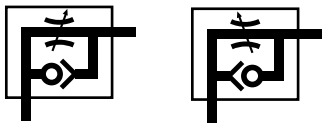


Exhaust Flow Control

Only items priced in current price list are carried in stock. Dimensions shown may be changed at any time without prior notice.

Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

Prestoflow - Flow regulator - Locknut series



Exhaust flow control

Inlet flow control

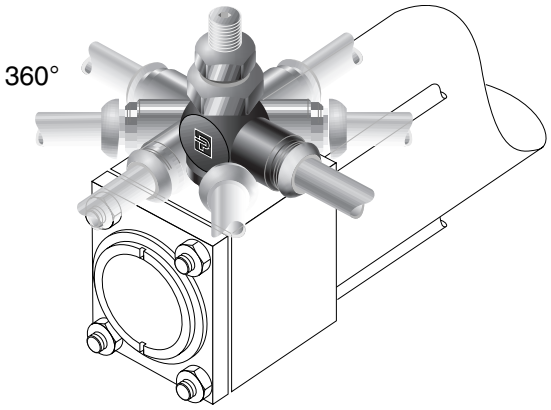
Principle

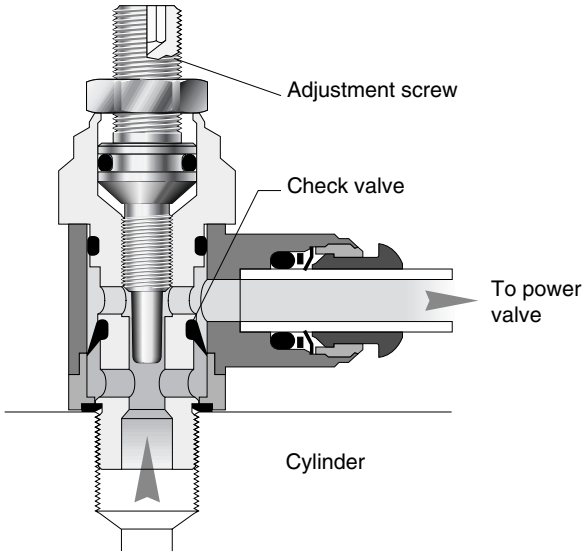
Prestoflow compact flow regulators are designed for mounting directly onto cylinder ports to provide precise control of piston rod speed. Thanks to their compactness they are particularly suitable for applications where space is at a premium. These unidirectional flow regulators are available for exhaust or inlet flow control.

- A check valve blocks the full flow ports in the exhaust or inlet direction.
- The flow is controlled by a needle valve fitted in the regulator bolt.
- The adjustment screw can be locked in position to prevent tampering

Flow adjustment

Flow control is adjusted with an Allen key. When the desired flow is set the adjusting screw can be locked using the locking nut. The large number of turns from fully closed to fully open allows for precise flow control.





C

Technical features

BODY MATERIAL	BOLT MATERIAL	LOCK NUT	BOLT THREAD	SEALING DEVICE		TERMINATIONS		WORKING TEMPERATURE	WORKING PRESSURE
Brass Black Epoxy Coated	Brass	Brass	M5 1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	M5 Thread Nylon Washer	1/8 - 1/2 BSPP Nitrile E.D. Seal	4 mm - 12 mm Push-In Connection	1/8 - 1/2 BSPP +M5 Female Thread DIN 3852 Long	From 0° to +200° F	140 PSI

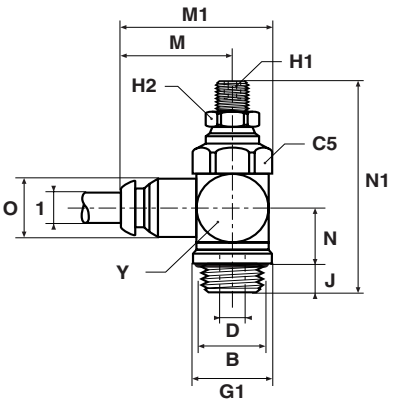
Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

C

PTFL4/8PB Flow Regulator with Push-In Connection

PART NO.	1	B	C5	D	G1	H1	H2	J	M	M1	N	N1	O	Y
PTFL8PB4M5*	4	M5x0.8	8	1.65	10.0	1.5	8	4	19.5	24.5	6.3	28.5	10	10
PTFL4PB4-1/8	4	1/8	14	3.00	14.4	2.0	7	6	22.0	30.1	10.7	43.7	10	14
PTFL8PB6M5*	6	M5x0.8	8	1.65	10.0	1.5	8	4	20.5	26.5	7.3	31.0	12	12
PTFL4PB6-1/8	6	1/8	14	3.20	14.4	2.0	7	6	23.5	31.6	10.7	43.7	12	14
PTFL4PB6-1/4	6	1/4	17	5.20	18.4	4.0	11	7	25.0	34.9	13.8	51.8	12	17
PTFL4PB6-3/8	6	3/8	22	5.50	21.6	4.0	11	7	28.0	40.7	17.3	63.7	12	22
PTFL4PB8-1/8	8	1/8	14	3.20	14.4	2.0	7	6	25.0	33.1	10.7	43.7	14	14
PTFL4PB8-1/4	8	1/4	17	5.20	18.4	4.0	11	7	28.5	38.3	13.8	51.8	14	17
PTFL4PB8-3/8	8	3/8	22	6.00	21.6	4.0	11	7	29.5	42.2	17.3	63.7	14	22
PTFL4PB10-1/4	10	1/4	17	5.20	18.4	4.0	11	7	31.5	41.3	13.8	51.8	17	17
PTFL4PB10-3/8	10	3/8	22	6.00	21.6	4.0	11	7	34.0	46.7	17.3	63.7	17	22
PTFL4PB10-1/2	10	1/2	27	8.00	26.5	4.0	14	9	36.5	52.1	20.1	76.1	17	27
PTFL4PB12-3/8	12	3/8	22	6.00	21.6	4.0	11	7	34.0	46.7	17.3	63.7	20	22
PTFL4PB12-1/2	12	1/2	27	8.50	26.5	4.0	14	9	36.5	52.1	20.1	76.1	20	27

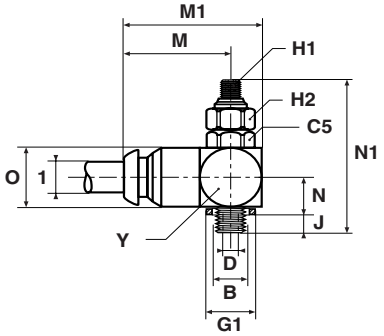
* These fittings are supplied with Nylon seal.



Exhaust Flow Control

PTFAL8PB Flow Regulator with Push-In Connection

PART NO.	1	B	C5	D	G1	H1	H2	J	M	M1	N	N1	O	Y
PTFAL8PB4M5	4	M5x0.8	8	1.65	10.0	1.5	8	4	19.5	24.5	6.3	28.5	10	10

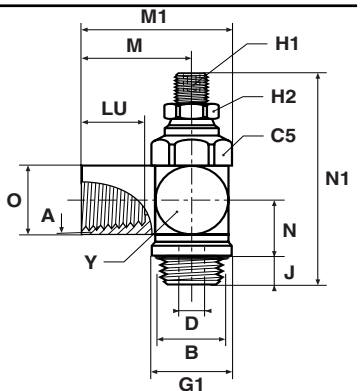


Inlet Flow Control

PTFL4/8 Flow Regulator with Threaded Connection

PART NO.	A	B	C5	D	G1	H1	H2	J	LU	M	M1	N	N1	O	Y
PTFL8M5*	M5x0.8	M5x0.8	8	1.65	10.0	1.5	8	4	5.0	11.0	16.0	6.3	28.5	8.0	10
PTFL4-1/8	1/8	1/8	14	3.20	14.4	2.0	7	6	8.5	17.5	25.6	10.7	43.7	13.9	14
PTFL4-1/4	1/4	1/4	17	5.20	18.4	4.0	11	7	12.5	24.5	34.3	10.7	51.8	16.9	17
PTFL4-3/8	3/8	3/8	22	6.00	21.6	4.0	11	7	12.5	27.5	40.2	13.8	63.7	21.6	22
PTFL4-1/2	1/2	1/2	27	8.50	26.5	4.0	14	9	14.5	33.5	49.1	17.3	76.1	26.5	27

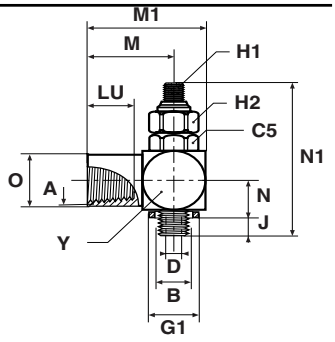
* These fittings are supplied with Nylon seal.



Exhaust Flow Control

PTFAL8 Flow Regulator with Threaded Connection

PART NO.	A	B	C5	D	G1	H1	H2	J	LU	M	M1	N	N1	O	Y
PTFAL8M5	M5x0.8	M5x0.8	8	1.65	10.0	1.5	8	4	5	11	16	6.3	28.5	8	10



Inlet Flow Control

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Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

Prestoflow - Flow regulator - Swivel outlet

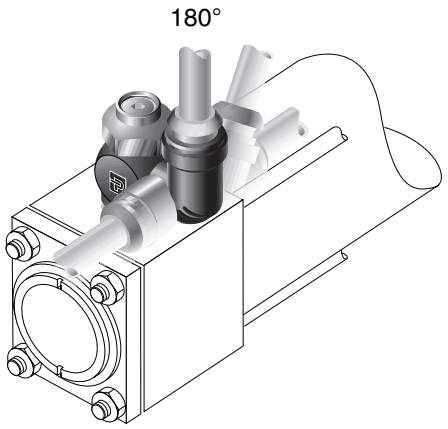
Principle

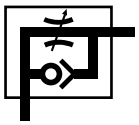
Prestoflow unidirection swivel flow regulators are designed for mounting directly onto the cylinder exhaust port and provide precise control of the piston rod speed. The swivel outlet is designed to allow vertical or oblique tube exit where access is restricted.

- A check valve blocks the full flow ports in the exhaust direction.
- The flow is controlled by a needle valve fitted in the regulator bolt.
- The swivel outlet can be positioned in the most suitable direction.

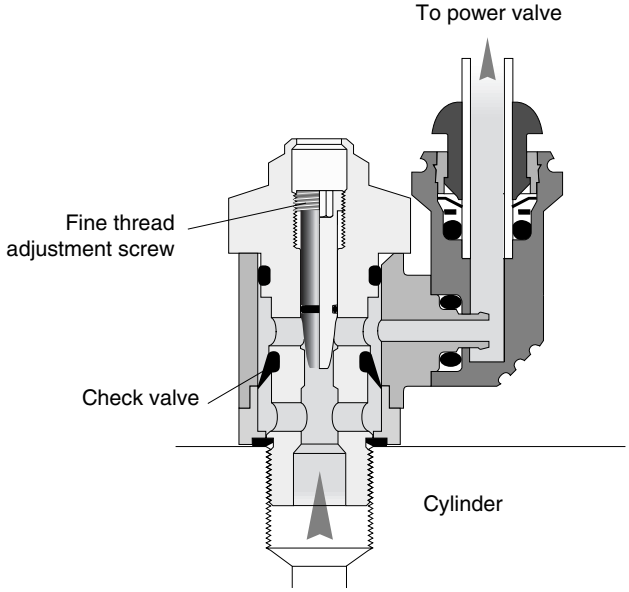
Flow adjustment

Flow control is adjusted with an Allen key. The large number of turns from fully closed to fully open allows for precise flow control.





Exhaust flow control



C

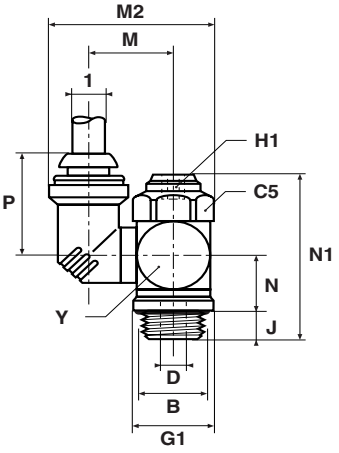
Technical features

BODY MATERIAL	SWIVEL ELBOW MATERIAL	BOLT MATERIAL	BOLT THREAD	SEALING DEVICE		TERMINATIONS	ADJUSTMENT SCREW	WORKING TEMP.	WORKING PRESSURE
Brass Black Epoxy Coated	High Resistance Polyamide	Brass	M5 1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	M5 Nylon Washer	1/8 - 3/8 BSPP Nitrile E.D. Seal	4 mm - 8 mm Push-In	Brass	From 0° to +150° F	140 PSI

PTF4/8E6PB Flow Regulator with Push-In Connection

PART NO.	1	B	C5	D	G1	H1	J	M	M2	N	N1	P	Y
PTF8E6PB4M5*	4	M5x0.8	8	1.65	10.0	1.5	4	11.7	18.4	6.2	22.5	20.5	10
PTF4E6PB4-1/8	4	1/8	14	3.00	14.4	2.0	6	14.3	30.0	10.7	34.5	20.5	14
PTF8E6PB6M5*	6	M5x0.8	8	1.65	10.0	1.5	4	12.7	20.4	7.2	24.5	23.0	12
PTF4E6PB6-1/8	6	1/8	14	3.20	14.4	2.0	6	15.3	31.0	10.7	34.5	23.0	14
PTF4E6PB6-1/4	6	1/4	17	5.20	18.4	4.0	7	17.3	35.0	13.8	41.0	23.0	17
PTF4E6PB6-3/8	6	3/8	22	5.50	21.6	4.0	7	19.8	40.0	17.3	51.0	23.0	22
PTF4E6PB8-1/8	8	1/8	14	3.20	14.4	2.0	6	16.8	33.5	10.7	34.5	25.0	14
PTF4E6PB8-1/4	8	1/4	17	5.20	18.4	4.0	7	18.3	37.0	13.8	41.0	25.0	17
PTF4E6PB8-3/8	8	3/8	22	6.00	21.6	4.0	7	20.8	42.0	17.3	51.0	25.0	22

* These fittings are supplied with Nylon seal.



Only items priced in current price list are carried in stock. Dimensions shown may be changed at any time without prior notice.

Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

Slow Start Flow Control Valves

Principle
Designed for mounting on either the FRL or power valve, Parker Prestostart slow start function fittings permit the gradual increase in pressure to a section of the pneumatic system. This prevents shocks to the system that may occur when full system pressure is introduced thus reducing wear and potential damage to components.

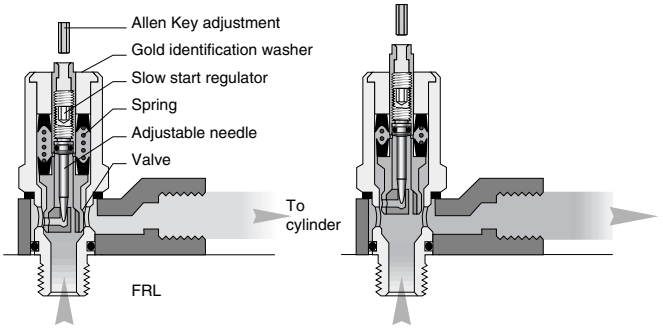
Operation
- Mounted on outlet port of FRL to control downstream installation.
- Initial flow through the bolt is controlled by a restrictor and adjustable needle valve.
- When 2/3rd system pressure is achieved the spring is compressed allowing immediate increase to full system pressure.
- When the system is pressurized after an emergency stop all cylinders will return to the position they were in before the system air was vented.

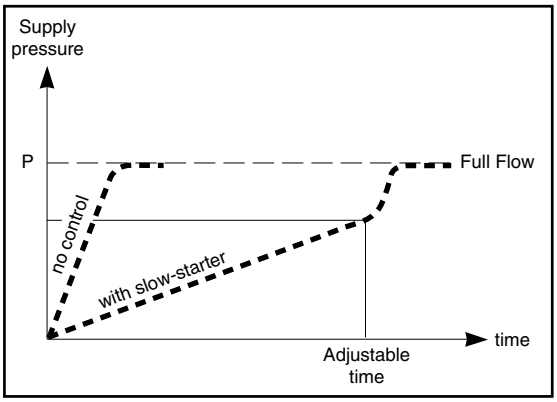
Pressurization speed
Adjustment of the needle valve to regulate the air flow controls the time taken to pressurize the system.

Advantages
- Simplified cabling
- Compact installation
- Reduces wear and damage

Valve Specifications
Maximum Working Pressure: 145 PSI
Operating Temperature: +5° - +150° F
Body Material: Brass nickel plated
Bolt Material:Brass nickel plated

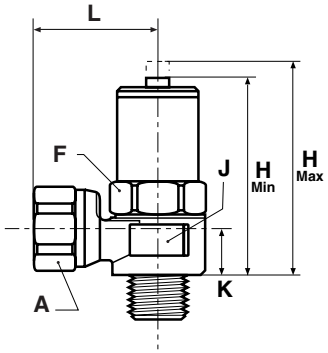
Soft start operation/Full flow

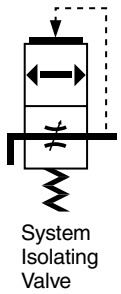




FC902 Slow Start with Threaded Connection

PART NO.	NPT TREADS	H MAX.	H MIN.	F	A	J	L	K
FC902-4	1/4	2.44	2.17	7/8	3/4	.95	1.22	.55
FC902-6	3/8	2.44	2.17	7/8	3/4	.95	1.22	.55





Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

Prestostart
Pneumatic slow start fittings

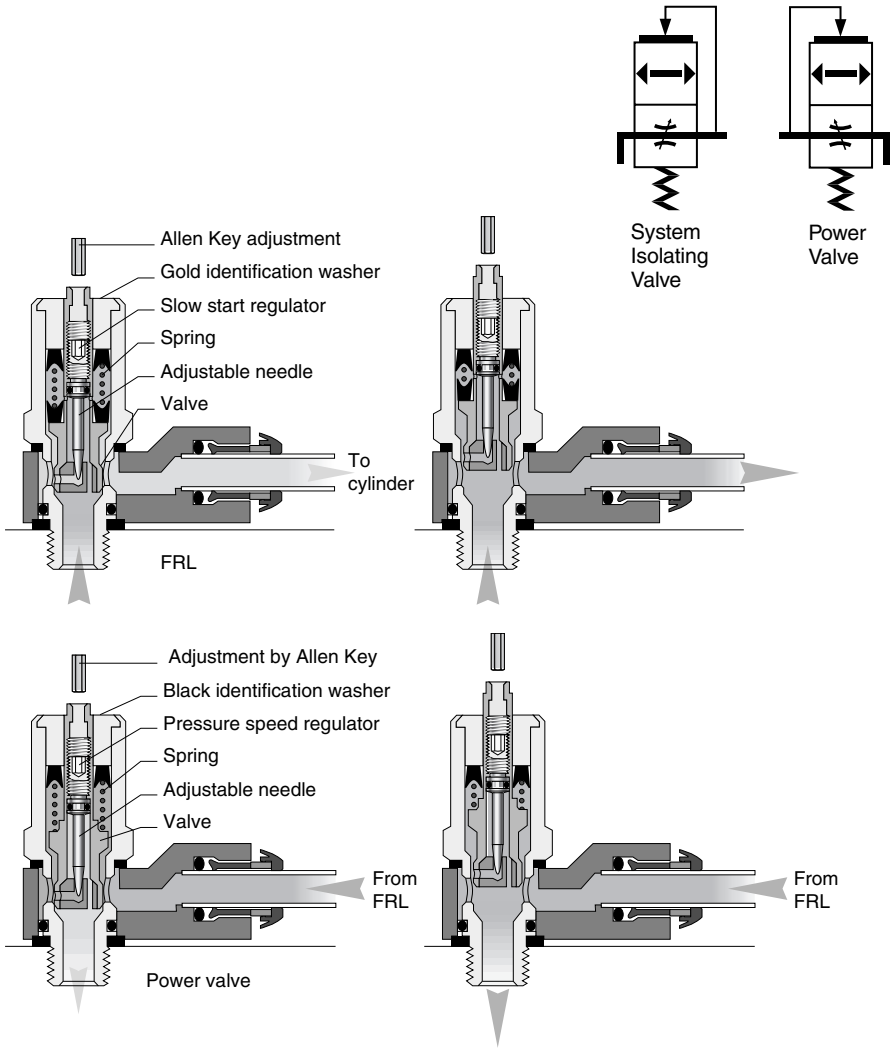
Principle
Designed for mounting on either the FRL or power valve, Parker Prestostart slow start function fittings permit the gradual increase in pressure to a section of the pneumatic system. This prevents shocks to the system that may occur when full system pressure is introduced thus reducing wear and potential damage to components.

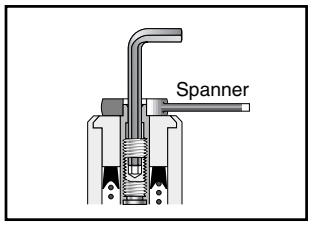
PIV Series
- Mounted on outlet port of FRL to control downstream installation.
- Initial flow through the bolt is controlled by a restrictor and adjustable needle valve.
- When 2/3 of the system pressure is achieved the spring is compressed allowing immediate increase to full system pressure.
- When the system is pressurized after an emergency stop all cylinders will return to the rest position.

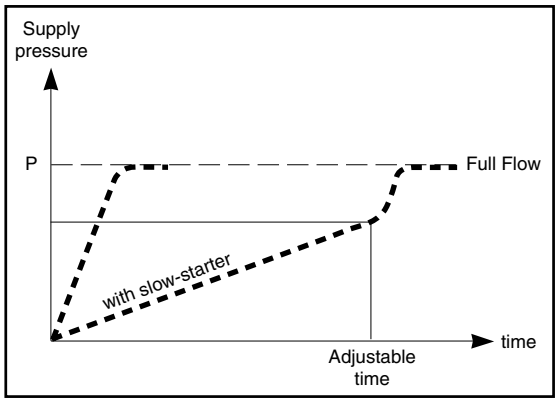
PCV Series
- Mounted on the supply port of the power valve or on the common supply of associated power valves.
- Initial flow into the power valve is controlled by the needle valve assembly.
- When 2/3 of the system pressure is achieved the spring is compressed allowing immediate increase to full system pressure.
- When the system is pressurized after an emergency stop all cylinders will return to the rest position.

Pressurization speed
Adjustment of the needle valve to regulate the air flow controls the time taken to pressurize the system.

Adjustment
- Use a spanner to prevent the bolt assembly turning.
- Use an Allen key to adjust the needle valve. Maximum torque 1N/m.







Technical features

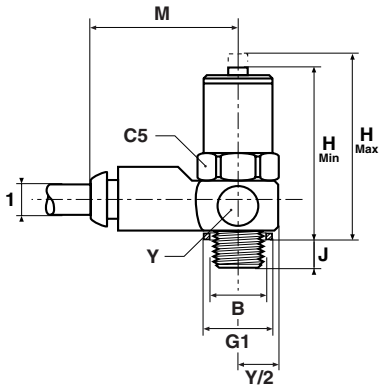
BODY MATERIAL		BOLT ASSEMBLY MATERIAL	BOLT THREAD	SEALING DEVICE	TERMINATORS		WORKING TEMP.	WORKING PRESSURE
PUSH-IN VERSION	THREAD VERSION							
High Resistance Polyamide	Brass Nickel Plated	Brass Nickel Plated	1/4 BSPP 3/8 BSPP 1/2 BSPP	Nylon Washer	8 to 12 mm Push-In	1/4 to 1/2 BSPP Female Thread	From 0° to +140° F	100 PSI

Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

C

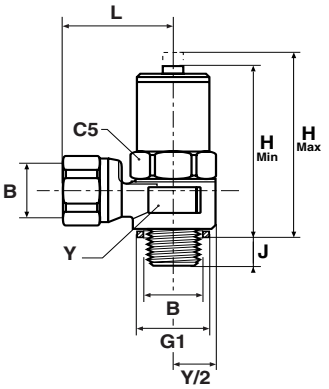
PCV4PK Slow Start Fitting Power Valve Version with Push-In Connection

PART NO.	1	B	C5	G1	H MIN.	H MAX.	J	M	Y	TORQUE MDAN	AIR FLOW NL/MN AT 87 PSI	KV
PCV4PK8-1/4	8	1/4	17	17.5	54	61	9	35.0	20	1.3	1500	0.80
PCV4PK10-1/4†	10	1/4	22	19.5	55	62	9	41.5	25	1.3	2000	1.15
PCV4PK10-3/8†	10	3/8	22	21.0	55	62	10	41.5	25	1.5	2000	1.15



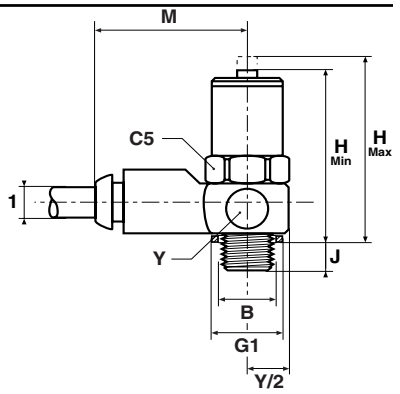
PCV4 Slow Start Fitting Power Valve Version with Threaded Connection

PART NO.	B	C5	G1	H MIN.	H MAX.	J	L	Y	TORQUE MDAN	AIR FLOW NL/MN AT 87 PSI	KV
PCV4-1/4†	1/4	22	19.5	55	62	9	31	24	1.3	2000	1.15
PCV4-3/8	3/8	22	21.0	55	62	10	31	24	1.5	2000	1.15



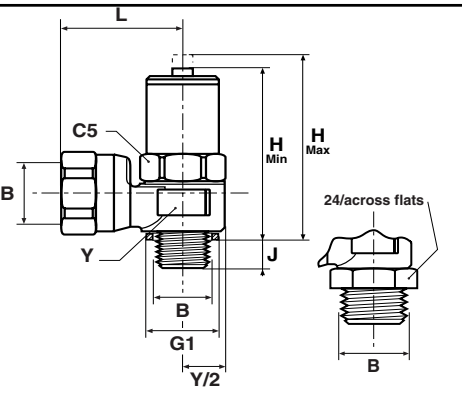
PIV4PK Slow Start Fitting System Isolating Valve Version with Push-In Connection

PART NO.	1	B	C5	G1	H MIN.	H MAX.	J	M	Y	TORQUE MDAN	AIR FLOW NL/MN AT 87 PSI	KV
PIV4PK8-1/4	8	1/4	17	17.5	54.0	61.0	9	27.5	20	1.3	1500	0.8
PIV4PK10-1/4†	10	1/4	22	19.5	55.0	62.0	9	41.5	25	1.3	2100	1.2
PIV4PK10-3/8†	10	3/8	22	21.0	55.0	62.0	10	41.5	25	1.5	2200	1.3
PIV4PK12-3/8†	12	3/8	22	21.0	55.0	62.0	10	46.5	25	1.5	3100	1.0
PIV4PK12-1/2†	12	1/2	22	25.5	63.5	70.5	10	46.5	25	1.8	3100	1.0



PIV4 Slow Start Fitting System Isolating Valve Version with Threaded Connection

PART NO.	B	C5	G1	H MIN.	H MAX.	J	L	Y	TORQUE MDAN	AIR FLOW NL/MN AT 87 PSI	KV
PIV4-1/4†	1/4	22	19.5	54.0	62.0	9	31.0	24	1.3	2100	1.2
PIV4-3/8†	3/8	22	21.0	55.0	62.0	10	31.0	24	1.5	3100	1.0
PIV4-1/2	1/2	24	25.5	63.5	70.5	10	34.5	24	1.8	3100	1.0



Specific to 1/2 size

†Indicates non-standard part.
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Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

Flow Control Blocking Valves

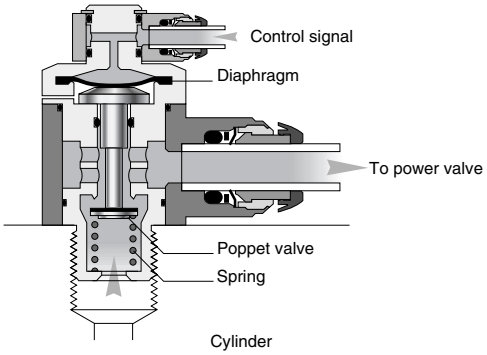
Principle
Prestobloc pilot-operated blocking fittings are designed for mounting directly to the cylinder ports. Available with push-in or threaded terminations, these function fittings permit safe and immediate stopping of the piston rod by blocking the cylinder supply and exhaust.

Operation
- Pilot operated diaphragm maintains full flow when pilot signal is present.
- Spring closes the poppet valve locking air in the cylinder when the pilot signal is removed.
- Prestobloc fittings used in conjunction with Prestoflow flow regulators are mounted on inlet and outlet ports.
- Pilot signal should be independent from the control valve.

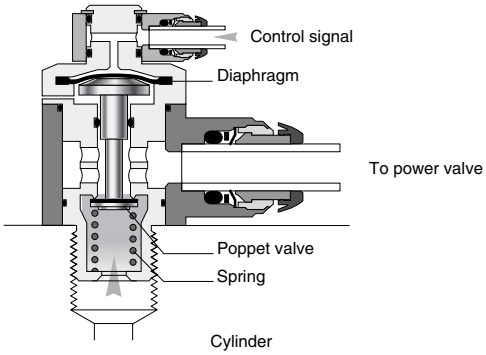
Advantages
- Compact
- Direct mounting
- Safety
- Independent control

Valve Specifications
Maximum Working Pressure: 145 PSI
Operating Temperature: +5°- +150° F
Body Material: Zinc alloy epoxy coated
Bolt Material: Brass

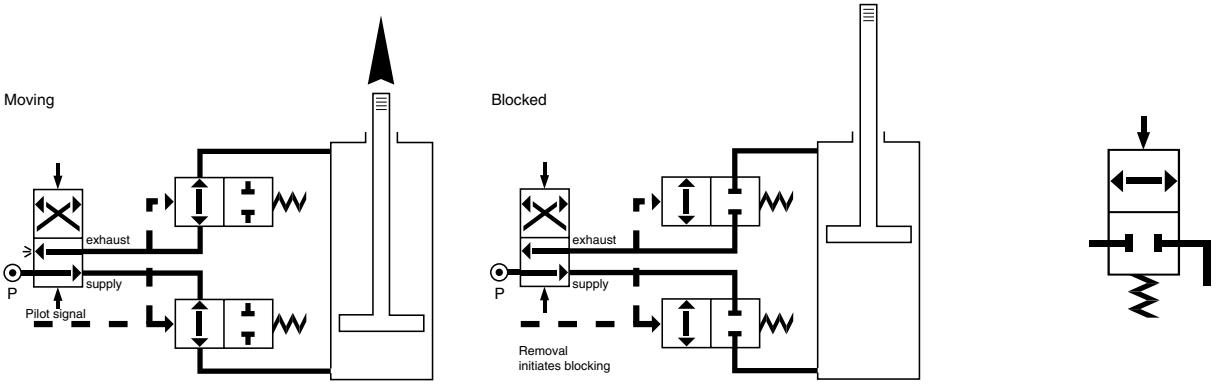
With control signal



Without control signal



Blocking principle



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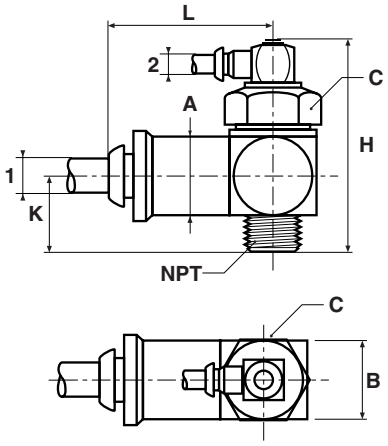
Parker Brass Products Division
Otsego, Michigan

C

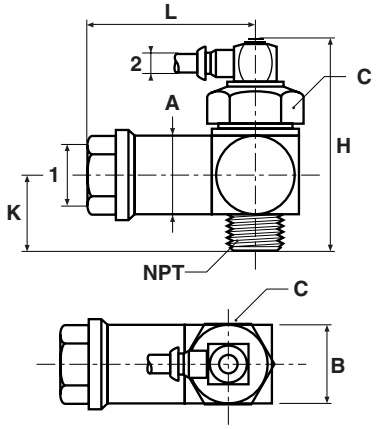
FC601 Blocker with Push-In Connection

PART NO.	TUBE 1	TUBE 2	NPT	FLOW	A	B	C	K	H	L
FC601-4-2	1/4	5/32	1/8	14.80	.86	.82	.94	.53	2.32	1.54
FC601-4-4	1/4	5/32	1/4	19.40	.86	.82	.94	.53	2.09	1.54
FC601-6-6	3/8	5/32	3/8	49.90	1.06	1.10	.94	.55	2.09	1.98
FC601-8-8	1/2	5/32	1/2	81.20	1.22	1.22	1.30	.94	2.59	2.59



FC602 Blocker with Threaded Connection

PART NO.	FEMALE THREAD 1	TUBE 2	FLOW	A	B	C	K	H	L	NPT
FC602-2	1/8	5/32	14.80	.86	.82	.94	.53	2.32	1.71	1/8
FC602-4	1/4	10-32	19.40	.86	.82	.94	.53	2.09	1.71	1/4
FC602-6	3/8	10-32	49.90	1.06	1.10	.94	.55	2.09	2.18	3/8
FC602-8	1/2	10-32	81.20	1.22	1.30	1.30	.94	2.59	2.47	1/2



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Parker Brass Products Division
Otsego, Michigan

C

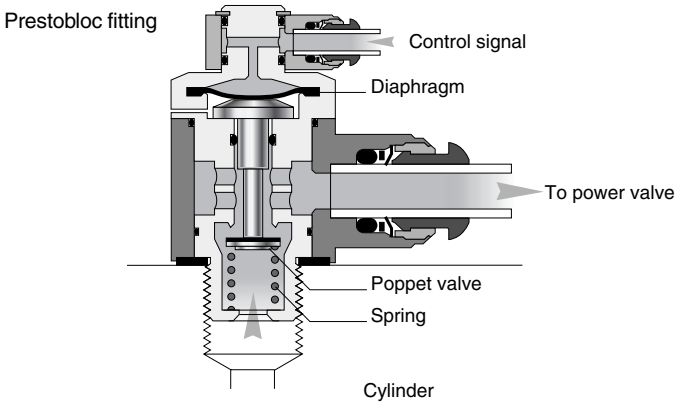
Prestobloc - Pilot-operated blocking fittings

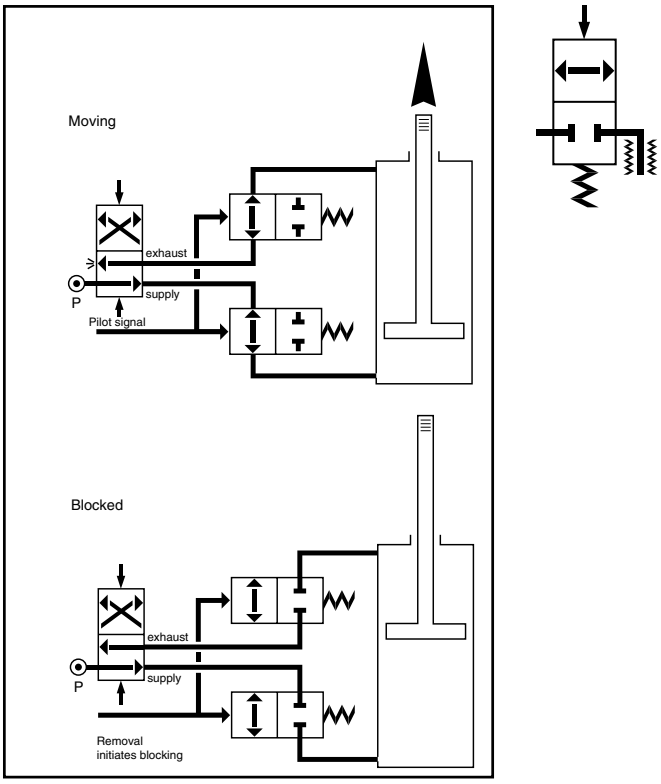
Principle

Prestobloc pilot-operated blocking fittings are designed for mounting directly to the cylinder ports. Available with push-in or threaded terminations, these function fittings permit safe and immediate stopping of the piston rod by blocking the cylinder supply and exhaust.

Operation

- Pilot operated diaphragm maintains full flow when pilot signal is present.
- Spring closes the poppet valve locking air in the cylinder when the pilot signal is removed.
- Prestobloc fittings used in conjunction with Prestoflow flow regulators are mounted on inlet and outlet ports.
- Pilot signal should be independent from the control valve.



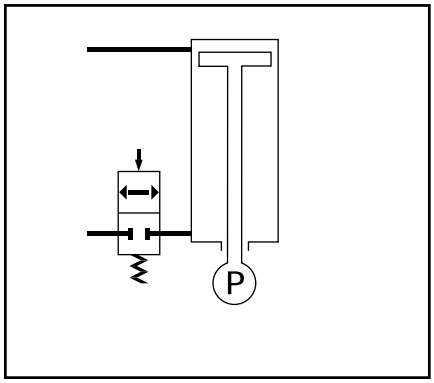


Blocking principle

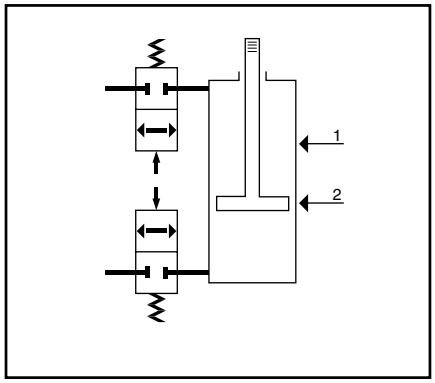
Technical features

BODY MATERIAL	BOLT MATERIAL	BOLT THREAD	SEALING DEVICE	TERMINATIONS		PILOT TERMINATION	WORKING TEMPERATURE	WORKING PRESSURE
Zinc Alloy Epoxy Coated	Brass	1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	Nylon Washer	6 mm - 12 mm Push-In	1/4 - 1/2 BSPP Female Thread	4 mm - 8 mm Push-In	From 0° to +150° F	140 PSI

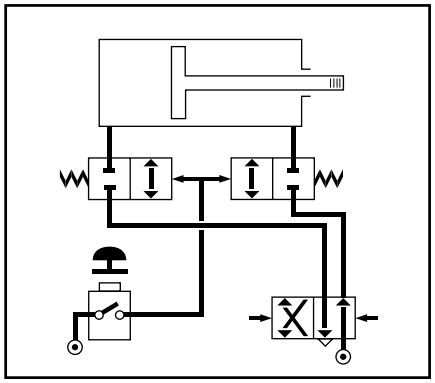
Applications



Safety stop
Prevents descent under load in the event of power failure



Stroke control
Stops the piston in various positions for conveying and handling applications.



Safety locks
Safety guards for assembly and punch presses. Combination with an emergency switch: restarting the cylinder after resetting the emergency switch.

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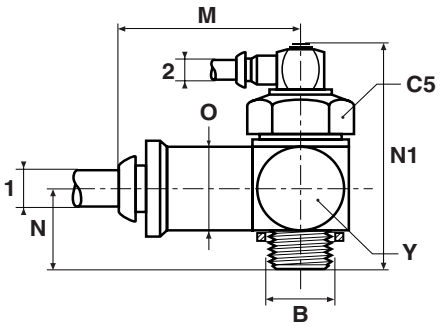
Parker Brass Products Division
Otsego, Michigan

C

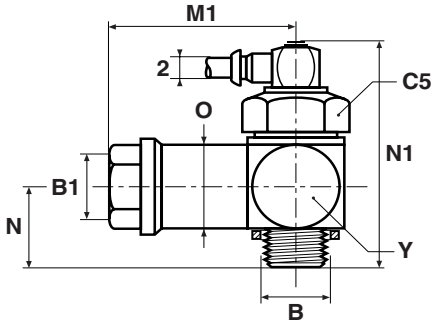
PWB-A- Blocker with Push-In Connection

OLD PART NO.	NEW PART NO.	1	B	2	C5	M	N	N1	O	Y
PBV4PB6-1/8	PWB-A1468	6	1/8	4	24	39	20	59	20	22
PBV4PB6-1/4	PWB-A1469	6	1/4	4	24	39	22	61	22	24
PBV4PB8-1/4	PWB-A1489	8	1/4	4	24	39	22	61	22	24
PBV4PB8-3/8	PWB-A1483	8	3/8	4	27	50	25	64	27	24
PBV4PB10-3/8	PWB-A1493	10	3/8	4	27	50	25	64	27	24
PBV4PB12-1/2	PWB-A1412	12	1/2	4	27	66	36	78	31	33



PWB-A- Blocker with Threaded Connection

OLD PART NO.	NEW PART NO.	B	B1	2	C5	M1	N	N1	O	Y
PBV4-1/8-1/4	PWB-A1898	1/8	1/4	4	24	44	20	59	20	24
PBV4-1/4	PWB-A1899	1/4	1/4	4	24	44	22	61	22	24
PBV4-3/8	PWB-A1833	3/8	3/8	4	27	56	25	64	27	24
PBV4-1/2	PWB-A1822	1/2	1/2	4	27	63	36	78	31	33



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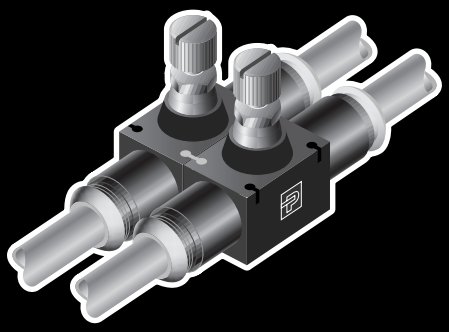


In-Line Flow Control Valves

General Information

It is sometimes impossible to mount a flow control directly on the port of the cylinder, either due to lack of space or because of the need for remote adjustment of the flow control. To resolve this problem in-line flow controls are designed to mount on the piping between the directional valve and the cylinder or can be mounted on the control panel next to other control units.

Designed to be versatile

Parker In-Line Flow Controls are unidirectional flow control valves. Intake air flows freely through the flow control; exhaust air is metered out through a specially designed adjustment screw. An arrow on the body of the valve indicates the direction of controlled flow. Since it is a tube to tube connection, our in-line flow controls may be installed as a meter in or a meter out device.

Parker in-line flow controls can be easily added to existing circuitry. Simply splice it into the cylinder port line. In-line flow controls may be used individually or, they may be stacked together using two joining clips, supplied standard with each valve. Panel mounting is accomplished by using the through holes in the molded body.

Adjustment characteristics

Control is achieved through a finely threaded special adjustment screw. The special shaped adjustment screw produces a more linear flow control than ordinary tapered screws. With the use of a locking nut, the in-line flow control may be secured in its final setting. Settings are maintained even under adverse conditions such as vibration. A captive adjustment screw prevents loss or dangerous blow out.

Full flow in both directions

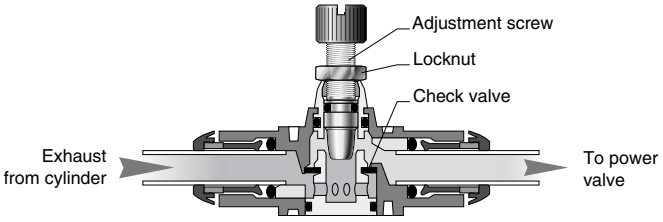
Intake capacity is always slightly greater than the full open exhaust capacity, enabling maximum variation of speeds between outward and return strokes.

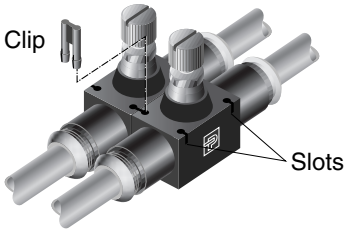
Advantages

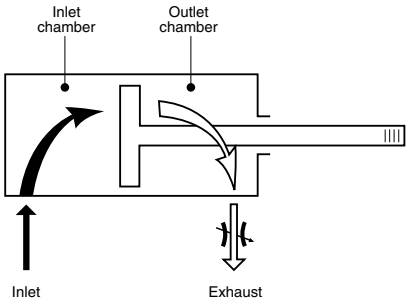
- Assembly in banks
- Panel mounting
- Allows other function fittings to be mounted on a cylinder
- Space saving
- Weight saving
- Flexibility

Valve Specifications

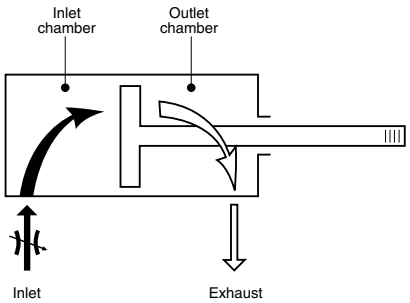
Maximum Working pressure: 145 PSI
Operating Temperature: +5° - +150° F
Body material: High resistance polyamide
Adjustment screw material: Brass







Flow regulation on the exhaust port



Flow regulation on the inlet port

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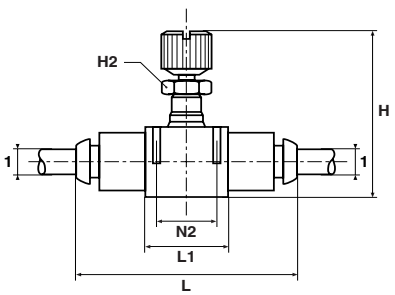
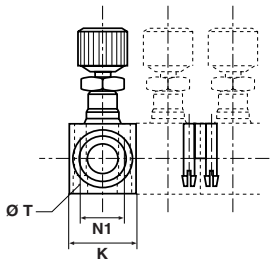
FC800 - In-Line Flow Control with Push-in Connection

PART NO.	1 ØD	H MIN.	H MAX.	L	L1	K	N1	N2	T	ORIFICE	H2 (MM)
FC800-5/32	5/32	1.15	1.31	1.52	.59	.47	.31	.43	.09	.12	5
FC800-4	1/4	1.54	1.74	2.11	.90	.66	.43	.66	.12	.16	8
FC800-6	3/8	2.03	2.38	2.96	1.29	.94	.62	1.01	.16	.31	14
FC800-8	1/2	2.24	2.63	3.35	1.37	1.09	.78	1.07	.16	.39	14

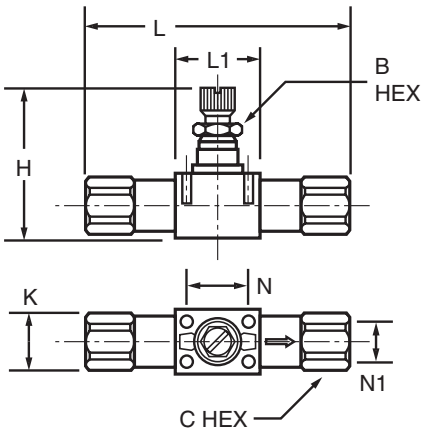




Supplied with 2 clips

Threaded In-Line Flow Control FC806

PART NO.	THREAD SIZE	B HEX (MM)	C HEX (MM)	H CLOSED	H OPEN	L	L1	K	N	N1
FC806-2	1/8	13	8	1.56	1.75	2.70	.91	.67	.67	.43
FC806-4	1/4	16	11	1.73	1.97	3.27	1.02	.73	.79	.49
FC806-6	3/8	22	14	2.05	2.40	3.82	1.30	.94	1.02	.63
FC806-8	1/2	24	14	2.26	2.66	4.76	1.38	1.10	1.08	.79



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Parker Brass Products Division
Otsego, Michigan

Prestoflow - Flow regulator - In-line series

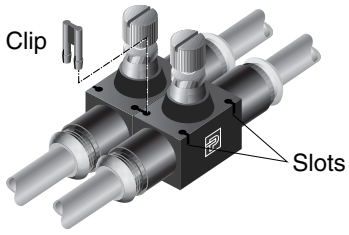
Principle

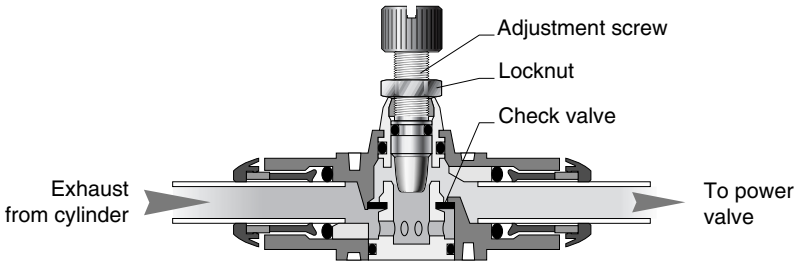
Prestoflow unidirection in-line flow regulators are designed to be used directly in the compressed air line when cylinder access is difficult or where another function fitting is already connected to the cylinder port. The fine thread knurled adjuster provides precise control of piston rod speed. When the desired flow has been set the adjusting bolt can be locked in position.

- A check valve blocks the full flow ports in the exhaust direction.
- The flow is controlled by a needle valve fitted in the regulator body.
- These regulators can be :
  - mounted using the 4 fixing holes
  - assembled into banks using the joining clips included.

Flow adjustment

Flow control is adjusted with a screwdriver or manually with the knurled nut. When the desired flow is set the adjusting screw can be locked using the locking nut. The large number of turns from fully closed to fully open allows for precise flow control.



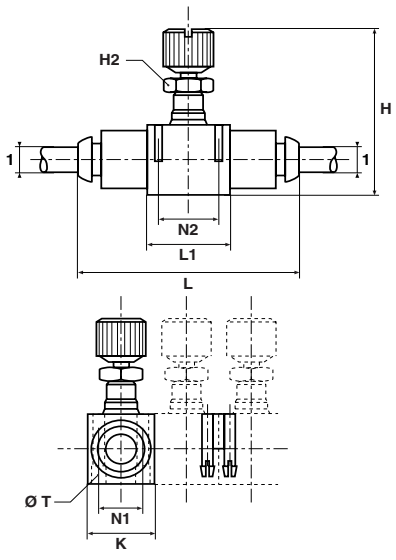


Technical features

BODY MATERIAL	CARTRIDE MATERIAL	ADJUSTMENT AND LOCKING NUT		TERMINATIONS	WORKING TEMPERATURE	WORKING PRESSURE
High Resistance Polyamide	Brass	Standard Adjustment Brass	Ultrafine Adjustment Duralumin	4 mm - 12 mm Push-In	From 0° to +150° F	140 PSI

PTFIPK Flow Regulator with Push-In Connection

PART NO.	1	H MIN.	H MAX.	H2	K	L	L1	N1	N2	T
PTFIPK4	4	29.5	33.5	5	12.0	39.0	15	8.0	11.0	2.2
PTFIPK6	6	39.5	44.5	8	17.0	55.0	23	11.0	17.0	3.2
PTFIPK8	8	44.0	50.0	11	18.5	61.5	26	12.5	20.0	3.2
PTFIPK10	10	52.0	61.0	14	24.0	77.0	33	16.0	26.0	4.2
PTFIPK12	12	57.5	67.5	14	28.0	87.0	35	20.0	27.5	4.2



Supplied with 2 clips

Only items priced in current price list are carried in stock. Dimensions shown may be changed at any time without prior notice.

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Otsego, Michigan

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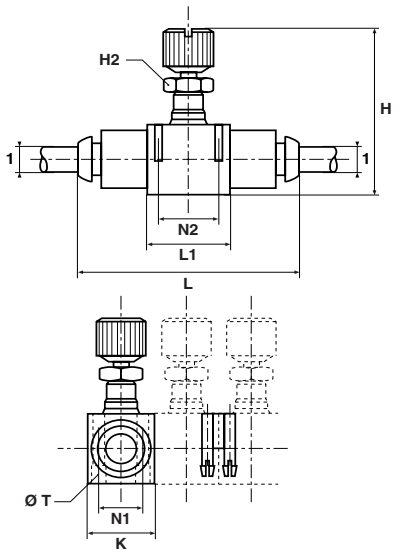
PTFMIPK Flow regulator with Push-In Connection Ultrafine Adjustment

PART NO.	1	H MIN.	H MAX.	K	L	L1	N1	N2	T
PTFMIPK4	4	34	37.0	12	39	15	8	11	2.2
PTFMIPK6	6	42	45.5	17	54	23	11	17	3.2

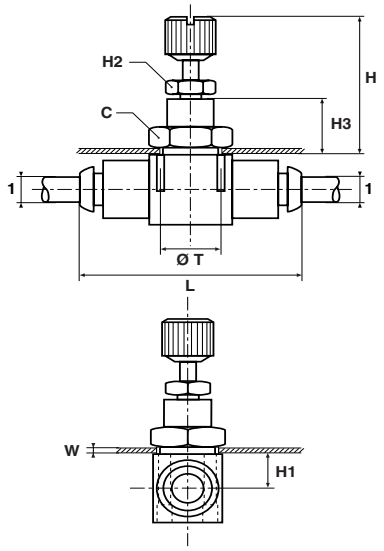


Supplied with 2 clips

PTFIWPK Flow Regulator with Push-In Connection Panel Mountable

PART NO.	1	C	H MIN.	H MAX.	H1	H2	H3	L	T	W MAX.
PTFIWPK4*	4	14	21.5	25.5	6.5	-	11.0	39.0	10.5	6
PTFIWPK6*	6	19	27.5	32.5	7.5	-	13.5	54.0	16.5	7
PTFIWPK8	8	24	28.5	34.5	9.0	11	13.5	60.5	18.5	7
PTFIWPK10†	10	30	29.5	38.5	11.5	14	13.5	76.0	24.5	7
PTFIWPK12†	12	32	32.0	42.0	12.5	14	15.5	86.0	27.5	8

* Ultrafine adjustment



†Indicates non-standard part.
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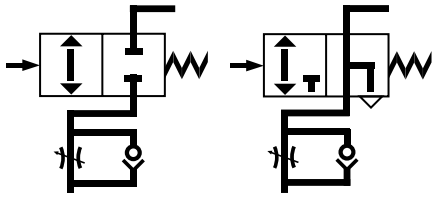
Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

Prestotwin - Combined flow - blocking - unloading valves

Principle

Prestotwin are multi-function fittings combining flow control and blocking or flow control and unloading. This avoids the requirement for two function fittings offering a compact solution with significant space saving. They meet the requirements for a safety fitting and incorporate the facility to accurately control the piston rod speed.



Speed control and blocker

Speed control and unloader

C

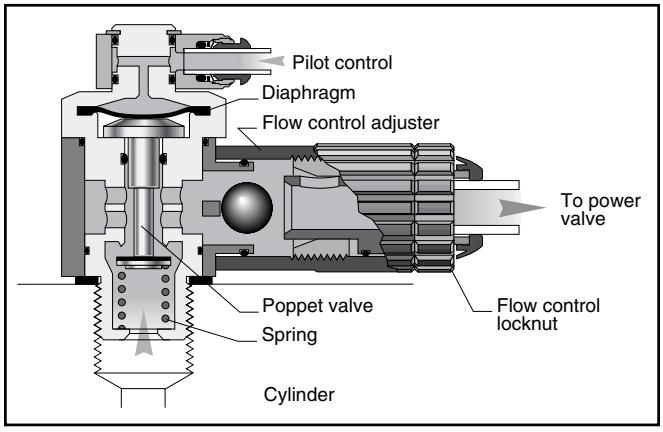
Operation

PBVF4PK Flow regulator + blocker

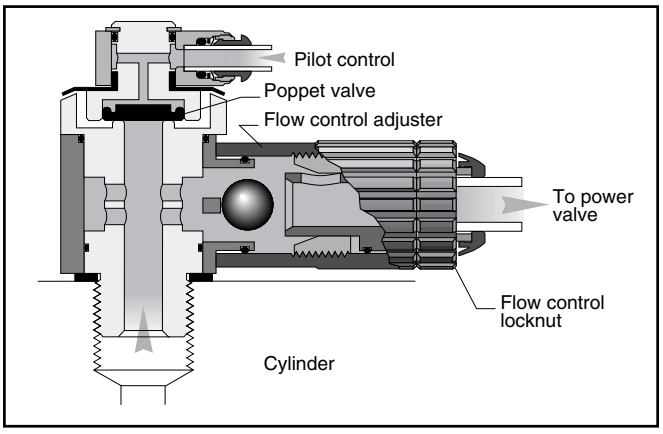
- The pilot signal acting on the diaphragm keeps the poppet valve open. When the pilot signal is removed the spring closes the poppet valve.
- Flow control is obtained by the adjustment of the rotating barrel against a ball bearing.
- The flow control locknut ensures the optimum setting is maintained.

PSPF4PK Flow regulator + unloader

- The pilot signal operating on the poppet valve keeps it closed. When the pilot signal is removed the cylinder air exhausts through the vent.
- Flow control is obtained by the adjustment of the rotating barrel against a ball bearing.
- The flow control locknut ensures the optimum setting is maintained.



Combined flow control and blocker



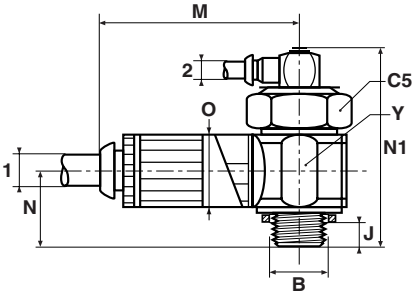
Combined flow control and unloader

Technical features

BODY MATERIAL	BOLT MATERIAL	BOLT THREAD	SEALING DEVICE	PILOT TERMINATION	FLOW CONTROL ADJUSTMENT	FLOW CONTROL LOCKING	WORKING TEMP.	WORKING PRESSURE
Zinc Alloy Epoxy Coated	Brass	1/8 BSPP 1/4 BSPP	Nylon Washer	4 mm - 8 mm Push-In	Rotating Barrel	Knurled Locknut	From 0° to +140° F	140 PSI

PWR-HB- Flow Regulator + Blocker with Push-In Connection

PART NO.	1	B	2	C5	J	M	N	N1	O	Y
PWR-HB1448	4	1/8	4	24	8	47	21.5	67	22.5	21
PWR-HB1468	6	1/8	4	24	8	47	21.5	67	22.5	21
PWR-HB1469	6	1/4	4	24	10	47	23.5	69	22.5	21
PWR-HB1489	8	1/4	4	24	10	47	23.5	69	22.5	21
PWR-HB1483	8	3/8	4	27	11	60	29.0	73	29.0	28
PWR-HB1493	10	3/8	4	27	11	60	29.0	73	29.0	28



Parker Hannifin Corporation
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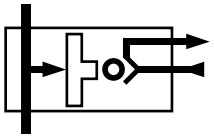
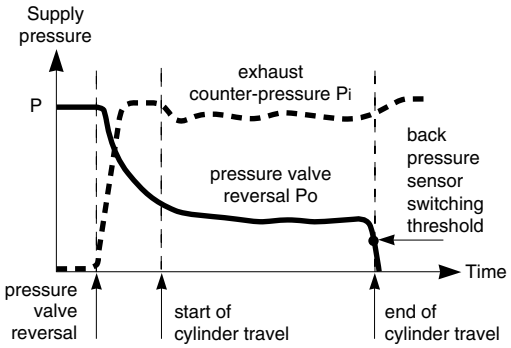
Otsego, Michigan

Prestosensor
Pressure sensor fittings



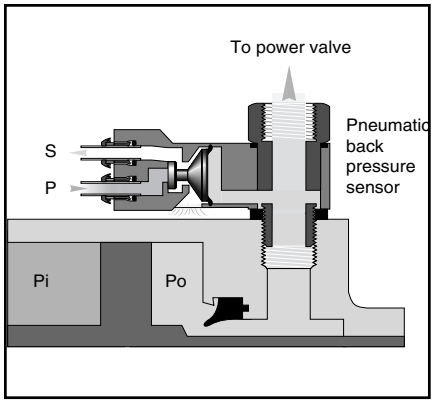
Principle

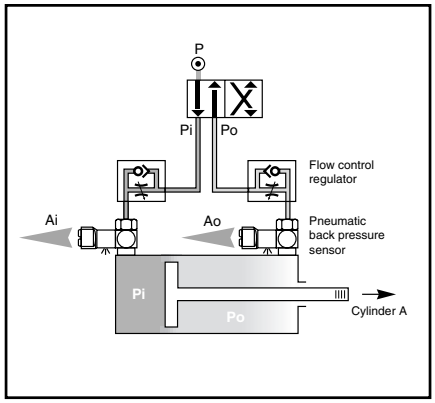
Prestosensor fittings are designed for direct mounting onto the cylinder. These sensors detect end of stroke travel by the variation in internal operating pressure. The sensing can be pneumatic, electric or electronic to suit the application. These fittings remove the need for mechanical position switches.



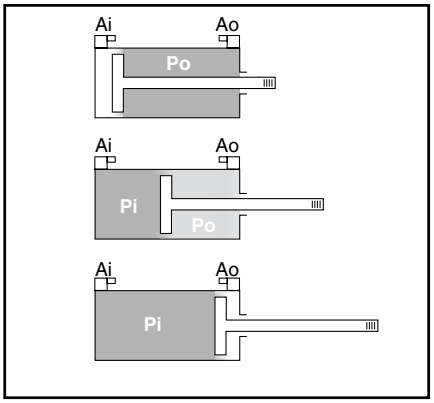
Operation

- Mounting to cylinder port
- Pressure sensors should be mounted in conjunction with flow regulators
- Pressure sensing on diaphragm valve.





Mounting of pressure sensors



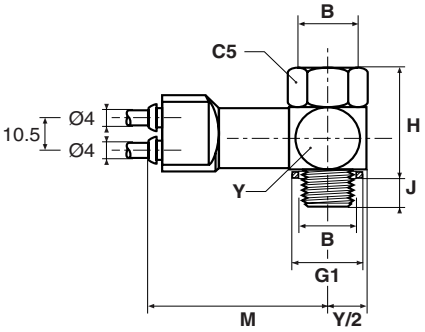
Signals from pressure sensors

Technical features

BODY MATERIAL		BOLT MATERIAL	BOLT THREAD	SEALING DEVICE	TERMINATORS			WORKING TEMP.	WORKING PRESSURE
PNEUMATIC OUTPUT VERSION	ELECTRIC AND ELECTRONIC VERSION				PNEUMATIC OUTPUT VERSION	ELECTRIC OUTPUT VERSION	ELECTRONIC OUTPUT VERSION		
Zinc Alloy and Thermoplastic	Thermoplastic	M5 Bichromate steel 1/8 to 1/2 BSPP: Brass	M5 1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	Nylon Washer	4 mm Push-In or M5 Female Thread	3 Core Cable 0.5 mm² 2 Meters Long	3 Core Cable 0.1 mm² 2 Meters Long	From 0° to +140° F	100 PSI

PTP4/8PB Pressure Sensor Pneumatic Output with Push-In Connection

PART NO.	B	C5	G1	H	J	M	Y
PTP8PB4M5	M5	8	3.5	16	8.0	43.5	11.0
PTP4PB4-1/8	1/8	14	6.0	23	14.0	45.0	16.0
PTP4PB4-1/4	1/4	17	7.0	28	17.5	47.0	19.5
PTP4PB4-3/8	3/8	22	8.0	29	21.0	49.5	23.5
PTP4PB4-1/2	1/2	27	10.0	30	25.5	53.5	31.5



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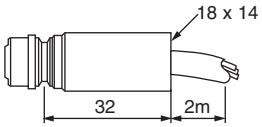
Otsego, Michigan

PWS-M -Plug-in Sensor-Electrical Output

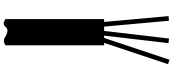
PART NO.	WEIGHT GRAMS	OUTPUT FUNCTION	OUTPUT CONNECTION	OUTPUT CHARACTERISTICS
PWS-M1012	0.08	Electrical ~ Ve = 3 A	3 wires 0.5 mm² long. 2 m	Contact OF 12 to 230 V ~ /10 VA 12 to 48 VCC/ 5W

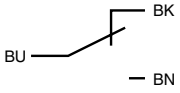


Level of Protection: IP40

Technical specification of model PWS-M : breaking pressure = 0.5 bar

connection :





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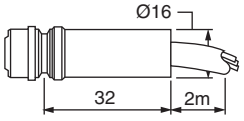
PWS-E-Plug-in Sensor-Electronic Output

PART NO.	WEIGHT GRAMS		OUTPUT FUNCTION	OUTPUT CONNECTION	OUTPUT CHARACTERISTICS
PWS-E101	0.07	Type NF	Electronical	3 wires	PNP
PWS-E111	0.07	Type NO		0.1 mm²	10/30 V CC
				long. 2 m	75 mA



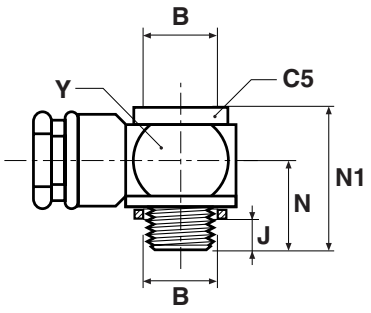
Level of Protection: IP67

Technical specification of model PWS-E : Pilot release pressure = 0.5 bar

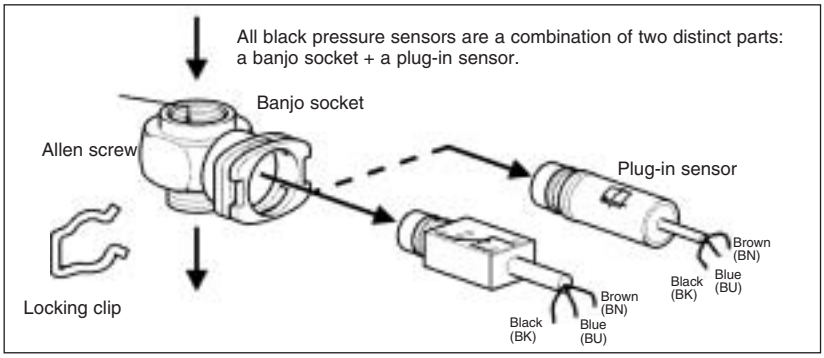
connection :

PWS-B-Banjo Socket (with sensor locking clip)

B	PART NO.	C5	J	N	N1	Y	WEIGNT GRAMS	TOOL REQUIRED
M5x0.8	PWS-B155	8	5	18	28	11	0.04	Flat spanner 8 mm
1/8	PWS-B188	6	8	18	28	16	0.04	Allen key 5 mm
1/4	PWS-B199	8	10	18	28	21	0.05	Allen key 8 mm
3/8	PWS-B133	10	11	22	32	28	0.07	Allen key 10 mm
1/2	PWS-B122	12	12	26	38	33	0.11	Allen key 12 mm



NEW PART NO.	OLD PART NO.
PWS-M1012 + PWS-B155	PTZ8M5
PWS-M1012 + PWS-B188	PTZ4-1/8
PWS-M1012 + PWS-B199	PTZ4-1/4
PWS-M1012 + PWS-B133	PTZ4-3/8
PWS-M1012 + PWS-B122	PTZ4-1/2
PWS-E101 + PWS-B155	PTE8M5
PWS-E101 + PWS-B188	PTE4-1/8
PWS-E101 + PWS-B199	PTE4-1/4
PWS-E101 + PWS-B133	PTE4-3/8
PWS-E101 + PWS-B122	PTE4-1/2
PWS-E111 + PWS-B155	PTE8M5C
PWS-E111 + PWS-B188	PTE4-1/8C
PWS-E111 + PWS-B199	PTE4-1/4C
PWS-E111 + PWS-B133	PTE4-3/8C
PWS-E111 + PWS-B122	PTE4-1/2C

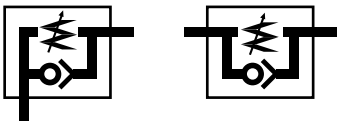


Only items priced in current price list are carried in stock. Dimensions shown may be changed at any time without prior notice.

Parker Hannifin Corporation
Parker Brass Products Division
Otsego, Michigan

C

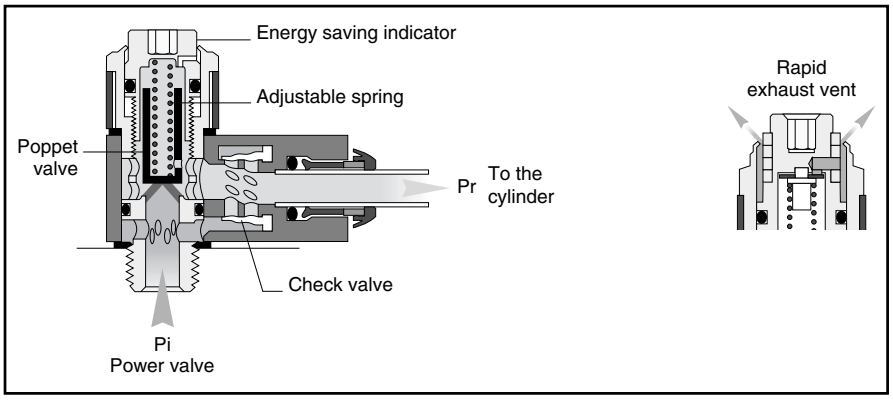
Prestoreduce
Pressure reduction fittings



Principle

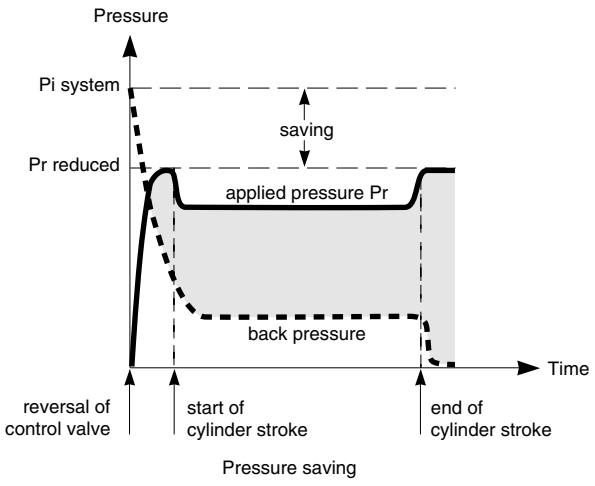
This function fitting is manually preset to provide the cylinder with optimum air pressure. This reduces the air consumption of the cylinder generating energy savings. This fitting is particularly suitable for cylinders used in cutting, pressing or gripping operations.

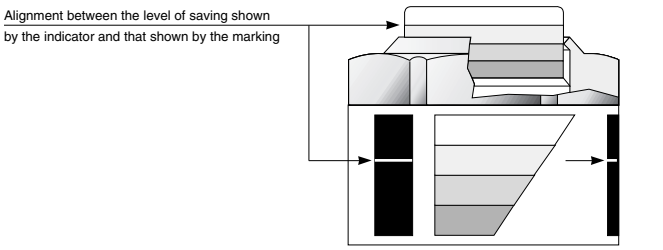
- System pressure (Pi) is reduced by a spring-loaded valve which can be calibrated by the set screw.
- The greater the reduction between inlet and outlet pressure the larger the energy savings.
- The coloured indicator shows the energy savings achieved.
- The purge vent allows rapid exhaust of air in emergencies.
- Adjustment can be made with an Allen key or manual ratchet control.
- An anti-tamper plug can be fitted after the pressure has been set.

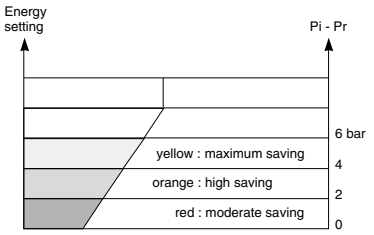


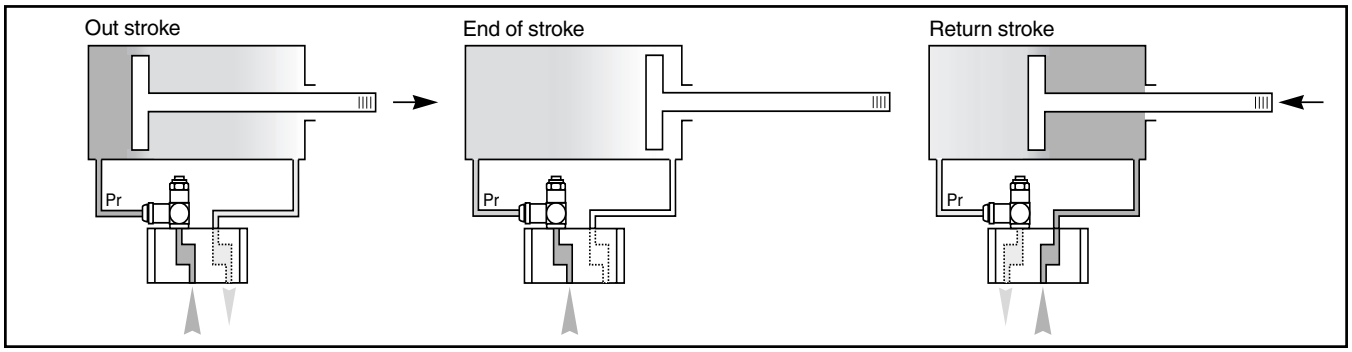
Technical features

BODY MATERIAL		BOLT ASSEMBLY MATERIAL	BOLT THREAD	SEALING DEVICE	TERMINATORS		WORKING TEMP.	WORKING PRESSURE
PUSH-IN VERSION	THREAD VERSION							
Zinc Alloy	Brass Nickel Plated	Brass	1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	Nylon Washer	6 to 10 mm Push-In	1/8 to 1/2 BSPP Female Thread	From 0° to +150° F	100 PSI









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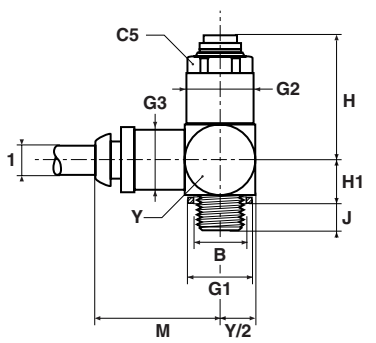
PRB4PB Pressure Reducer Banjo Version with Push-In Connection

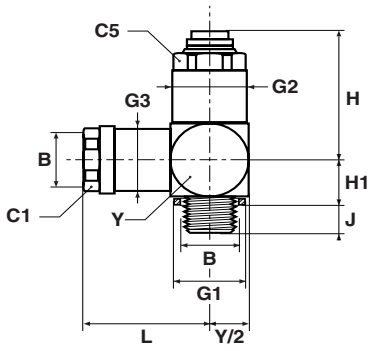
PART NO.	1	B	C5	G1	G2	G3	H MIN.	H MAX.	H1	J	M	Y
PRB4PB6-1/8	6	1/8	19	19.5	22	20	49	57	12	6	43	21
PRB4PB6-1/4	6	1/4	19	19.5	22	20	49	57	12	6	43	21
PRB4PB8-1/4	8	1/4	19	19.5	22	20	49	57	12	6	40	21
PRB4PB10-1/4†	10	1/4	27	26.0	28	26	55	64	15	6	50	28
PRB4PB10-3/8†	10	3/8	27	26.0	28	26	55	64	15	8	50	28



C

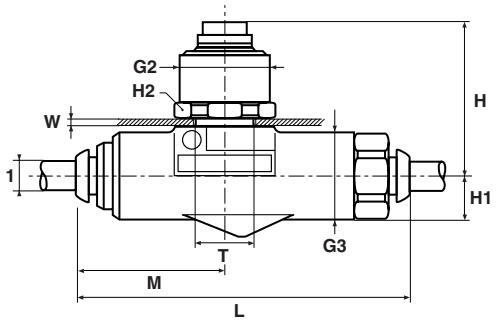
PRB4 Pressure Reducer Banjo Version with Threaded Connection

PART NO.	B	C1	C5	G1	G2	G3	H MIN.	H MAX.	H1	J	L	Y
PRB4-1/8†	1/8	19	19	19.5	22	20	49	57	12	6	45	21
PRB4-1/4	1/4	19	19	19.5	22	20	49	57	12	6	45	21
PRB4-3/8	3/8	24	27	26.0	28	26	55	64	15	6	56	28
PRB4-1/2†	1/2	30	30	30.0	32	31	75	86	23	8	63	33



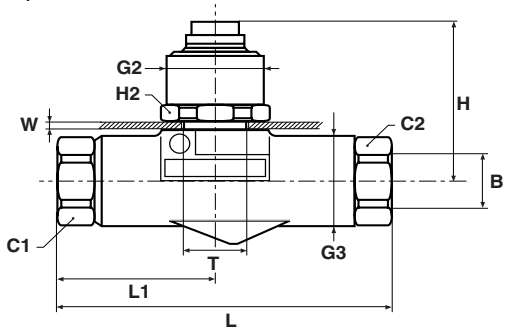
PRIPB Pressure Reducer In-Line Version with Push-In Connection

PART NO.	1	G2	G3	H MIN.	H MAX.	H1	H2	L	M	T MIN.	W MAX.
PRIPB6	6	11	21	49	57	14	22	75	32.5	18.5	4
PRIPB8	8	13	21	49	57	14	22	72	32.5	18.5	4
PRIPB10†	10	17	28	61	70	19	27	90	41.5	22.5	5



PRI4 Pressure Reducer In-Line Version with Threaded Connection

PART NO.	B	C1	C2	G2	G3	H MIN.	H MAX.	H1	H2	L	L1	T MIN.	W MAX.
PRI4-1/8	1/8	17	19	11	21	49	57	14	22	74	35	18.5	4
PRI4-1/4	1/4	17	19	13	21	49	57	14	22	83	44	18.5	4
PRI4-3/8	3/8	22	27	17	28	61	70	19	27	90	44	22.5	5
PRI4-1/2†	1/2	27	30	19	31	75	86	23	32	119	61	27.5	7



†Indicates non-standard part.
Only items priced in current price list are carried in stock. Dimensions shown may be changed at any time without prior notice.

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Prestosil - Silencer and flow control valve

Principle

Prestosil silencers are designed for mounting into the exhaust valve of single acting cylinders or on the directional control valve.

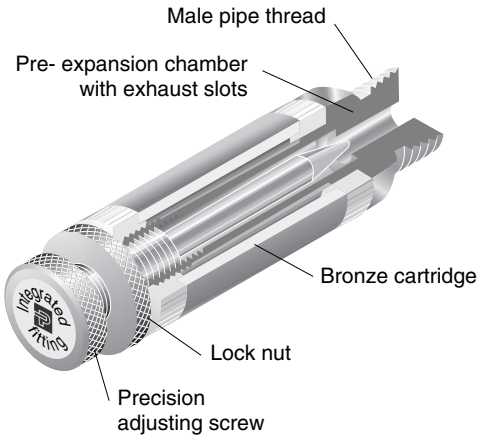
Operation

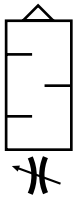
Noise reduction

The escaping air is pre-expanded in the chamber of the silencer. It then flows through a sintered bronze cartridge whose design provides a complete expansion of the exhaust air.

Flow control

The adjusting screw of the uni- direction flow control valve allows fine adjustment of the restriction and thus precise control of the piston-rod speed. The setting is secured by a lock nut.





Technical features

BODY MATERIAL	BOLT MATERIAL	NEEDLE VALVE MATERIAL	LOCKNUT MATERIAL	SILENCER THREAD	WORKING TEMPERATURE	WORKING PRESSURE
Aluminum	Bronze	Aluminum	Aluminum	1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	From 0° to +200° F	140 PSI

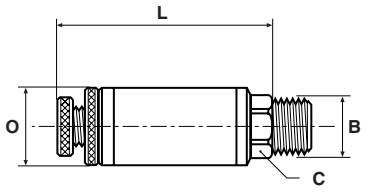
Noise reduction characteristics

At an average working pressure of 75 PSI the noise reduction achieved with the appropriate Prestosil model ranges from 22 to 37 dB.

PART NO.	WORKING PRESSURE						
	15 PSI	30 PSI	45 PSI	60 PSI	75 PSI	90 PSI	105 PSI
PRS 4-1/8	6	15	20	21	22	24	24
PRS 4-1/4	11	22	27	29	32	32	32
PRS 4-3/8	19	27	33	35	37	39	40
PRS 4-1/2	19	27	33	35	37	39	40

PRS Silencer and Flow Control Valve

PART NO.	B	C	L MIN.	L MAX.	O
PRS4-1/8	1/8	11	43	48	14
PRS4-1/4	1/4	14	60	68	17
PRS4-3/8	3/8	19	80	88	26
PRS4-1/2	1/2	22	83	91	26



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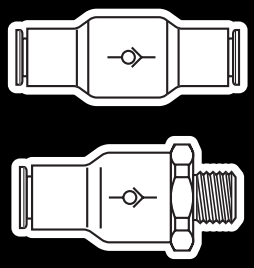

Non-Return Valves

General Information

Parker offers two styles of Non-Return valves, In-Line, tube to tube, and a threaded version with NPT male threads. Their extreme compactness and light weight make them suitable as a safety item in compressed air circuits.

The body of the fitting is marked with an arrow to indicate the direction of flow.

General Principle

Parker Non-Return Valves allow air to pass in one direction while blocking flow in the other direction. A pressure of more than 7 psi will overcome the spring pressure, which is keeping the valve closed, thus allowing the passage of air.

Valve Specifications

Maximum Working Pressure: 145 PSI
Operating Temperature: +30° to +160° F
Body Material: Nylon / Nickel-Plated Brass Body

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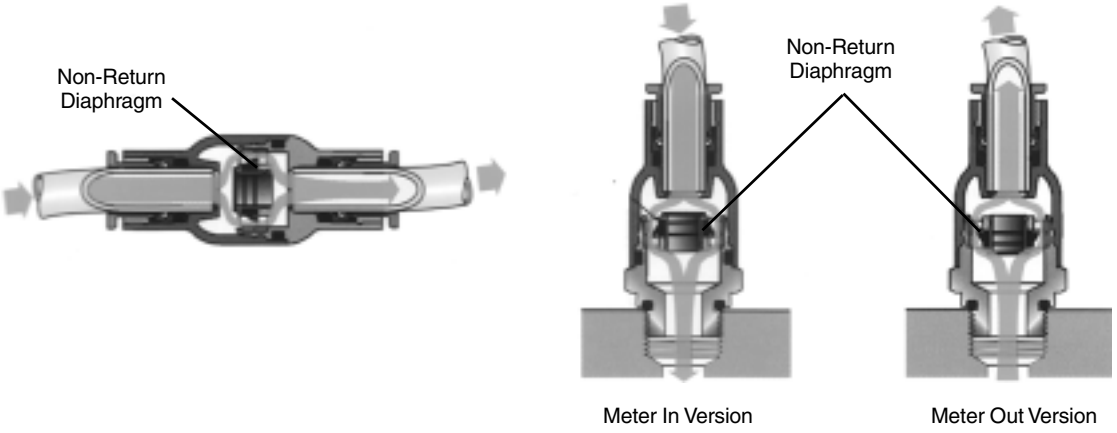
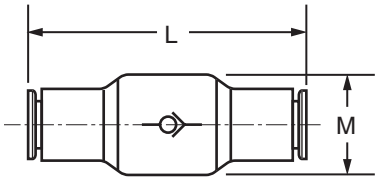
Non-Return Valves

Parker Non-Return Valves allow air to pass in one direction while blocking flow in the other direction. A pressure of more than 7 psi will overcome the spring pressure, which is keeping the valve closed, thus allowing the passage of air.



In-Line Non-Return Valve NRV800

PART NO.	TUBE SIZE	L	M
NRV800-5/32	5/32	1.52	.63
NRV800-4	1/4	1.61	.63
NRV800-5	5/16	2.03	.75
NRV800-6	3/8	2.50	.91



Male Thread Non-Return Valve NRV808

PART NO.	TUBE SIZE	THREAD SIZE	C HEX	L
NRV808-5/32-0	5/32	10-32	.35	1.26
NRV808-5/32-2	5/32	1/8	.63	1.12
NRV808-4-2	1/4	1/8	.75	1.42
NRV808-4-4	1/4	1/4	.75	1.42
NRV808-6-4	3/8	1/4	.91	1.65
NRV808-6-6	3/8	3/8	.91	1.65