



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Pneumatic ISO Cylinders

P1D-B Series

According to ISO 15552

Bulletin 0900-B7

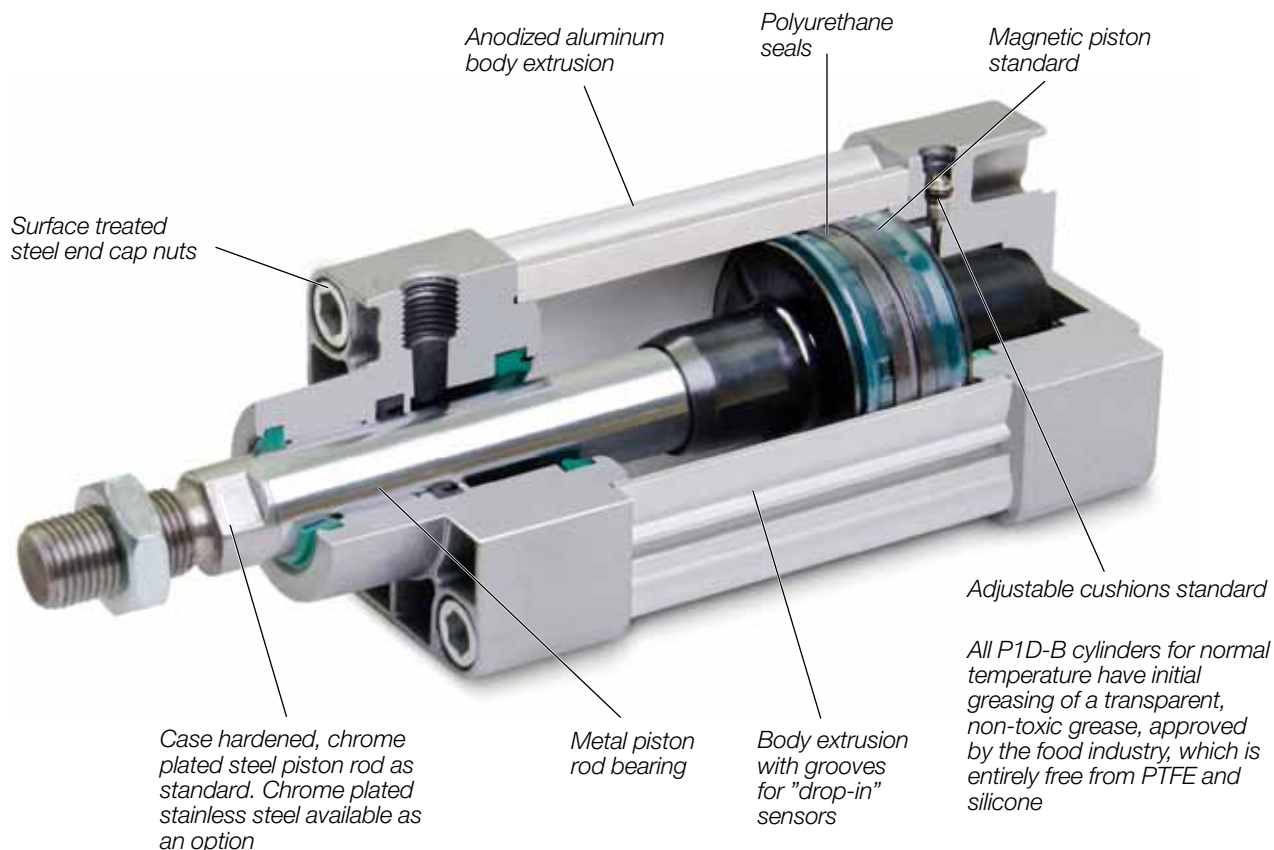


ENGINEERING YOUR SUCCESS.

P1D-B Pneumatic ISO Cylinders

Global Product Range

The P1D-B Series meets the specifications in the ISO 15552 standard. This means full interchangeability to any ISO 15552 cylinder anywhere around the globe. P1D-B will be available throughout the extensive worldwide Parker Hannifin organization.



Operating and Environmental Data

Operating medium

For best possible service life and trouble-free operation, dry, filtered compressed air to ISO 8573-1:2010 quality class 3.4.3 should be used.






This specifies a dew point of +3°C for indoor operation (a lower dew point should be selected for outdoor operation) and is in line with the air quality from most standard compressors with a standard filter.

Operating pressure	0.5 bar to 10 bar
Ambient temperature: Standard version	-20°C to +80°C
Pre-lubricated	Further lubrication is normally not necessary. If additional lubrication is introduced it must be continued.

P1D-B Pneumatic ISO Cylinders

The P1D-B series is a new addition to the Parker comprehensive line of ISO tie rod cylinders:

ISO Tie Rod Cylinder Families

 P1D-B	P1D-S	P1D-C	P1D Tie Rod
			
Cost effective solution for machine builders	Numerous options and customized designs upon request	Clean design for food and packaging	High force applications, available to 200mm bore
Cushions and magnetic piston are standard	Anodized end caps and cylinder tube	Anodized aluminum and stainless steel throughout	Tandem and duplex applications
Metal piston rod bearing	Cushions and magnetic piston are standard	IP67 End cover plugs	

Ordering Information

P1D	-	B	032	M	C	-	0500	N	N	N	N	N
------------	----------	----------	------------	----------	----------	----------	-------------	----------	----------	----------	----------	----------

Cylinder version

B	Basic
----------	-------

Bore size

032	32mm
040	40mm
050	50mm
063	63mm
080	80mm
100	100mm
125	125mm

Scraper function

M	Standard	Double acting
----------	----------	---------------

Stroke

Specify whole mm using 4 digits, i.e. 0500

Ports

-	BSPP
E	NPT

Piston rod material

C	Chrome plated carbon steel
R	Chrome plated Stainless steel

Seals

Standard	-20°C to +80°C
Standard	-20°C to +80°C

Rod end

N	Metric male
6	Metric female
3	Special*

* Please provide desired dimensions for KK, AM and WH or W. If otherwise, please provide dimensioned sketch.

Mounting style

Standard	
N	None (MX0)
1	Flange MF1 at head (front) end
B	Flange MF2 at cap (rear) end
2	Flanges MF1 and MF2 at both ends
F	Foot brackets MS1
C	Clevis bracket GA aluminum
E	Rear eye MP4 aluminum
S	Rear swivel eye MP6 aluminum
T	Clevis bracket MP2 aluminum
L	Rear eye + clevis (MP4 + MP2) aluminum
X	Clevis bracket MP2 + pivot hinge aluminum
Q	Clevis bracket GA aluminum + steel swivel hinge
M	Rear swivel eye + clevis bracket GA aluminum
G	Intermediate trunnion MT4 (requires XV dimension)
H	Trunnion flange at head (front) end
J	Trunnion flange at cap (rear) end

Rod mountings

N	None (piston rod nut only)
S	Swivel rod eye
T	Swivel rod eye SS
V	Swivel rod eye with clevis bracket GA
W	Swivel rod eye SS with clevis bracket GA
C	Clevis
D	Clevis SS
F	Flexco coupling
X	One additional piston rod nut
Y	Stainless steel piston rod nut
Z	Acid-resistant nut

The Parker 5-Year Extended Warranty

Parker Hannifin Corporation will extend its warranty on all pneumatic components to sixty (60) months providing they are correctly installed and protected by Parker pneumatic filters which are properly maintained. Components covered by this warranty include all cylinders, valves, and pneumatic automation components manufactured by Parker in any of our global facilities. This warranty covers our components anywhere in the world you may ship your equipment.

Parker's obligation under this warranty is limited to the replacement or repair of any failed components. The buyer understands that the seller will not be liable for any other costs or damages.

The buyers of quality Parker components and filters benefit by having ONE source for all pneumatic needs - Parker.



Yoon Chung
Yoon "Michael" Chung
President
Automation Group



Bulletin 0900-B7 7/2013



Parker Hannifin Corporation
Pneumatic Division
135 Quadral Drive
Wadsworth, OH 44281 USA
Tel: 330 336 3511
Fax: 330 334 3335

Applications Engineering
Phone: 877 321 4PDN
E-mail: pdnapps@parker.com
Customer Support
Phone: 877 321 4PDN
E-mail: pdncustsvc@parker.com
Web site: www.parker.com/pneumatics