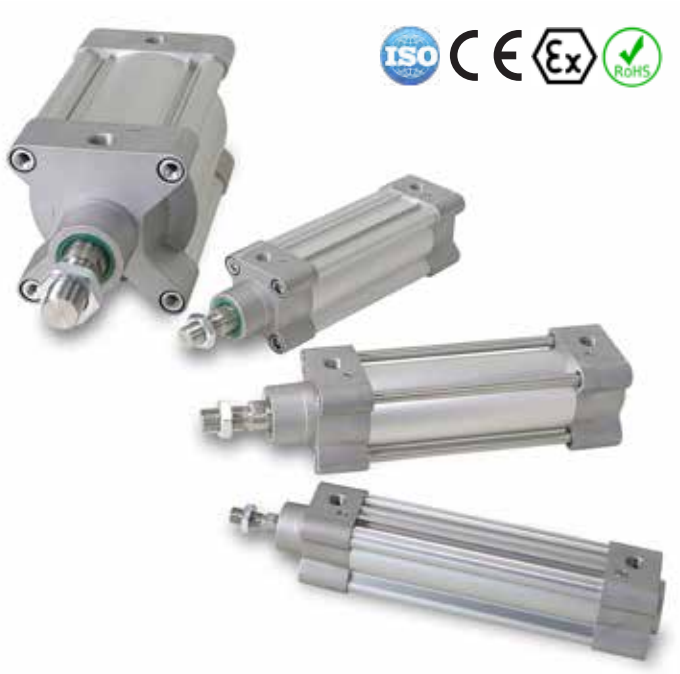
Standard Cylinders ISO 15552

Global product range

The P1F Series meets the specifications of the ISO 15552 standard. This means full interchangeability to any cylinder anywhere around the globe.
The P1F will be available throughout the extensive worldwide Parker Hannifin organisation – for the benefit to you and your customers.



Features

- Smooth profile or Tie-Rods design.
- Bore sizes 32 - 125 mm.
- Stroke up to 2500 mm.
- Corrosion resistant design.
- Stainless steel piston rod.
- Polyurethane seal technology.
- Stainless steel cushioning screws on same side.
- New adjustable pneumatic and mechanical cushioning system reduces noise.
- Full range of mountings.
- Full range of drop-in‘ sensors.

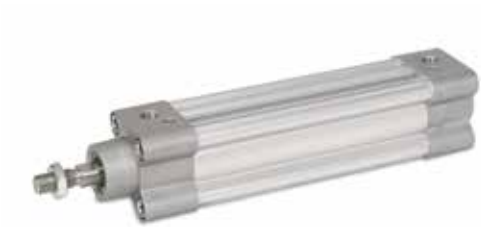
Design Variants

Smooth profile - P1F-S, P1F-K

The P1F in bore sizes Ø32 to Ø125 mm is a smooth profile designed cylinder with a magnetic piston used for standard temperature range from -20°C to +80°C. Utilising internal composite technology to save weight and reduce impact kinetic energy, while assuring the high performance and functionality expected for an ISO cylinder. Aluminium end covers, stainless steel piston rod guided with a PTFE coated steel bearing, pneumatic cushioning and polyurethane (PUR) seals as standard, this is our smooth profile industrial ISO cylinder.

Smooth profile - P1F-A

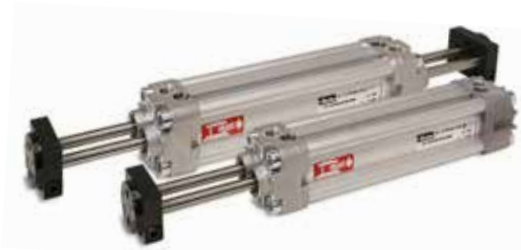
Similar to the smooth profile version but in an ATEX variant and a restricted temperature range from -20°C to +60°C. Average speed up to 0.5 m/s and max. frequency 1Hz.



CE Ex II 2GD Ex h IIC T4 T=120°C GDb –20°C≤Ta≤+60°C

Twin Rods smooth profile - P1F-R, P1F-Q

Similar to the smooth profile version but with Twin Rods for non-rotating applications like handling and packaging.



Tie-Rods round profile - P1F-T, P1F-N

Similar to the smooth profile version but in a Tie-Rods design for heavy duty applications. Round tube is made in anodised aluminium; Tie-Rods in stainless steel as a standard.
Bore sizes Ø32 to Ø125 mm.
Large bore sizes Ø160 to Ø320 mm, see catalogue PDE2667TCEN.

Order code

Order Instructions	P	1	F	-	S	0	3	2	M	S	-	0	1	6	0	-	0	0	0	0

Profile/cylinder design	
S	Smooth
A [1]	ATEX smooth
K	Smooth with through rod
L [2] [4]	Smooth with dynamic rod lock
H [2] [4]	Smooth with static rod lock
T	Tie-Rods
N	Tie-Rods with through rod
P [2]	Air reservoir

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

Temperature range	
M [1]	Standard Temperature -20° to +80°C
F [3]	High Temperature -10° to +150°C
L [3]	Low Temperature -40°C to +80°C
Q [4]	Metallic scraper -30°C to +80°C
V [5]	FKM rod seal -10°C to +80°C
D [5]	Polon rod seal -20°C to +80°C

Rod extension or trunnion mounting	
0000	without
P . . .	Piston rod extension in mm
G000	Trunnion mount +90° vs. air ports
7000	Trunnion mount +0° vs. air ports
H . . .	piston rod extension in mm with trunnion +90°
8 . . .	piston rod extension in mm with trunnion +0°

Cylinder stroke	
....	Stroke length in mm

Piston style	
-	Standard with magnet
F	Standard w/o magnet
X	Aluminium with magnet
A	Aluminium w/o magnet
Air reservoir	
-	without piston

Piston Rod material male thread	
S [1]	Stainless steel
C	Chrome plated carbon steel
R	Chrome plated stainless steel
Piston Rod material female thread	
E [1]	Stainless steel
F	Chrome plated carbon steel
G	Chrome plated stainless steel
Air reservoir	
A	without piston rod

[1] ATEX version is specified for standard temperature range -20°C to +60°C
[2] in standard temperature range -20°C to +80°C
[3] High and low temp option only with aluminium piston
[4] Only in combination with chrome plated piston rod material
[5] With anodised end covers, high polymer piston rod bushing
and stainless steel end covers screws and nut. Only for S and K cylinder design

Standard strokes for all P1F cylinders compliant to ISO 4393
(with the exception of stroke 40 mm)
Non standard strokes up to 2500 mm

Order code **Cylinder bore** (mm) **● = Standard stroke (mm)** **= Non standard stroke to special order**

	0025	0040	0050	0080	0100	0125	0160	0200	0250	0320	0400	0500	0600	0700	0800	2500	
P1F-S032MS -	●	●	●	●	●	●	●	●	●	●	●	●				//	**-0000**
P1F-S040MS -	●	●	●	●	●	●	●	●	●	●	●	●				//	**-0000**
P1F-S050MS -	●	●	●	●	●	●	●	●	●	●	●	●				//	**-0000**
P1F-S063MS -	●	●	●	●	●	●	●	●	●	●	●	●				//	**-0000**
P1F-S080MS -	●	●	●	●	●	●	●	●	●	●	●	●				//	**-0000**
P1F-S100MS -	●	●	●	●	●	●	●	●	●	●	●	●				//	**-0000**
P1F-S125MS -	●	●	●	●	●	●	●	●	●	●	●	●				//	**-0000**