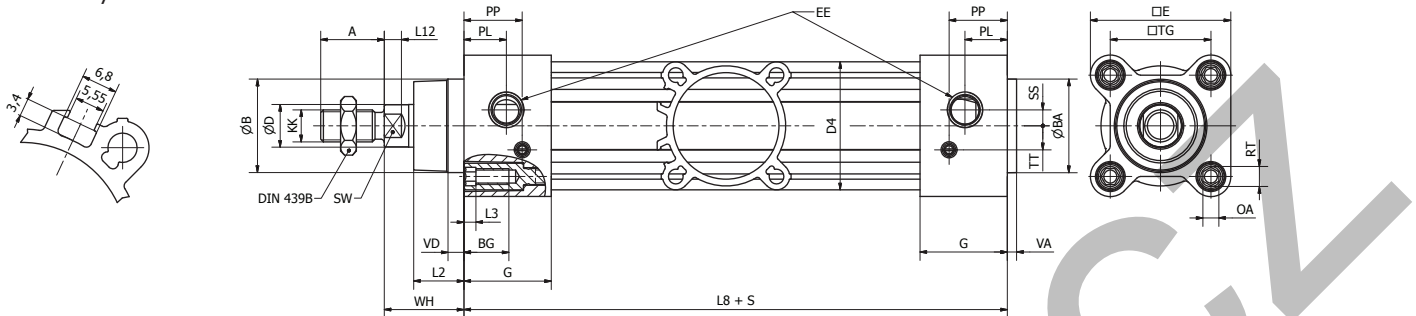


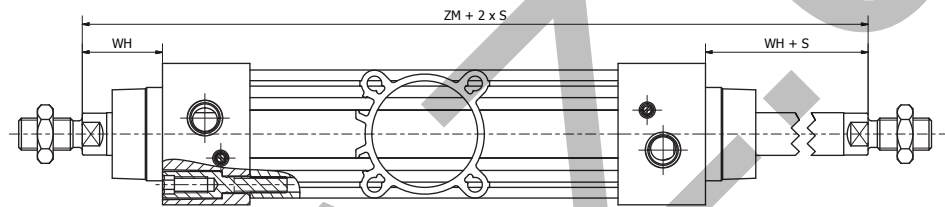
Dimensions

Smooth profile design

P1F-S / P1F-A

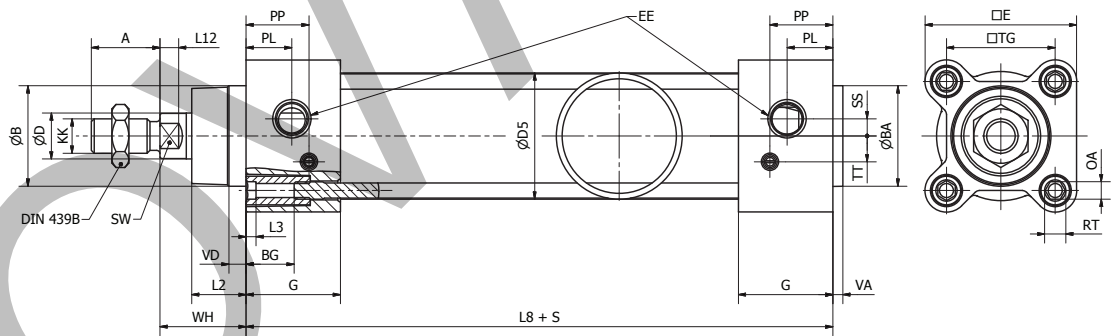


P1F-K

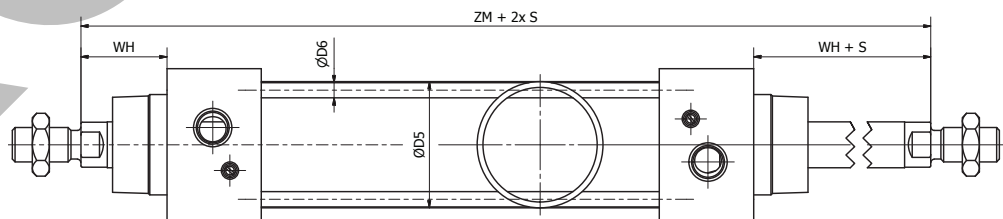


Tie-Rods with round profile design

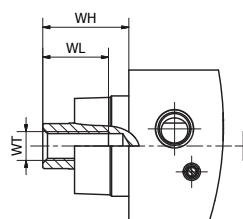
P1F-T



P1F-N



Female piston rod option



## Dimensions

### Dimensions [mm]

Cyl.-bore [mm]	A	ØB d11	ØBA d11	BG	ØD	D4	ØD5	ØD6	E	EE	G	KK	L2	L3	L8
Ø32	22	30	30	17	12	42.5	35	5.3	47	G1/8	28.4	M10x1.25	16.8	4.5	94
Ø40	24	35	35	17	16	48	43	5.3	53	G1/4	33	M12x1.25	19	4.5	105
Ø50	32	40	40	18	20	59.5	54	7.1	64.5	G1/4	33.4	M16x1.5	27.6	4.5	106
Ø63	32	45	45	18	20	69.5	67	7.1	75	G3/8	39.4	M16x1.5	24.3	4.5	121
Ø80	40	45	45	19.5	25	86	85	8.9	94	G3/8	39.4	M20x1.5	30.1	5.5	128
Ø100	40	55	55	19.5	25	103	105	8.9	111	G1/2	44.3	M20x1.5	34	5.5	138
Ø125	54	60	60	20	32	130	130	10.8	136	G1/2	50.8	M27x2	45	0	160

Cyl.-bore [mm]	L12	OA	PL	PP	RT	SS	SW	TG	TT	VA	VD	WH	WL	WT	ZM
Ø32	6	6	14	20	M6	5	10	32.5	6.5	3.6	6	26	21	M8x1	146
Ø40	6.5	6	16	22	M6	6	13	38	9	3.5	6	30	23	M10x1.25	165
Ø50	8	8	15.5	21.5	M8	6	17	46.5	9	3.6	6	37	31	M14x1.5	180
Ø63	8	8	18	28	M8	10	17	56.5	11	3.5	6	37	31	M14x1.5	195
Ø80	10	10	20	30	M10	11.5	22	72	14	3.5	6	46	39	M18x1.5	220
Ø100	10	10	18	33	M10	11.5	22	89	14	3.5	6	51	39	M18x1.5	240
Ø125	13	8	20	40	M12	0	27	110	22	5.5	9	65	53	M24x2	290

### Tolerances [mm]

Cyl.-bore [mm]	A	L8	TG	ZM	stroke tolerance		
					s ≤ 350 mm	350 mm < s ≤ 600 mm	s > 600 mm
Ø32	0 / - 0.5	± 0.3	± 0.4	-0.4 / + 2.2	+ 1.7	+ 1.9	+ 2.3
Ø40	0 / - 0.5	± 0.3	± 0.4	-0.4 / + 2.2	+ 1.7	+ 1.9	+ 2.3
Ø50	0 / - 0.5	± 0.4	± 0.4	-0.4 / + 2.2	+ 1.8	+ 2	+ 2.4
Ø63	0 / - 0.5	- 0.5 / + 0.3	± 0.4	-0.4 / + 2.2	+ 1.9	+ 2.1	+ 2.5
Ø80	0 / - 0.5	± 0.4	± 0.4	-0.4 / + 2.2	+ 1.9	+ 2.1	+ 2.5
Ø100	0 / - 0.5	± 0.5	± 0.4	-0 / + 2.5	+ 2.0	+ 2.2	+ 2.6
Ø125	0 / - 1.0	± 0.5	± 0.4	-0 / + 2.6	+ 2.1	+ 2.3	+ 2.7

# PDE3570TCEN

## Pneumatic Cylinders ISO 15552

### Order code

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

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

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

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

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

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

Cylinder stroke	
....	Stroke length in mm

Piston style	
-	Standard with magnet
<b>F</b>	Standard w/o magnet
<b>X*</b>	Aluminium with magnet
<b>A</b>	Aluminium w/o magnet

Air reservoir	
-	without piston

Piston Rod material male thread	
<b>S<sup>1)</sup></b>	Stainless steel
<b>C</b>	Chrome plated carbon steel
<b>R</b>	Chrome plated stainless steel

Piston Rod material female thread	
<b>E<sup>1)</sup></b>	Stainless steel
<b>F</b>	Chrome plated carbon steel
<b>G</b>	Chrome plated stainless steel

Air reservoir	
<b>A</b>	without piston rod

\* Note that for high temperature applications the magnetic field strength can be too low to ensure a reliable sensor function and therefore we cannot guarantee position detection.

### 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 order	Cylinder bore (mm)	0025	0040	0050	0080	0100	0125	0160	0200	0250	0320	0400	0500	0600	0700	0800	2500	
<b>P1F-S032MS - 32</b>		●	●	●	●	●	●	●	●	●	●	●	●					/// -0000
<b>P1F-S040MS - 40</b>		●	●	●	●	●	●	●	●	●	●	●	●					/// -0000
<b>P1F-S050MS - 50</b>		●	●	●	●	●	●	●	●	●	●	●	●					/// -0000
<b>P1F-S063MS - 63</b>		●	●	●	●	●	●	●	●	●	●	●	●					/// -0000
<b>P1F-S080MS - 80</b>		●	●	●	●	●	●	●	●	●	●	●	●					/// -0000
<b>P1F-S100MS - 100</b>		●	●	●	●	●	●	●	●	●	●	●	●					/// -0000
<b>P1F-S125MS - 125</b>		●	●	●	●	●	●	●	●	●	●	●	●					/// -0000