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Pneumatic cylinders

Profile cylinders series P1K

Catalogue PDE2577TCUK-ul. May 2009



ENGINEERING YOUR SUCCESS.

Features	Air cylinder	Hydraulic cylinder	Electro mechanical actuators
Overload safe	***	***	*
Easy to limit force	***	***	*
Easy to vary speed	***	***	*
Speed	***	**	**
Reliability	***	***	***
Robustness	***	***	*
Installation cost	***	*	**
Ease of service	***	**	*
Safety in damp environments	***	***	*
Safety in explosive atmospheres	***	***	*
Safety risk with electrical installations	***	***	*
Risk of oil leak	***	*	***
Clean, hygienic	***	**	*
Standardised measurements	***	***	*
Service life	***	***	*
Hydraulic system required	***	*	***
Weight	**	**	**
Purchase price	***	**	*
Power density	**	***	*
Noise level during operation	**	***	**
High force for size	**	***	*
Positioning possibilities	*	***	***
Total energy consumption	*	**	***
Service interval	*	**	***
Compressor capacity required	*	***	***

* = good, **=average, ***=excellent



Important

Before attempting any external or internal work on the cylinder or any connected components, make sure the cylinder is vented and disconnect the air supply in order to ensure isolation of the air supply.



Note

All technical data in this catalogue are typical data only.
Air quality is essential for maximum cylinder service life (see ISO 8573).



WARNING

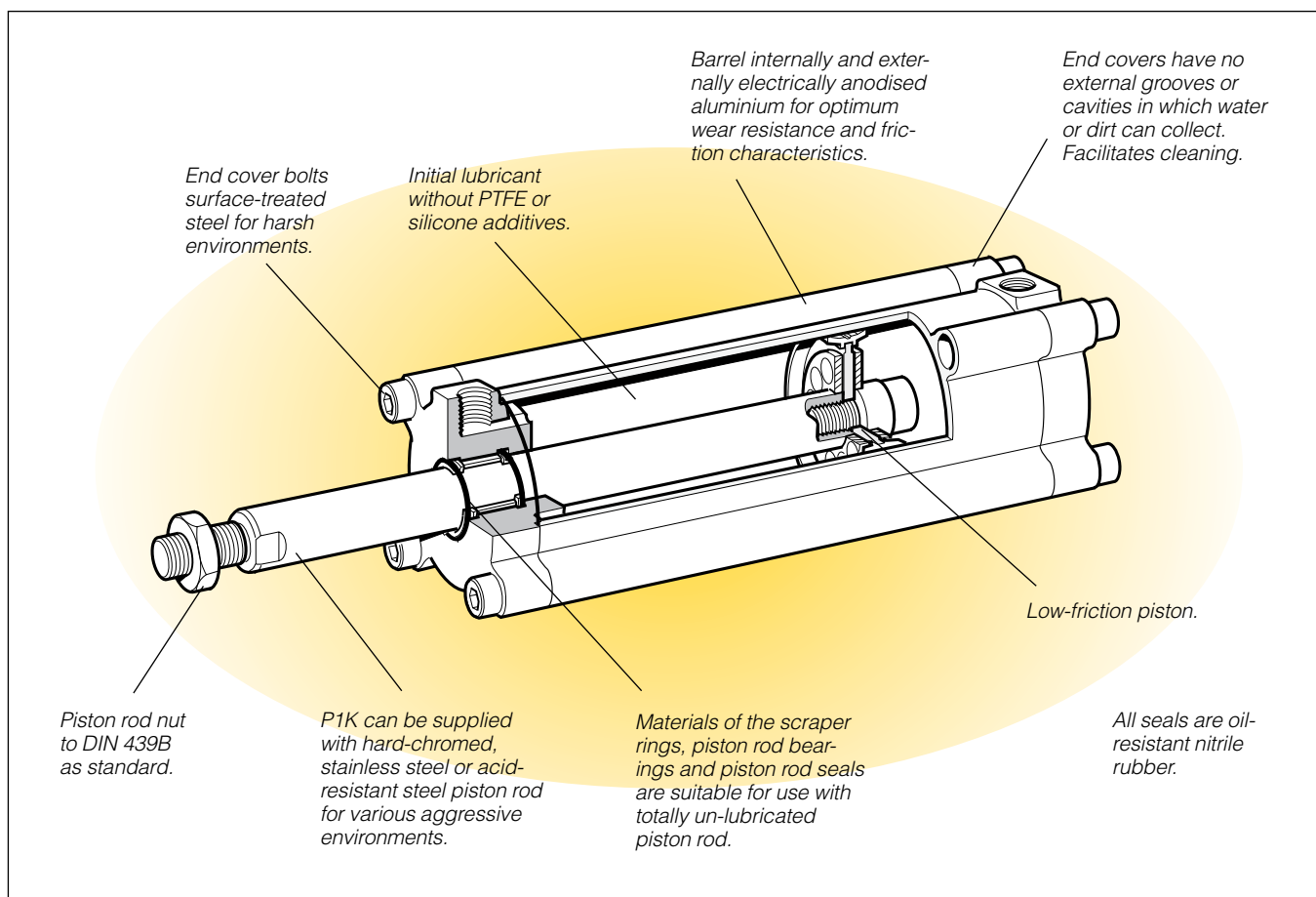
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P1K profile cylinders

The Parker P1K series cylinders are double acting with fixed end cushioning for light duty applications. The range is based upon the international ISO 6431 standard, but with considerably shorter overall length. They are available in bore sizes 32-125 mm with standard stroke lengths, 25-320 mm.

A complete range of mountings is available to suit the numerous application requirements, however, if required, the cylinders can be directly mounted using the existing end cover bolts.

The end plates and aluminium tube have the same profile, eliminating pockets or grooves where dirt could collect, the smooth clean surfaces meet strict hygienic requirements.

P1K cylinders are pre-lubricated during assembly and under normal operating conditions require no further lubrication. To ensure long life, particularly in applications where initial piston rod lubrication may be washed off, for example with detergents, the rod wiper and neck seal are manufactured from lubricant impregnated polythene.

The cylinder is available as a single-acting spring return version with strokes of 25 or 50 mm depending upon bore size.

A range of special cylinders to suit various applications can be produced from the basic P1K unit.

Clean design for foodstuffs applications

The clean design with end plates that precisely line up with the unique housing tube profile means that a lot of P1K cylinders are used in the foodstuffs industry. With a few adaptations, such as fully anodised end plate screws, the P1K is the perfect cylinder for cheesemaking equipment.

The fully anodised cylinders, with their hygienic, easily cleaned design, are installed vertically and press the whey out of the curds. This is an example of where the P1K offers decisive advantages for applications where hygiene and cleanliness are important requirements.

Cushioning

The P1K range of cylinders incorporate fixed end cushioning suitable for lighter duty applications. If used for high loads, provision should be made for external stops and damping. The high and low temperature versions are not available with cushioning.

Clean external design

The end plates of P1K cylinders have no recesses or cavities; this prevents retention of dirt or liquids and enables simple and effective cleaning.

Corrosion resistance

The selection of materials and surface treatments ensure that even standard versions of the P1K cylinder have good corrosion resistance and make them suitable for applications in demanding environments.

Dry Operation

The design of the cylinder makes it ideal for applications demanding hygiene and regular cleaning. Use of pre-lubricated materials together with the design of piston rod bearing, scraper and seal enable regular wiping/de-greasing of the piston rod without jeopardising the service life.

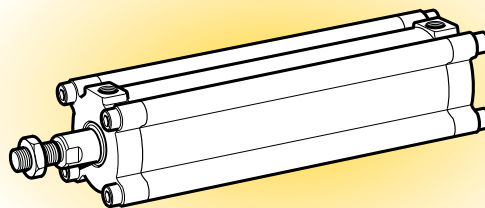
Mountings

A complete range of corrosion resistant mountings is available.

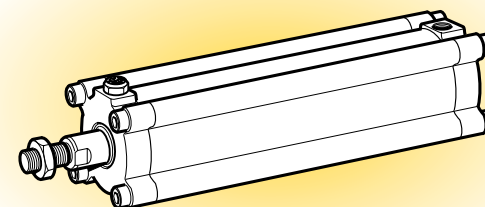
Options

In addition to the standard version, the P1K cylinder is available with various options depending upon the basic model selected.

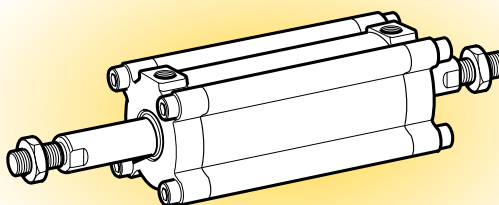
- Non standard stroke lengths
- Choice of piston rod materials
- Extended piston rods
- Through piston rod
- End cap screws in stainless steel
- Single acting



Double acting



Single acting



Double acting with through piston rods

Cylinder forces, double acting variants

Cyl. bore/ pist. rod mm	Stroke	Piston area cm ²	Max theoretical force in N (bar)									
			1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0	10,0
32/12	+	8,0	80	161	241	322	402	483	563	643	724	804
	-	6,9	69	138	207	276	346	415	484	553	622	691
40/16	+	12,6	126	251	377	503	628	754	880	1005	1131	1257
	-	10,6	106	212	318	424	530	636	742	848	954	1060
50/20	+	19,6	196	393	589	785	982	1178	1374	1571	1767	1963
	-	16,5	165	330	495	660	825	990	1155	1319	1484	1649
63/20	+	31,2	312	623	935	1247	1559	1870	2182	2494	2806	3117
	-	28,0	280	561	841	1121	1402	1682	1962	2242	2523	2803
80/25	+	50,3	503	1005	1508	2011	2513	3016	3519	4021	4524	5027
	-	45,4	454	907	1361	1814	2268	2721	3175	3629	4082	4536
100/32	+	78,5	785	1571	2356	3142	3927	4712	5498	6283	7069	7854
	-	70,5	705	1410	2115	2820	3525	4230	4935	5640	6345	7050
125/32	+	122,7	1227	2454	3682	4909	6136	7363	8590	9817	11045	12272
	-	114,7	1147	2294	3440	4587	5734	6881	8027	9174	10321	11468

+ = Outward stroke
- = Return stroke

Note!

Select a theoretical force 50-100% larger than the force required

Operation data

Working pressure	Max 10 bar	
Working temperature	min	max
Standard	-20 °C	+80 °C
High temp version	-10 °C	+150 °C
Low temp version	-40 °C	+40 °C

Greased for life, does not normally need additional lubrication. If extra lubrication is given, this must always be continued.

Working medium, air quality

Working medium Dry, filtered compressed air to ISO 8573-1 class 3.4.3.

Recommended air quality for cylinders

For best possible service life and trouble-free operation, ISO 8573-1 quality class 3.4.3 should be used. This means 5 µm filter (standard filter) dew point +3 °C for indoor operation (a lower dew point should be selected for outdoor operation) and oil concentration 1.0 mg oil/m³, which is what a standard compressor with a standard filter gives.

ISO 8573-1 quality classes

Quality class	Pollution		Water max. press. dew point (°C)	Oil max concentration (mg/m ³)
	particle size (µm)	max concentration (mg/m ³)		
1	0,1	0,1	-70	0,01
2	1	1	-40	0,1
3	5	5	-20	1,0
4	15	8	+3	5,0
5	40	10	+7	25
6	-	-	+10	-

**Important!**

When the cylinders are used in applications with heavy side loading on the piston rod, an outer guide must be used to ensure maximum service life.

Main data

Cylinder designation	Cylinder Piston rod					Total mass at 0 mm stroke length kg	Mass, moving parts				Air consumption litre	Port size G
	bore	area	diam.	area	thread		Addition per 10 mm stroke kg	at 0 mm stroke length kg	Addition per 10 mm stroke kg	at 0 mm stroke length kg		
	mm	cm ²	mm	cm ²								
Double acting												
P1K-S032DT-XXXX ¹⁾	32	8,0	12	1,1	M10x1,25	0,33	0,024	0,09	0,009	0,105 ²⁾	1/8	
P1K-S040DT-XXXX ¹⁾	40	12,6	16	2,0	M12x1,25	0,48	0,032	0,14	0,016	0,162 ²⁾	1/8	
P1K-S050DT-XXXX ¹⁾	50	19,6	20	3,1	M16x1,5	0,70	0,049	0,26	0,025	0,253 ²⁾	1/8	
P1K-S063DT-XXXX ¹⁾	63	31,2	20	3,1	M16x1,5	1,04	0,058	0,31	0,025	0,414 ²⁾	1/8	
P1K-S080DT-XXXX ¹⁾	80	50,0	25	4,9	M20x1,5	1,75	0,081	0,56	0,039	0,669 ²⁾	1/4	
P1K-S100DT-XXXX ¹⁾	100	79,0	32	8,0	M20x1,5	2,48	0,116	0,86	0,063	1,043 ²⁾	1/4	
P1K-S125DT-XXXX ¹⁾	125	123,0	32	8,0	M27x2	4,35	0,138	1,77	0,063	1,662 ²⁾	3/8	
Single acting												
P1K-S032ST-0025	32	8,0	12	1,1	M10x1,25	0,48 ³⁾		0,15 ³⁾		0,141 ³⁾	1/8	
P1K-S032ST-0050	32	8,0	12	1,1	M10x1,25	0,60 ³⁾		0,27 ³⁾		0,282 ³⁾	1/8	
P1K-S040ST-0025	40	12,6	16	2,0	M12x1,25	0,67 ³⁾		0,24 ³⁾		0,220 ³⁾	1/8	
P1K-S040ST-0050	40	12,6	16	2,0	M12x1,25	0,84 ³⁾		0,32 ³⁾		0,440 ³⁾	1/8	
P1K-S050ST-0025	50	19,6	20	3,1	M16x1,5	1,02 ³⁾		0,44 ³⁾		0,344 ³⁾	1/8	
P1K-S050ST-0050	50	19,6	20	3,1	M16x1,5	1,27 ³⁾		0,57 ³⁾		0,688 ³⁾	1/8	
P1K-S063ST-0025	63	31,2	20	3,1	M16x1,5	1,41 ³⁾		0,51 ³⁾		0,546 ³⁾	1/8	
P1K-S063ST-0050	63	31,2	20	3,1	M16x1,5	1,72 ³⁾		0,63 ³⁾		1,092 ³⁾	1/8	
P1K-S080ST-0050	80	50,0	25	4,9	M20x1,5	2,81 ³⁾		1,13 ³⁾		1,760 ³⁾	1/4	
P1K-S100ST-0050	100	79,0	32	8,0	M20x1,5	3,99 ³⁾		1,74 ³⁾		2,748 ³⁾	1/4	

1) XXXX=stroke length. 2) Free air consumption per 100 mm stroke length for a double stroke at 6 bar. 3) At the relevant stroke length.

Piston forces

The values for piston forces are theoretical and should be reduced to suit working conditions.

Cylinder designation	Theoretical piston force at 6 bar		Spring force	
	Plus stroke Nmax	Nmin	Minus stroke Nmax	Nmin
Single acting				
P1K-S032ST-0025	450	441	39	30
P1K-S032ST-0050	450	432	48	30
P1K-S040ST-0025	714	704	50	40
P1K-S040ST-0050	714	688	50	40
P1K-S050ST-0025	1120	1101	79	60
P1K-S050ST-0050	1120	1090	90	60
P1K-S063ST-0025	1800	1782	88	70
P1K-S063ST-0050	1800	1771	99	70
P1K-S080ST-0050	2925	2878	142	95
P1K-S100ST-0050	4570	4518	192	140

Material specifications

Cylinder barrel	Anodised aluminium
End covers	Anodised aluminium
End cap screws	Galvanized steel
Piston	Steel/Nitrile rubber, NBR
Piston rod bearing	Acetal plastic/Bronze/Steel
Piston rod	Stainless steel
	X 10 CrNiS 18 9
Scraper ring, piston rod sealing	UHMWPE-plastic
Cushioning ring	Polyurethane
Other sealings	Nitrile rubber, NBR
Return spring	stainless spring steel

Option

Piston rod material	Hard-chromium plated steel, Fe 490-2 FN
	Acid-proof steel, X 5 CrNiMo 17 13 3
	Hard-chromium plated stainless steel, X 10 CrNiS 18 9

Guide for selecting suitable tubing

The selection of the correct size of tubing is often based on experience, with no great thought to optimizing energy efficiency and cylinder velocity. This is usually acceptable, but making a rough calculation can result in worthwhile economic gains.

The following is the basic principle:

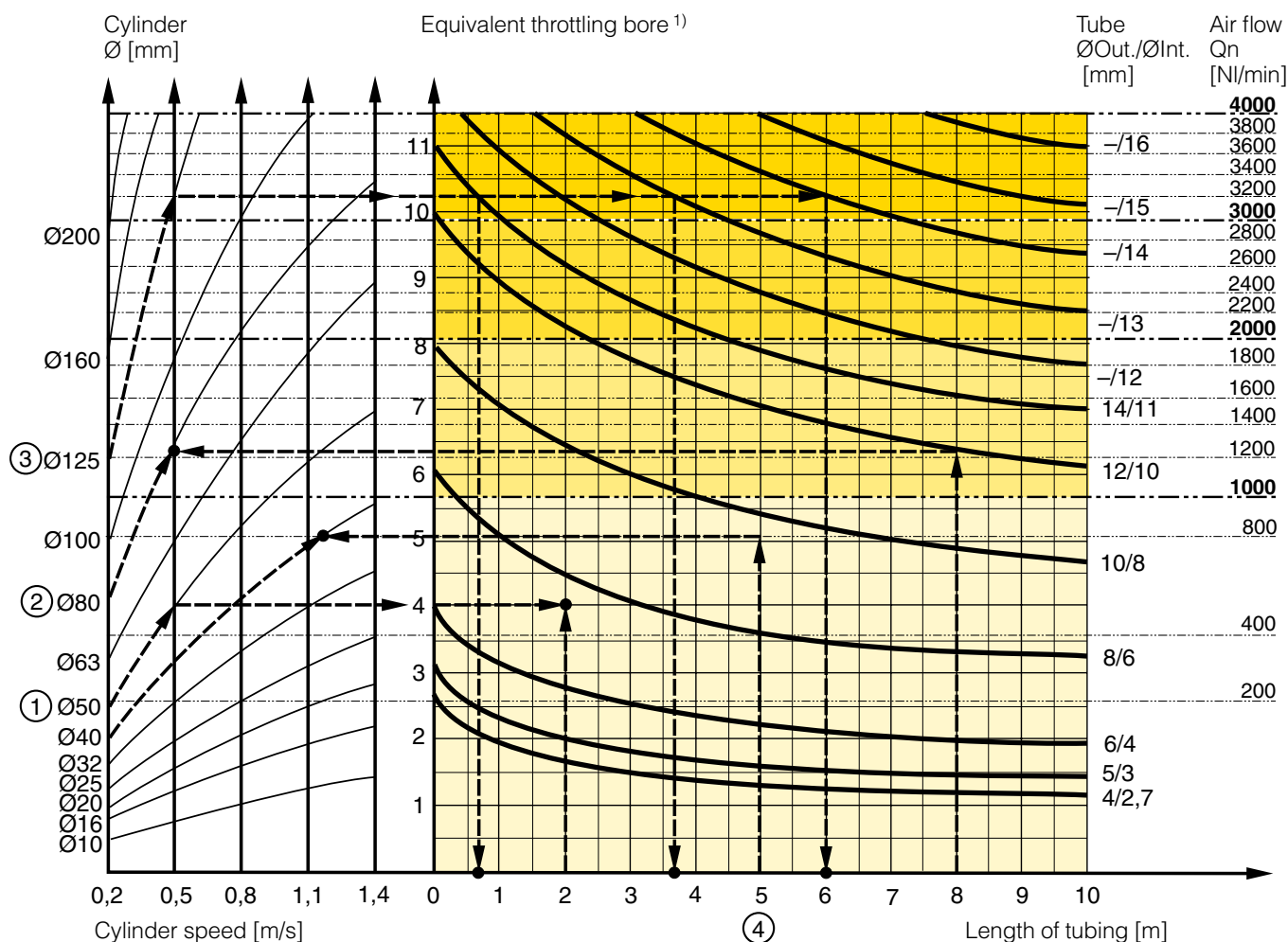
1. The primary line to the working valve could be over sized (this does not cause any extra air consumption and consequently does not create any extra costs in operation).
2. The tubes between the valve and the cylinder should, however, be optimized according to the principle that an insufficient bore throttles the flow and thus limits the cylinder speed, while an oversized pipe creates a dead volume which increases the air consumption and filling time.

The chart below is intended to help when selecting the correct size of tube to use between the valve and the cylinder.

The following prerequisites apply:

The *cylinder load* should be about 50% of the theoretical force (= normal load). A lower load gives a higher velocity and vice versa. The tube size is selected as a function of the *cylinder bore*, the desired *cylinder velocity* and the *tube length* between the valve and the cylinder.

If you want to use the capacity of the valve to its maximum, and obtain maximum speed, the tubing should be chosen so that they at least correspond with the equivalent restriction diameter (see description below), so that the tubing does not restrict the total flow. This means that a short tubing must have at least the equivalent restriction diameter. If the tubing is longer, choose it from the table below. Straight fittings should be chosen for highest flow rates. (Elbow and banjo fittings cause restriction.)



- 1) The "equivalent throttling bore" is a long throttle (for example a tube) or a series of throttles (for example, through a valve) converted to a short throttle which gives a corresponding flow rate. This should not be confused with the "orifice" which is sometimes specified for valves. The value for the orifice does not normally take account of the fact that the valve contains a number of throttles.
- 2) Qn is a measure of the valve flow capacity, with flow measured in litre per minute (l/min) at 6 bar(e) supply pressure and 1 bar pressure drop across the valve.

Example ① : Which tube diameter should be used?

A 50 mm bore cylinder is to be operated at 0.5 m/s. The tube length between the valve and cylinder is 2 m. In the diagram we follow the line from 50 mm bore to 0.5 m/s and get an "equivalent throttling bore" of approximately 4 mm. We continue out to the right in the chart and intersect the line for a 2 m tube between the curves for 4 mm (6/4 tube) and 6 mm (8/6 tube). This means that a 6/4 tube throttles the velocity somewhat, while an 8/6 tube is a little too large. We select the 8/6 tube to obtain full cylinder velocity.

Example ②: What cylinder velocity will be obtained?

A 80 mm bore cylinder will be used, connected by 8 m 12/10 tube to a P2L-B valve. What cylinder velocity will we get? We refer to the diagram and follow the line from 8 mm tube length up to the curve for 12/10 tube. From there, we go horizontally to the curve for the Ø80 cylinder. We find that the velocity will be about 0.5 m/s.

Example ③: What is the minimum inner diameter and maximum length of tube?

For an application a 125 mm bore cylinder will be used. Maximum velocity of piston rod is 0.5 m/s. The cylinder will be controlled by a P2L-D valve. What diameter of tube can be used and what is maximum length of tube. We refer to the diagram. We start at the left side of the diagram cylinder Ø125. We follow the line until the intersection with the velocity line of 0.5 m/s. From here we draw a horizontal line in the diagram. This line shows us we need an equivalent throttling bore of approximately 10 mm. Following this line horizontally we cross a few intersections. These intersections shows us the minimum inner diameter (rightside diagram) in combination with the maximum length of tube (bottomside diagram).

For example:

Intersection one: When a tube (14/11) will be used, the maximum length of tube is 0.7 meter.

Intersection two: When a tube (—/13) will be used, the maximum length of tube is 3.7 meter.

Intersection three: When a tube (—/14) will be used, the maximum length of tube is 6 meter.

Example ④ : Determining tube size and cylinder velocity with a particular cylinder and valve?

For an application using a 40 mm bore cylinder with a valve with Qn=800 NI/min. The distance between the cylinder and valve has been set to 5 m.

Tube dimension: What tube bore should be selected to obtain the maximum cylinder velocity? Start at pipe length 5 m, follow the line up to the intersection with 800 NI/min. Select the next largest tube diameter, in this case Ø10/8 mm.

Cylinder velocity: What maximum cylinder velocity will be obtained? Follow the line for 800 NI/min to the left until it intersects with the line for the Ø40 mm cylinder. In this example, the speed is just above 1.1 m/s.

Valve series with respective flows in NI/minute

Valve series	Qn in NI/Min
Valvetronic Solstar	33
Interface PS1	100
Adex A05	173
Moduflex size 1, (2 x 3/2)	220
Valvetronic PVL-B 5/3 closed centre, 6 mm push in	290
Moduflex size 1, (4/2)	320
B43 Manual and mechanical	340
Valvetronic PVL-B 2 x 2/3, 6 mm push in	350
Valvetronic PVL-B 5/3 closed centre, G1/8	370
Compact Isomax DX02	385
Valvetronic PVL-B 2 x 3/2 G1/8	440
Valvetronic PVL-B 5/2, 6 mm push in	450
Valvetronic PVL-B 5/3 vented centre, 6 mm push in	450
Moduflex size 2, (2 x 3/2)	450
Flowstar P2V-A	520
Valvetronic PVL-B 5/3 vented centre, G1/8	540
Valvetronic PVL-B 5/2, G1/8	540
Valvetronic PVL-C 2 x 3/2, 8 mm push in	540
Adex A12	560
Valvetronic PVL-C 2 x 3/2 G1/8	570
Compact Isomax DX01	585
VIKING Xtreme P2LAX	660
Valvetronic PVL-C 5/3 closed centre, 8 mm push in	700
Valvetronic PVL-C 5/3 vented centre, G1/4	700
B3-Series	780
Valvetronic PVL-C 5/3 closed centre, G1/4	780
Moduflex size 2, (4/2)	800
Valvetronic PVL-C 5/2, 8 mm push in	840
Valvetronic PVL-C 5/3 vented centre, 8 mm push in	840
Valvetronic PVL-C 5/2, G1/4	840
Flowstar P2V-B	1090
ISOMAX DX1	1150
B53 Manual and mechanical	1160
B4-Series	1170
VIKING Xtreme P2LBX	1290
B5-Series, G1/4	1440
Airline Isolator Valve VE22/23	1470
ISOMAX DX2	2330
VIKING Xtreme P2LCX, G3/8	2460
VIKING Xtreme P2LDX, G1/2	2660
ISOMAX DX3	4050
Airline Isolator Valve VE42/43	5520
Airline Isolator Valve VE82/83	13680

NOTE!

P1K cylinders are equipped with damping cushions, and are therefore designed to reach the following reduced maximum speeds.

Max speed for diameters 3 , 40 and 50 mm is 1.1 m/s

Max speed for diameter 63 mm is 0.8 m/s

Max speed for diameters 80, 100 and 150 mm is 0.6 m/s

Order key

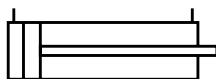
P1K	-	S	032	D	T	-	0100																						
Cyl. bore mm		Cylinder type/Function			Stroke (mm) E.g. 0025 = 25 mm																								
<table border="1"> <tr><td>032</td></tr> <tr><td>040</td></tr> <tr><td>050</td></tr> <tr><td>063</td></tr> <tr><td>080</td></tr> <tr><td>100</td></tr> <tr><td>125</td></tr> </table>		032	040	050	063	080	100	125	<table border="1"> <tr> <td>D</td> <td></td> <td>Double acting</td> </tr> <tr> <td>K</td> <td></td> <td>Double acting through rod</td> </tr> <tr> <td>S</td> <td></td> <td>Single acting spring return</td> </tr> <tr> <td>B</td> <td></td> <td>Double acting Pin screws and nuts in rear end cover</td> </tr> <tr> <td>A</td> <td></td> <td>Double acting End cover screws in stainless steel</td> </tr> </table>			D		Double acting	K		Double acting through rod	S		Single acting spring return	B		Double acting Pin screws and nuts in rear end cover	A		Double acting End cover screws in stainless steel	For standard stroke length and max length, see table below		
032																													
040																													
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S		Single acting spring return																											
B		Double acting Pin screws and nuts in rear end cover																											
A		Double acting End cover screws in stainless steel																											
Material piston rod				Type of sealing																									
Stainless steel	Hard chromed steel	Acid-proof steel	Chromed stainl. steel																										
A	T	X	1	Standard -20 °C to +80 °C																									

* Piston rod with female thread, please contact customer service.

Standard stroke length in mm

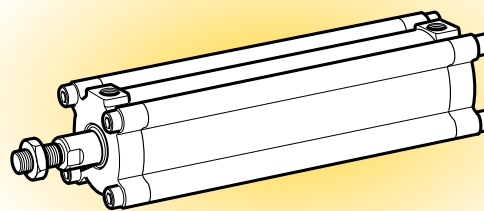
Cylinder design.	Cylinder bore (mm)	● Standard stroke length (mm)												■ Non standard stroke length											
XXXX = Stroke		25	50	80	100	125	160	200	250	320	400	500	600	700	800	900	2800								
Double acting																									
P1K-S032DT-XXXX	32	●	●	●	●	●	●	●	●								//								
P1K-S040DT-XXXX	40	●	●	●	●	●	●	●	●								//								
P1K-S050DT-XXXX	50	●	●	●	●	●	●	●	●								//								
P1K-S063DT-XXXX	63	●	●	●	●	●	●	●	●								//								
P1K-S080DT-XXXX	80	●	●	●	●	●	●	●	●								//								
P1K-S100DT-XXXX	100	●	●	●	●	●	●	●	●								//								
P1K-S125DT-XXXX	125	●	●	●	●	●	●	●	●																
Single acting spring return																									
P1K-S032ST-XXXX	32	●	●																						
P1K-S040ST-XXXX	40	●	●																						
P1K-S050ST-XXXX	50	●																							
P1K-S063ST-XXXX	63	●	●																						
P1K-S080ST-XXXX	80		●																						
P1K-S100ST-XXXX	100		●																						

Double-acting

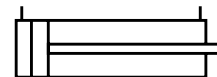


Fixed end cushioning

Cyl. bore mm	Stroke mm	Order code
32 Conn. G1/8	25	P1K-S032DT-0025
	50	P1K-S032DT-0050
	80	P1K-S032DT-0080
	100	P1K-S032DT-0100
	125	P1K-S032DT-0125
	160	P1K-S032DT-0160
40 Conn. G1/8	200	P1K-S032DT-0200
	250	P1K-S032DT-0250
	25	P1K-S040DT-0025
	50	P1K-S040DT-0050
	80	P1K-S040DT-0080
	100	P1K-S040DT-0100
50 Conn. G1/8	125	P1K-S040DT-0125
	160	P1K-S040DT-0160
	200	P1K-S040DT-0200
	250	P1K-S040DT-0250
	25	P1K-S050DT-0025
	50	P1K-S050DT-0050
63 Conn. G1/8	80	P1K-S050DT-0080
	100	P1K-S050DT-0100
	125	P1K-S050DT-0125
	160	P1K-S050DT-0160
	200	P1K-S050DT-0200
	250	P1K-S050DT-0250
80 Conn. G1/4	25	P1K-S063DT-0025
	50	P1K-S063DT-0050
	80	P1K-S063DT-0080
	100	P1K-S063DT-0100
	125	P1K-S063DT-0125
	160	P1K-S063DT-0160
100 Conn. G1/4	200	P1K-S063DT-0200
	250	P1K-S063DT-0250
	25	P1K-S080DT-0025
	50	P1K-S080DT-0050
	80	P1K-S080DT-0080
	100	P1K-S080DT-0100
125 Conn. G3/8	125	P1K-S080DT-0125
	160	P1K-S080DT-0160
	200	P1K-S080DT-0200
	250	P1K-S080DT-0250
	25	P1K-S100DT-0025
	50	P1K-S100DT-0050
160 Conn. G1/2	80	P1K-S100DT-0080
	100	P1K-S100DT-0100
	125	P1K-S100DT-0125
	160	P1K-S100DT-0160
	200	P1K-S100DT-0200
	250	P1K-S100DT-0250

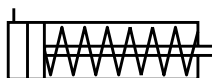


The cylinders are supplied complete with one zinc plated steel piston rod nut.



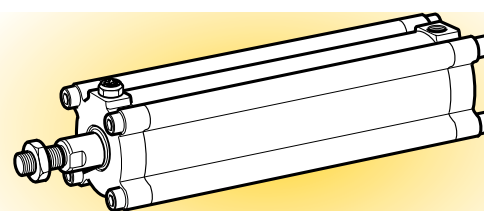
Fixed end cushioning

Cyl. bore mm	Stroke mm	Order code
80 Conn. G1/4	25	P1K-S080DT-0025
	50	P1K-S080DT-0050
	80	P1K-S080DT-0080
	100	P1K-S080DT-0100
	125	P1K-S080DT-0125
	160	P1K-S080DT-0160
100 Conn. G1/4	200	P1K-S080DT-0200
	250	P1K-S080DT-0250
	25	P1K-S100DT-0025
	50	P1K-S100DT-0050
	80	P1K-S100DT-0080
	100	P1K-S100DT-0100
125 Conn. G3/8	125	P1K-S100DT-0125
	160	P1K-S100DT-0160
	200	P1K-S100DT-0200
	250	P1K-S100DT-0250
	25	P1K-S125DT-0025
	50	P1K-S125DT-0050
160 Conn. G1/2	80	P1K-S125DT-0080
	100	P1K-S125DT-0100
	125	P1K-S125DT-0125
	160	P1K-S125DT-0160
	200	P1K-S125DT-0200
	250	P1K-S125DT-0250

Single-acting,
spring return

Fixed end cushioning

Cyl. bore mm	Stroke mm	Order code
32 Conn. G1/8	25	P1K-S032ST-0025
	50	P1K-S032ST-0050
40 Conn. G1/8	25	P1K-S040ST-0025
	50	P1K-S040ST-0050
50 Conn. G1/8	25	P1K-S050ST-0025
63 Conn. G1/8	25	P1K-S063ST-0025
	50	P1K-S063ST-0050
80 Conn. G1/4	50	P1K-S080ST-0050
100 Conn. G1/4	50	P1K-S100ST-0050



The cylinders are supplied complete with one zinc plated steel piston rod nut.

Order key, special versions

1K	S	K	D	T	H95	V	A50	S	F
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Cylinder type
See page 10

**Cylinder type/
Function**
See page 10

Cylinder bore mm

K	32
L	40
M	50
N	63
P	80
Q	100
R	125

**Material piston rod/
Type of sealing**
See page 10

Stroke length (mm), E. g. H95=1795
For standard and max stroke length
see table on page 10

0-999	0-999	M00-M99	2100-2199
A00-A99	1000-1099	N00-N99	2200-2299
B00-B99	1100-1199	P00-P99	2300-2399
C00-C99	1200-1299	Q00-Q99	2400-2499
D00-D99	1300-1399	R00-R99	2500-2599
E00-E99	1400-1499	S00-S99	2600-2699
F00-F99	1500-1599	T00-T99	2700-2799
G00-G99	1600-1699	V00-V99	2800-2899
H00-H99	1700-1799	W00-W99	2900-2999
J00-J99	1800-1899		
K00-K99	1900-1999		
L00-L99	2000-2099		

Option

N	None
P	Extended piston rod

Factory fitted piston rod mountings

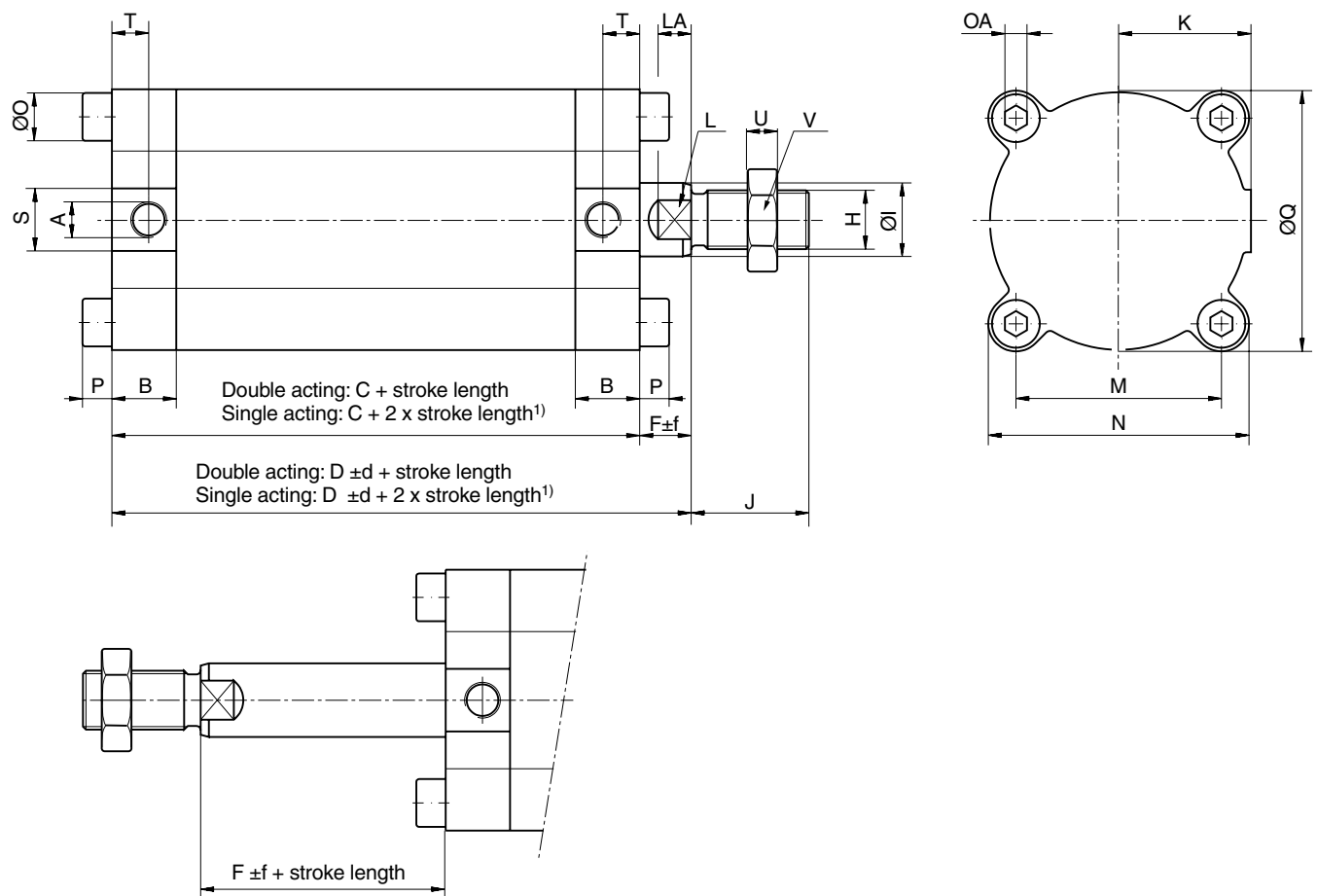
0	No mounting
S	Swivel rod eye
C	Clevis

Factory fitted cylinder mountings

0	No mounting
1	Flange MF1 mounted on front cover
2	Flange MF1/MF2 mounted on front and rear covers
B	Flange MF2 mounted on rear covers
F	Angle brackets MS1
E	Clevis bracket MP4
S	Swivel eye bracket
T	Clevis bracket MP2
L	Clevis brackets MP4 + MP2

Option

Option P: Extension in mm acc. to stroke length designation E. g. A50=1050 mm.
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Dimensions

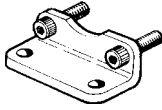
Cylinder designation	A	B	C	D	F	H	I	J	K	L	LA	M	N	O	OA	P	Q	S
		mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
P1K-S032	G1/8	17,0	65,0	75,0	10	M10x1,25	12	22	21,0	10	6	32,5	42,5	8,5	4	5	37	17
P1K-S040	G1/8	17,0	65,0	78,0	13	M12x1,25	16	24	24,0	14	9	36,8	48,0	10,0	5	6	45	17
P1K-S050	G1/8	17,5	71,0	85,0	14	M16x1,5	20	32	29,0	17	9	46,7	59,0	10,0	5	6	56	17
P1K-S063	G1/8	17,5	72,0	86,0	14	M16x1,5	20	32	36,0	17	9	55,9	71,0	13,0	6	8	70	17
P1K-S080	G1/4	21,5	85,0	101,0	16	M20x1,5	25	40	44,5	22	10	70,0	87,0	16,0	8	10	87	21
P1K-S100	G1/4	21,5	87,0	108,0	21	M20x1,5	32	40	55,0	27	13	84,1	102,0	16,0	8	10	108	21
P1K-S125	G3/8	25,5	94,5	115,5	21	M27x2	32	54	68,0	27	13	104,0	124,0	18,0	10	12	134	25

Dimensions

Cylinder designation	T	U	V	Dimensions D and F		Stroke length
	mm	mm	mm	d	f	0-320 mm (at 6 bar)
				mm	mm	mm
P1K-S032	10	5,0	17	0,9	1,2	+2,0
P1K-S040	10	6,0	19	0,9	1,2	+2,0
P1K-S050	10	8,0	24	0,9	1,2	+2,0
P1K-S063	10	8,0	24	1,2	1,6	+2,5
P1K-S080	12	10,0	30	1,2	1,6	+2,5
P1K-S100	12	10,0	30	1,2	1,6	+2,5
P1K-S125	14	13,5	41	1,2	1,6	+2,5

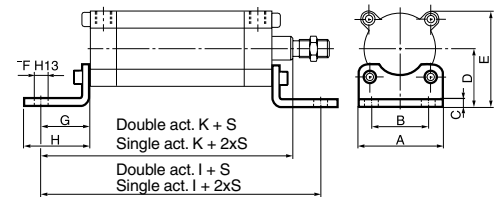
1) Stroke length for dimensions 32-63 = 25 and 50 mm, for dimensions 80-100 = 50 mm.

Cylinder mountings

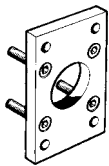
Type	Description	Cyl. bore Ø mm	Weight kg	Order code
Foot bracket MS1 	Intended for fixed mounting of cylinder. This bracket can be fitted to front and rear end covers. Material Body galvanized steel. These brackets are supplied in pairs. When fitting: <i>Remove the bolts from the cylinder end cover and fit the bracket, using the same bolts. The bolts supplied with the mount are intended for use with another range of cylinders and must not be used with the P1K range.</i>	32	0,08	9121644801
		40	0,11	9121644802
		50	0,18	9121644803
		63	0,26	9121644804
		80	0,50	9121644805
		100	0,80	9121644806
		125	1,40	9121644807

Cyl. Ø mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm
32	48	32	5,0	32	53	7	24	32	113,0	99,0
40	54	36	5,0	36	60	9	31	42	127,0	109,0
50	64	45	6,0	45	75	9	33	45	137,0	118,0
63	76	50	6,0	50	86	9	36	48	144,0	122,0
80	94	63	8,0	63	107	12	43	58	171,0	144,0
100	110	75	10,5	71	122	14	43	60	173,0	151,0
125	135	90	12,5	90	157	16	45	70	184,5	160,5

S=stroke length



Flange MF1 and MF2



Intended for fixed mounting of cylinder. This bracket can be fitted to front and rear end covers.

Material
Diam. 32 - 63 mm: flange anodised aluminium
Diam. 80 - 125 mm: flange galvanized steel
The flange is supplied complete with screws for mounting on the cylinder.

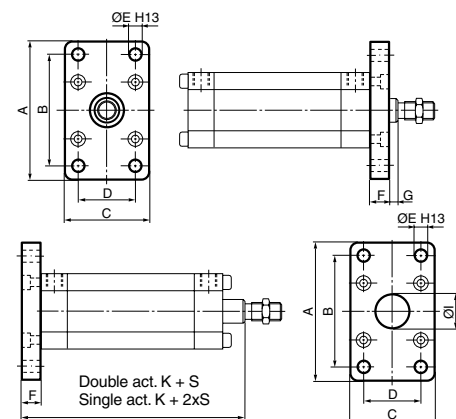
32	0,26	9121644901
40	0,37	9121644902
50	0,52	9121644903
63	0,90	9121644904
80	1,59	9121644905
100	2,19	9121644906
125	3,90	9121644907

When fitting:

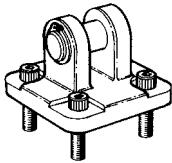
Remove the bolts from the cylinder end cover and fit the bracket, using the same bolts. The bolts supplied with the mount are intended for use with another range of cylinders and must not be used with the P1K range.

Cyl. Ø mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm
32	80	64	48	32	7	10	0	86,0	27
40	90	72	54	36	9	13	0	91,0	32
50	110	90	64	45	9	13	1	98,0	40
63	120	100	76	50	9	16	-2	102,0	40
80	155	126	94	63	12	18	-2	119,0	50
100	180	150	110	75	14	18	3	126,0	60
125	220	180	135	90	16	20	1	135,5	72

S=stroke length

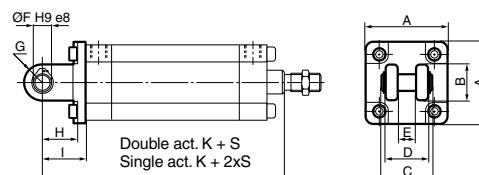


Cylinder mountings

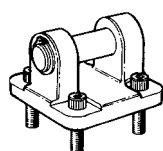
Type	Description	Cyl. bore Ø mm	Weight kg	Order code
Clevis bracket MP4 	Intended for flexible mounting of cylinder. This bracket can be combined with clevis bracket MP2 and swivel rod bracket. Materials: Body anodised aluminium and shaft of hardened steel. The mount is supplied complete with shaft. When fitting: <i>Remove the bolts from the cylinder end cover and fit the mount, using the same bolts. The bolts supplied with the mount are intended for use with another range of cylinders and must not be used with the P1K range.</i>	32	0,05	9121644601
		40	0,13	9121644602
		50	0,18	9121644603
		63	0,34	9121644604
		80	0,57	9121644605
		100	0,91	9121644606
		125	2,90	9121644607

Cyl. Ø mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm
32	48	22	33	26	10	10	11	15,0	22	97,0
40	54	24	35	28	12	12	12	21,0	28	106,0
50	64	32	39	32	12	12	13	19,5	28	113,0
63	76	39	47	40	16	16	17	26,0	36	122,0
80	94	48	57	50	16	16	17	26,0	38	139,0
100	110	62	67	60	20	20	21	29,0	43	151,0
125	135	70	77	70	25	25	26	35,0	50	165,5

S=stroke length



Clevis bracket MP2



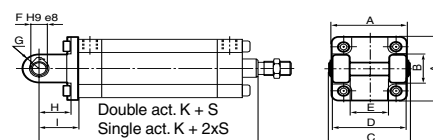
Intended for flexible mounting of cylinder. This bracket can be combined with clevis bracket MP4.

Materials:
Body anodised aluminium and shaft of hardened steel.
The mount is supplied complete with shaft.**When fitting:***Remove the bolts from the cylinder end cover and fit the mount, using the same bolts. The bolts supplied with the mount are intended for use with another range of cylinders and must not be used with the P1K range.*

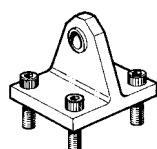
32	0,13	9121644701
40	0,19	9121644702
50	0,22	9121644703
63	0,40	9121644704
80	0,65	9121644705
100	1,09	9121644706
125	3,60	9121644707

Cyl. Ø mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm
32	48	22	52	45	26	10	11	15,0	22	97,0
40	54	24	59	52	28	12	12	21,0	28	106,0
50	64	32	67	60	32	12	13	19,5	28	113,0
63	76	39	77	70	40	16	17	26,0	36	122,0
80	94	48	97	90	50	16	17	26,0	38	139,0
100	110	62	117	110	60	20	21	29,0	43	151,0
125	135	70	137	130	70	25	26	35,0	50	165,5

S=stroke length



Swivel rod bracket



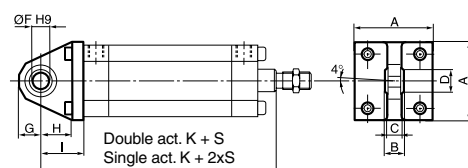
Intended for flexible mounting of cylinder. The swivel rod permits lateral articulation. The bracket can be combined with clevis bracket MP4.

Materials:
Body anodised aluminium and swivel bearing of hardened steel.**When fitting:***Remove the bolts from the cylinder end cover and fit the mount, using the same bolts. The bolts supplied with the mount are intended for use with another range of cylinders and must not be used with the P1K range.*

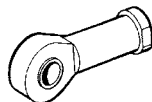
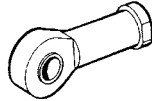
32	0,08	9121568601
40	0,12	9121568602
50	0,17	9121568603
63	0,30	9121568604
80	0,49	9121568605
100	0,73	9121568606
125	2,40	9121568607

Cyl. Ø mm	A mm	B mm	C mm	D mm	F mm	G mm	H mm	I mm	K mm
32	48	9	7,5	13,0	10	12,5	15,0	22	97,0
40	54	12	9,0	15,5	12	15,5	21,0	28	106,0
50	64	12	9,0	15,5	12	16,5	19,5	28	113,0
63	76	16	12,5	20,0	16	19,5	26,0	36	122,0
80	94	16	12,5	20,0	16	21,5	26,0	38	139,0
100	110	20	16,0	25,0	20	25,5	29,0	43	151,0
125	135	25	20,5	30,5	25	30,0	35,0	50	165,5

S=stroke length



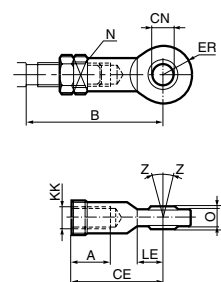
Piston rod mountings

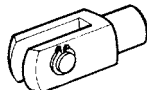
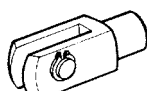
Type	Description	Cyl. bore Ø mm	Weight kg	Order code
Swivel rod eye 	Intended for articulated mounting of the cylinder. Maintenance-free PTFE. Material: Swivel rod eye, nut: galvanized steel. Swivel bearing according to DIN 648K: Hardened steel.	32	0,08	P1C-4KRS
		40	0,12	P1C-4LRS
		50	0,25	P1C-4MRS
		63	0,25	P1C-4MRS
		80	0,46	P1C-4PRS
		100	0,46	P1C-4PRS
		125	1,28	P1C-4RRS
Stainless steel swivel rod eye 	Stainless-steel swivel rod eye for articulated mounting of cylinder. Maintenance-free. Materials Swivel rod eye: Stainless steel Swivel bearing according to DIN 648K: Stainless steel Use stainless steel nut (see page 17) with stainless steel swivel rod eye.	32	0,08	P1S-4JRT
		40	0,12	P1S-4LRT
		50	0,25	P1S-4MRT
		63	0,25	P1S-4MRT
		80	0,46	P1S-4PRT
		100	0,46	P1S-4PRT
		125	1,28	P1S-4RRT

ISO 8139

Cyl.- dia. mm	A mm	B min mm	B max mm	CE mm	CN H9 mm	EN h12 mm	ER mm	KK	LE min mm	N* mm	O mm	Z
32	20	48,0	55	43	10	14	14	M10x1,25	15	17	10,5	12°
40	22	56,0	62	50	12	16	16	M12x1,25	17	19	12,0	12°
50	28	72,0	80	64	16	21	21	M16x1,5	22	22	15,0	15°
63	28	72,0	80	64	16	21	21	M16x1,5	22	22	15,0	15°
80	33	87,0	97	77	20	25	25	M20x1,5	26	32	18,0	15°
100	33	87,0	97	77	20	25	25	M20x1,5	26	32	18,0	15°
125	51	123,5	137	110	30	37	35	M27x2	36	41	25,0	15°

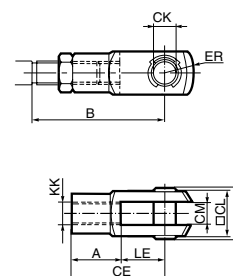
*key grip



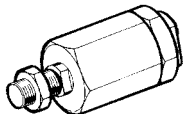
Clevis 	Intended for articulated mounting of the cylinder. Material: Clevis and clip galvanized steel. Pin: Hardened steel Supplied complete with axle.	32	0,09	P1C-4KRC
		40	0,15	P1C-4LRC
		50	0,35	P1C-4MRC
		63	0,35	P1C-4MRC
		80	0,75	P1C-4PRC
		100	0,75	P1C-4PRC
		125	2,10	P1C-4RRC
Stainless steel clevis 	Stainless-steel clevis for articulated mounting of cylinder. Material Clevis: Stainless steel Pin: Stainless steel Circlips according to DIN 471: Stainless steel Use stainless steel nut (see page 17) with stainless steel swivel rod eye.	32	0,09	P1S-4JRD
		40	0,15	P1S-4LRD
		50	0,35	P1S-4MRD
		63	0,35	P1S-4MRD
		80	0,75	P1S-4PRD
		100	0,75	P1S-4PRD
		125	2,10	P1S-4RRD

ISO 8140

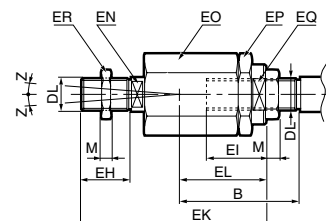
Cyl.- dia. mm	A mm	B min mm	B max mm	CE mm	CK h11/E9 mm	CL mm	CM mm	ER mm	KK	LE mm	O mm
32	20	45,0	52	40	10	20	10	16	M10x1,25	20	28,0
40	24	54,0	60	48	12	24	12	19	M12x1,25	24	32,0
50	32	72,0	80	64	16	32	16	25	M16x1,5	32	41,5
63	32	72,0	80	64	16	32	16	25	M16x1,5	32	41,5
80	40	90,0	100	80	20	40	20	32	M20x1,5	40	50,0
100	40	90,0	100	80	20	40	20	32	M20x1,5	40	50,0
125	56	123,5	137	110	30	55	30	45	M27x2	54	72,0



Piston rod mountings

Type	Description	Cyl. bore Ø mm	Weight kg	Order code
Flexo coupling 	Flexo coupling for articulated mounting of piston rod.	32	0,21	P1C-4KRF
	Flexo fitting is intended to take up axial angle errors within a range of $\pm 4^\circ$.	40	0,22	P1C-4LRF
		50	0,67	P1C-4MRF
		63	0,67	P1C-4MRF
	Material	80	0,72	P1C-4PRF
	Flexo coupling, nut: Zinc-plated steel	100	0,72	P1C-4PRF
	Socket: Hardened steel	125	1,80	P1C-4RRF
	Supplied complete with galvanized adjustment nut.			

Cyl.- bore mm	B min	B max	DL	EH	EI	EK	EL	EN	EO	EP	EQ	ER	M	Z
32	36,0	43	M10x1,25	20	23	70	31	12	30	30	19	30	5,0	4°
40	37,0	43	M12x1,25	23	23	67	31	12	30	30	19	30	6,0	4°
50	53,0	61	M16x1,5	40	32	112	45	19	41	41	30	41	8,0	4°
63	53,0	61	M16x1,5	40	32	112	45	19	41	41	30	41	8,0	4°
80	57,0	67	M20x1,5	39	42	122	56	19	41	41	30	41	10,0	4°
100	57,0	67	M20x1,5	39	42	122	56	19	41	41	30	41	10,0	4°
125	75,5	89	M27x2	48	48	145	60	24	55	55	32	55	13,5	4°



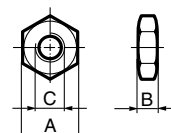
Piston rod nut 	Intended for fixed mounting of accessories to the piston rod.	32	0,007	9128985601
		40	0,010	0261109910
		50	0,021	9128985603
	Material: Zinc-plated steel	63	0,021	9128985603
		80	0,040	0261109911
	The cylinders are supplied complete with one zinc plated steel piston rod nut.	100	0,040	0261109911
		125	0,100	0261109912

Stainless steel nut 	Intended for fixed mounting of accessories to the piston rod.	32	0,007	9126725404
		40	0,010	9126725405
		50	0,021	9126725406
	Material: Stainless steel A2	63	0,021	9126725406
		80	0,040	0261109921
	The cylinders are supplied complete with one zinc plated steel piston rod nut.	100	0,040	0261109921
		125	0,100	0261109922

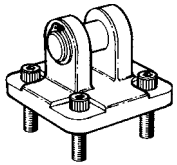
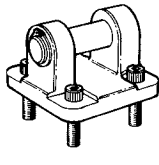
Acid-proof nut 	Intended for fixed mounting of accessories to the piston rod.	32	0,007	0261109919
		40	0,010	0261109920
		50	0,021	0261109917
	Material: Acid-proof steel A4	63	0,021	0261109917
		80	0,040	0261109916
	Cylinders with acid-proof piston rod are supplied with nut of acid-proof steel	100	0,040	0261109916
		125	0,100	0261109918

Enligt DIN 439 B

Cyl. Ø mm	A mm	B mm	C
32	17	5,0	M10x1,25
40	19	6,0	M12x1,25
50	24	8,0	M16x1,5
63	24	8,0	M16x1,5
80	30	10,0	M20x1,5
100	30	10,0	M20x1,5
125	41	13,5	M27x2

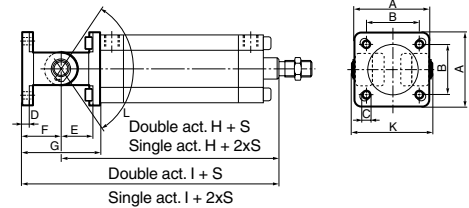


Combinations

Type	Description	Cyl. bore Ø mm	Order code	Order code
Clevis bracket MP4	Clevis bracket MP2	In this combination the clevis bracket MP4 is attached to the indicated cylinder.	MP4	MP2
		32	9121644601	9121644701
		40	9121644602	9121644702
		50	9121644603	9121644703
		63	9121644604	9121644704
		80	9121644605	9121644705
		100	9121644606	9121644706
		125	9121644607	9121644707

Cyl. Ø mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm	L
32	48	32,5	5,5	7,0	15,0	22	44	97,0	119,0	52	104°
40	54	36,8	6,6	7,0	21,0	28	56	106,0	134,0	59	130°
50	64	46,7	6,6	8,5	19,5	28	56	113,0	141,0	67	120°
63	76	55,9	9,0	10,0	26,0	36	72	122,0	158,0	77	110°
80	94	70,0	11,0	12,0	26,0	38	76	139,0	177,0	97	80°
100	110	84,1	11,0	14,0	29,0	43	86	146,0	189,0	117	82°
125	135	104,0	14,0	15,0	35,0	50	100	165,5	215,5	137	82°

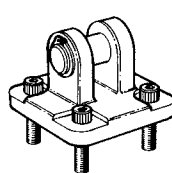
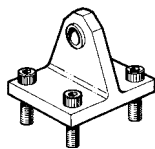
S=stroke length



Swivel rod bracket

Clevis bracket MP4

In this combination the swivel rod bracket is attached to the indicated cylinder.



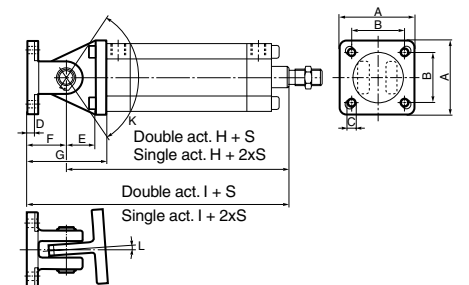
32
40
50
63
80
100
125

Swivel rod bracket MP4

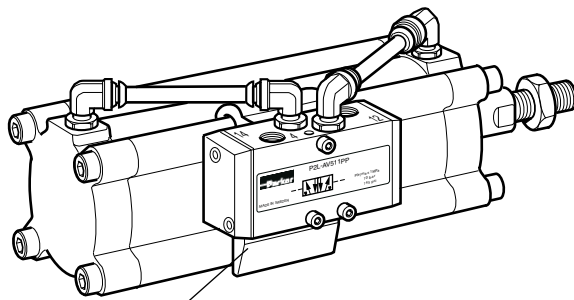
9121568601 **9121644601**
9121568602 **9121644602**
9121568603 **9121644603**
9121568604 **9121644604**
9121568605 **9121644605**
9121568606 **9121644606**
9121568607 **9121644607**

Cyl. Ø mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm	L
32	48	32,5	5,5	7,0	15,0	22	44	97,0	119,0	104°	5,7°
40	54	36,8	6,6	7,0	21,0	28	56	106,0	134,0	130°	5,5°
50	64	46,7	6,6	8,5	19,5	28	56	113,0	141,0	120°	5,2°
63	76	55,9	9,0	10,0	26,0	36	72	122,0	158,0	110°	5,1°
80	94	70,0	11,0	12,0	26,0	38	76	139,0	177,0	80°	4,6°
100	110	84,1	11,0	14,0	29,0	43	86	146,0	189,0	82°	4,4°
125	135	104,0	14,0	15,0	35,0	50	100	165,5	215,5	82°	4,4°

S=stroke length



Fitted VikingXtreme Valve



Mounting plate in
aluminium profile. for
fitted valve.

Material specification

Mounting plate	Anodised aluminium
Mounting screws for plate	Stainless steel
Mounting screws for valve	Zinc-plated steel

Accessories

Description	Order code
Silencer (Siflow) for P2LAX valve, G1/8	9301050901
Silencer (sintered plastic) for P2LAX valve, G1/8	P6M-PAB1
Mounting plate P2LAX P1K- Ø32, Ø40	9122520050
Mounting plate P2LAX P1K- Ø50, Ø63	9122520051
Mounting plate P2LAX P1K- Ø80	9122520052

Tightening torques

When attaching mountings, the bolts should be tightened to the following torques.

If other types of mounting are used, the following maximum metal thicknesses apply when using the cylinder end cover bolts.

Cylinder bore mm	Tightening torque Nm	Maximum metal thickness mm
32	4,5±0,5	7,0
40	8±0,8	7,0
50	8±0,8	8,5
63	20±2	10,0
80	40±4	12,0
100	40±4	14,0
125	60±6	15,0

Seal kits for complete P1K cylinder

Cyl. bore mm	Option			
	Standard	High Temp.	Low Temp.	Hydraulic
32	9122352088	9122421921	P1K-6032PL	9122421931
40	9122352089	9122421922	P1K-6040PL	9122421932
50	9122352090	9122421923	P1K-6050PL	9122421933
63	9122352091	9122421924	P1K-6063PL	9122421934
80	9122352092	9122421925	P1K-6080PL	9122421935
100	9122352093	9122421926	P1K-6100PL	9122421936
125	9122352100	*	*	9122421937

* Please contact customer service.

Grease for P1K



Standard	30g	9127394541
High temperature	30g	9127394521
Low temperature	30g	9127394541

Parker Worldwide

AE – UAE, Dubai
Tel: +971 4 8127100
parker.me@parker.com

AR – Argentina, Buenos Aires
Tel: +54 3327 44 4129

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AU – Australia, Castle Hill
Tel: +61 (0)2-9634 7777

AZ – Azerbaijan, Baku
Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

BR – Brazil, Cachoeirinha RS
Tel: +55 51 3470 9144

BY – Belarus, Minsk
Tel: +375 17 209 9399
parker.belarus@parker.com

CA – Canada, Milton, Ontario
Tel: +1 905 693 3000

CH – Switzerland, Etoy
Tel: +41 (0) 21 821 02 30
parker.switzerland@parker.com

CL – Chile, Santiago
Tel: +56 2 623 1216

CN – China, Shanghai
Tel: +86 21 5031 2525

CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid
Tel: +34 902 33 00 01
parker.spain@parker.com

FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens
Tel: +30 210 933 6450
parker.greece@parker.com

HK – Hong Kong
Tel: +852 2428 8008

HU – Hungary, Budapest
Tel: +36 1 220 4155
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IN – India, Mumbai
Tel: +91 22 6513 7081-85

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

JP – Japan, Tokyo
Tel: +(81) 3 6408 3901

KR – South Korea, Seoul
Tel: +82 2 559 0400

KZ – Kazakhstan, Almaty
Tel: +7 7272 505 800
parker.easteurope@parker.com

LV – Latvia, Riga
Tel: +371 6 745 2601
parker.latvia@parker.com

MX – Mexico, Apodaca
Tel: +52 81 8156 6000

MY – Malaysia, Shah Alam
Tel: +60 3 7849 0800

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Ski
Tel: +47 64 91 10 00
parker.norway@parker.com

NZ – New Zealand, Mt Wellington
Tel: +64 9 574 1744

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SG – Singapore
Tel: +65 6887 6300

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TH – Thailand, Bangkok
Tel: +662 717 8140

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

TW – Taiwan, Taipei
Tel: +886 2 2298 8987

UA – Ukraine, Kiev
Tel: +380 44 494 2731
parker.ukraine@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

US – USA, Cleveland
Tel: +1 216 896 3000

VE – Venezuela, Caracas
Tel: +58 212 238 5422

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

European Product Information Centre
Free phone: 00 800 27 27 5374
(from AT, BE, CH, CZ, DE, DK, ES, FI, FR, IE, IT, NL, NO, PL, PT, RU, SE, UK, ZA)

