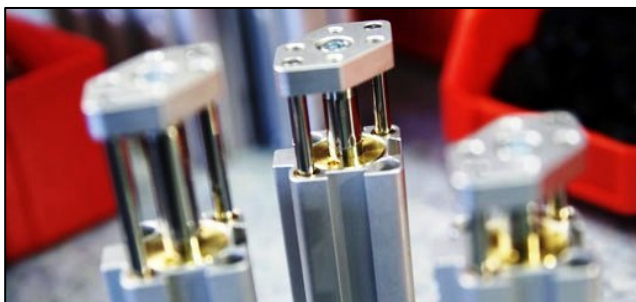



FS Engineering Short Form Catalogue Pneumatic Components by PWB

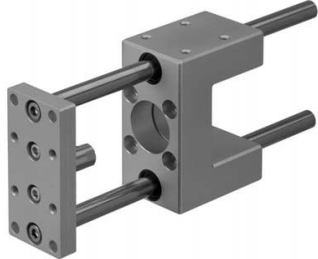
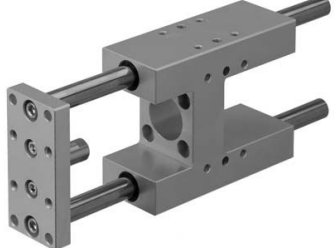


Standard Catalogue Products

Rod Locks

	<p>Rod Lock Cartridges FEL For clamping of piston and guide rods; Active and passive versions available, optional with magnetic piston for position sensing. For use with custom rod lock applications or as replacement for worn or damaged cartridges.</p>	<p>Rod-Ø 6 40 mm</p>
	<p>Cylinder Locking Units, Adapter with Cartridge Adapters for precise mounting of cartridges onto ISO and VDMA cylinders with extended piston rod. Special adapters for other pneumatic cylinders on request.</p>	<p>Cylinder-Ø 12 160 mm</p>

Cylinder Guide Units

	<p>Cylinder Guide Units U-Frame P51 Linear guide units with sinter bushes for medium loads and high speeds. For ISO and VDMA cylinders.</p>	<p>Cylinder-Ø 12 100 mm Stroke 50 1200 mm</p>
	<p>Cylinder Guide Units H-Frame P50 Linear guide units for heavy loads and high speeds. Choice of linear ball bearings or sinter bushes. For ISO and VDMA cylinders.</p>	<p>Cylinder-Ø 12 100 mm Stroke 50 1200 mm</p>

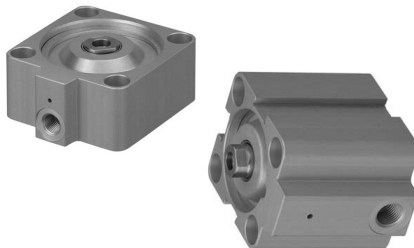

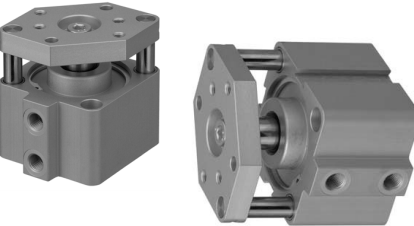
Please note:

- ⇒ Rod Locks and Cylinder Guide Units are standard catalogue items, no minimum quantities, short lead times.
- ⇒ Custom Specific Cylinders are produced to order, minimum quantities apply. Please request a quotation.
- ⇒ Special Products for Fluid Power applications are produced to custom design specifications. Please enquire.



Swiss made, high Precision and Quality assured.

Custom Specific Cylinders

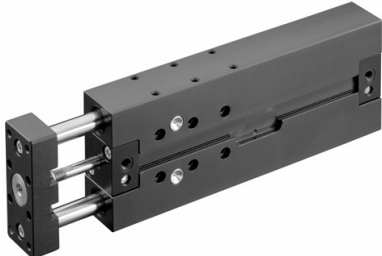
Short Stroke Cylinders

	<p>Short Stroke Cylinders PZE, PZEA Single acting short stroke cylinders PZE without sensing / PZEA with dove tail slot for insertion of proximity sensors. Particularly useful for clamping, positioning and locking applications.</p>	<p>Cylinder-Ø 12 100 mm Stroke 4 25 mm</p>
	<p>Short Stroke Cylinders PZD, PZDA Double acting short stroke cylinders PZD without sensing / PZDA with dove tail slot for insertion of proximity sensors. Particularly useful for clamping, positioning and locking applications.</p>	<p>Cylinder-Ø 12 100 mm Stroke 5 100 mm</p>
	<p>Short Stroke Cylinders PZDV, PZDVA Double acting short stroke cylinders, non-rotating PZDV without sensing / PZDVA with dove tail slot for insertion of proximity sensors.</p>	<p>Cylinder-Ø 16 100 mm Stroke 5 100 mm</p>





Compact Cylinders

	<p>Compact Cylinders PFE, PFD Single and double acting all purpose cylinders; very short body for space saving; T-profile slots for insertion of proximity sensors as standard.</p>	<p>Cylinder-Ø 12 100 mm Stroke 5 100 mm</p>
	<p>Compact Cylinders PFDV Double acting all purpose cylinders non-rotating with mounting flange for side loads; very short body for space saving; T-profile slots for insertion of proximity sensors as standard.</p>	<p>Cylinder-Ø 12 100 mm Stroke 5 100 mm</p>

Guided Cylinders

	<p>Guided Cylinders B22 Double acting guided cylinders. Choice of linear ball bearings or sinter bushes. Adjustable pneumatic end position damping and magnetic piston for end position sensing. Very compact, narrow build for space savings.</p>	<p>Cylinder-Ø 12 63 mm Stroke 50 200 mm</p>
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Special Products to Customer Specifications

	<p>Special Cylinder Guide Units Linear guide units can be combined with special cylinders and other PWB products. E.g. with a piston rod lock to suit customer design specifications.</p>	
	<p>Welding Cylinders Customised cylinders to operate resistance weld heads, with approach and weld stroke.</p>	<p>Cylinder-Ø 40160 mm</p>
	<p>Special Cylinders Customised application specific cylinders in small to medium batch sizes can provide a technical advantage and a cost-effective alternative to standard pneumatic cylinders.</p>	<p>Cylinder-Ø 6250 mm</p>
	<p>Manifolds, Distribution Blocks Customised manifold or distribution blocks for hydraulics or pneumatics to the highest quality requirements in Aluminium, brass or steel. In house aluminium anodizing facility available.</p>	