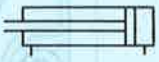
4

Double acting cylinder

Designs:

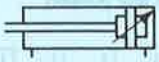
without end position cushioning

Type DN-...

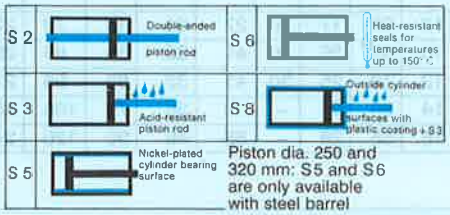


with end position cushioning adjustable at both ends

Type DN-...-PPV



Special designs:



Piston dia. 250 and 320 mm: S5 and S6 are only available with steel barrel

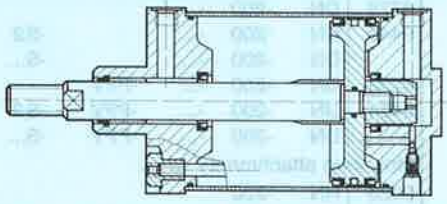
For dia. 125, 160 and 200 mm:

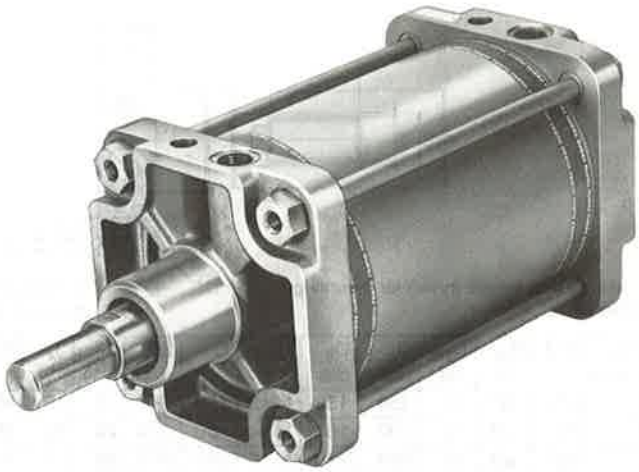
The special designs can be combined.

Additional components (sheets 1.310, 1.320):

- Rod clevis, Type SG
- Rod eye, Type SGS
- Self-aligning rod coupler, Type FK

Example: Type DN-...-PPV

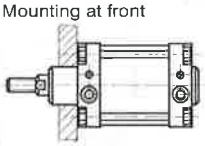




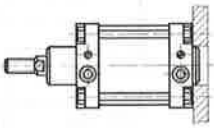
The operation, dimensions and mounting options of this cylinder series meet the specifications of ISO 6431, DIN 24 335 (VDMA) and CETOP RP 53 P.

Installation of basic cylinder without mounting attachments using internal threads of end cap-screws

Mounting at front

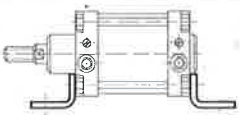


Mounting at rear

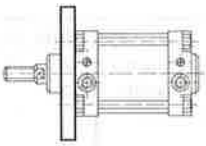


Other types of installation and additional mounting attachments

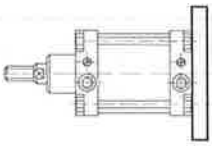
Foot mounting, Type HN



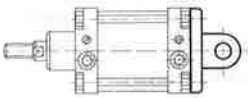
Flange mounting, Type FN at front



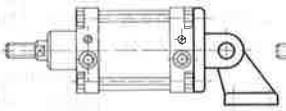
Flange mounting, Type FN at rear



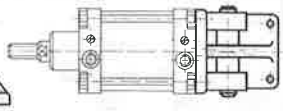
Swivel flange, Type SN



Swivel flange, Type SN, with clevis foot mounting Type LN



Swivel flange, Type SN, with clevis foot mounting Type LSN (lateral displacement max. 5°)



Order code (see overleaf)	Part No. + DN + piston dia. + stroke length + end position cushioning + special design *Example: piston dia. 200 mm, stroke length 300 mm, adjustable end position cushioning = 6783 DN-200-300-PPV*
Medium	Compressed air, lubricated or unlubricated
Design	Piston cylinder
Max. permissible operating pressure	10 bar
Temperature range	–20 to +80 °C
Materials	Bearing cap and cover cap: cast aluminium, painted (dia. 250 and 320: GGG-42); cylinder barrel: precision steel (dia. 250 and 320**: glass-fibre reinforced plastic), painted; piston rod: C-45 chromed, rolled thread (dia. 125, X 20 Cr 13); seals: perbunan
Weights	See overleaf

Piston dia. mm	Stroke length* min – max. mm	Thrust at 6 bar*** N	(≈ kp)	Return force*** at 6 bar N	(≈ kp)	Connection	Cushioning length mm
125	1 to 2000	7360	(736)	6880	(688)	G 1/2	45
160	1 to 2000	12060	(1206)	11110	(1111)	G 3/4	50
200	1 to 2000	18840	(1884)	17890	(1789)	G 3/4	50
250	10 to 1100	29450	(2945)	28280	(2828)	G 1	58
320	10 to 1100	48250	(4825)	46380	(4638)	G 1	67

* Stroke tolerances as per DIN ± 1.3 mm ** Also available in special design with steel barrel *** Theoretical values