

Standard Norm Cylinder DIN 24554



Functional Modes

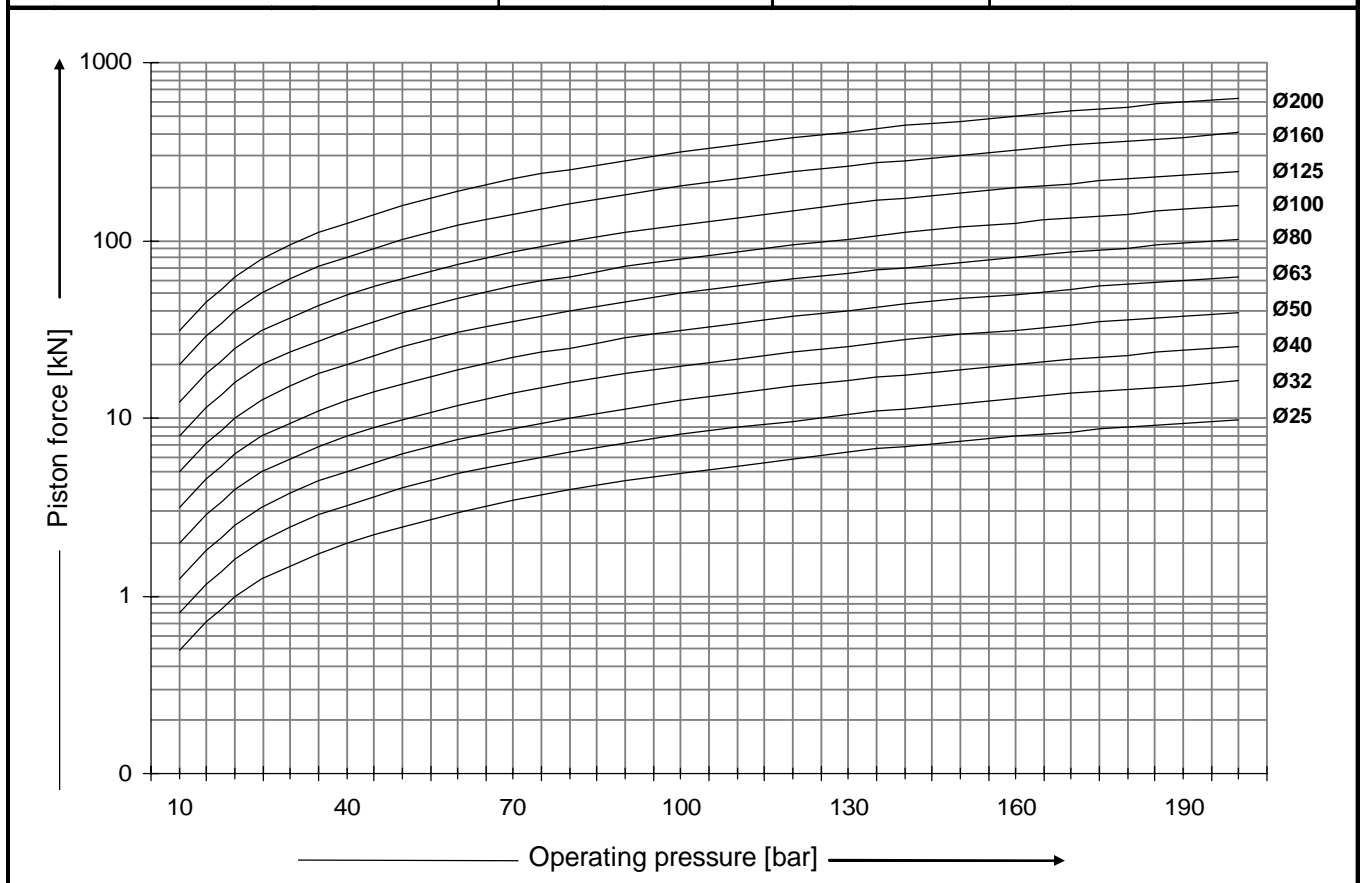
Symbol per DIN 24300	Functional mode	Description	Symbol per DIN 24300	Functional mode	Description
	001	Single acting pushing		004	Double acting, end-of-stroke damper on both sides
	002	Single acting pulling		005	Double acting, end-of-stroke damper on rod side
	003	Double acting		006	Double acting, end-of-stroke damper on bottom side

Cylinder with continuous piston rod (without description in DIN24552)

	120.003	Double acting, nondifferential cylinder
	120.004	Double acting, nondifferential cylinder, end-of-stroke damper on both sides
	120.005	Double acting, nondifferential cylinder, end-of-stroke damper on one

Piston force diagram

Formula for calculation:			
<ul style="list-style-type: none"> Force on piston side (pushing): $F = \frac{p \cdot D^2 \cdot \pi}{40000}$ 	<ul style="list-style-type: none"> required piston-\varnothing : 	$D_{\text{erf}} = \sqrt{\frac{F \cdot 40000}{p \cdot \pi}}$ $p_{\text{erf}} = \frac{F \cdot 40000}{\pi \cdot D^2}$	F ... Piston force [kN] p ... Operating press. [bar] D ... Piston- \varnothing [mm] d ... Rod- \varnothing [mm].
<ul style="list-style-type: none"> Force on rod side (pulling): $F = \frac{p \cdot (D^2 - d^2) \cdot \pi}{40000}$ 	<ul style="list-style-type: none"> required operating pressure: 		



Design subject to change

* Revision A * 19.01.2000