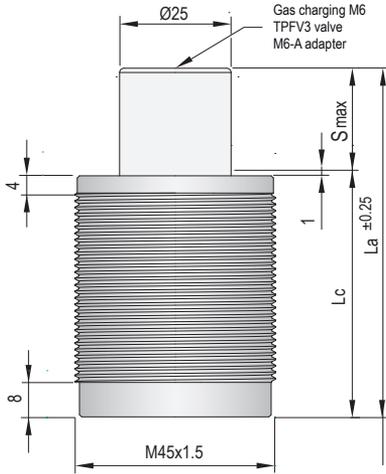




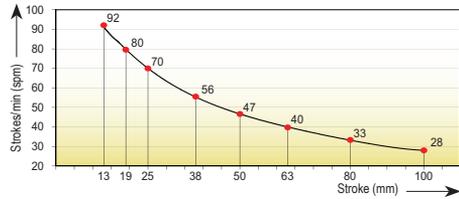
VDI SAFETY



- i** Pressure medium Nitrogen (N₂)
- Max. charging pressure 150 Bar
- Min. charging pressure 35 Bar
- Rod seal area 4,91 cm²
- Operating temperature 0°C - 80°C
- Force increase by temperature 0,33 %/°C
- Max. stem speed 1,6 m/s
- Maintenance kit Kit R45



Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm		Fa daN		F daN		Fc daN		P Bar		V l		Kg
TPR 45x13	12,7	57,4	44,7				1145		1220				0,016	0,40	
TPR 45x19	19	70	51				1160		1240				0,023	0,47	
TPR 45x25	25	82	57				1165		1250				0,030	0,50	
TPR 45x38	38	108	70		740 ±5% (20°C)		1175		1255		150 (20°C)		0,045	0,61	
TPR 45x50	50	132	82				1175		1260				0,059	0,69	
TPR 45x63	63	159	96				1180		1265				0,074	0,80	
TPR 45x80	80	192	112				1180		1265				0,094	0,91	
TPR 45x100	100	232	132				1180		1265				0,117	1,10	

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP CYLINDER

STOP CYLINDER

STOP CYLINDER

TPSR

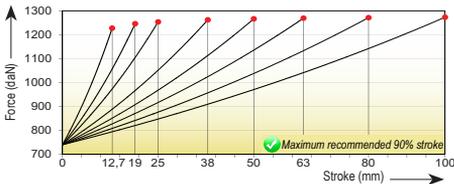
TPSRs

TPNS

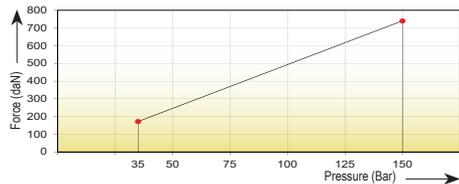
TPHT



Force/stroke ratio



Initial force/charging pressure ratio



Assembly possibilities



Follow guidelines
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FR 45



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