



VDI SAFETY



MICRO

TITAN

TPH

TPS

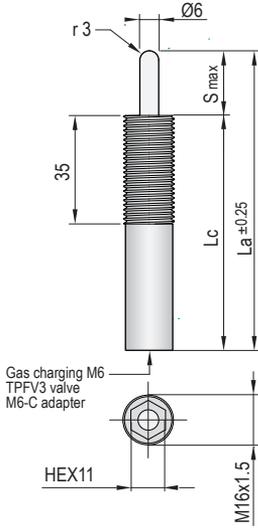
TPSP

TPF

TPK

TPC

TPR

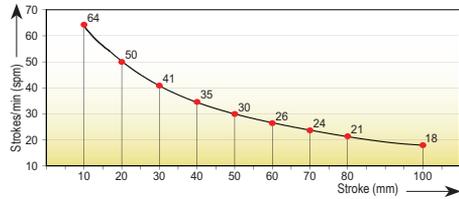


Pressure medium	Nitrogen (N ₂)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	0,28 cm ²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1,6 m/s
Maintenance kit	Kit R16

VDI 3004



Maximum strokes / minute (at 20°C)



Code	Smax mm	La mm	Lc mm	V l	Kg
TPR 16x10	10	80	70	0,004	0,06
TPR 16x20	20	100	80	0,005	0,06
TPR 16x30	30	120	90	0,006	0,07
TPR 16x40	40	140	100	0,007	0,08
TPR 16x50	50	160	110	0,008	0,08
TPR 16x60	60	180	120	0,009	0,09
TPR 16x70	70	200	130	0,010	0,09
TPR 16x80	80	220	140	0,011	0,11
TPR 16x100	100	260	160	0,013	0,11

Code	Fa daN	Fc daN	P Bar
TPR 16x ... F10	10 (±5%)	≈ 12	35
TPR 16x ... F15	15 (±5%)	≈ 15	50
TPR 16x ... F20	20 (±5%)	≈ 25	70
TPR 16x ... F25	25 (±5%)	≈ 30	90
TPR 16x ... F30	30 (±5%)	≈ 35	110
TPR 16x ... F35	35 (±5%)	≈ 45	125
TPR 16x ... F40	40 (±5%)	≈ 50	140
TPR 16x ... F45	45 (±5%)	≈ 55	160
TPR 16x ... F50	50 (±5%)	≈ 60	175

How to order

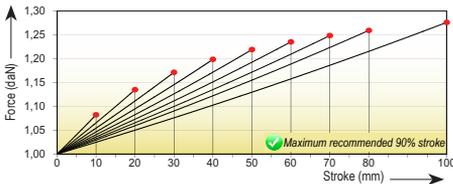
TPR 16 x 20 F50

Model

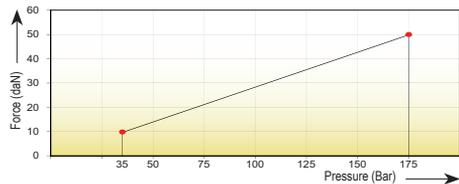
Stroke

Force

Force/stroke ratio



Initial force/charging pressure ratio



Assembly possibilities



Follow guidelines
Page 287



THREADED



FR 16



FR 16



TPR 16 KEY