

VDI SAFETY



i

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP CYLINDER

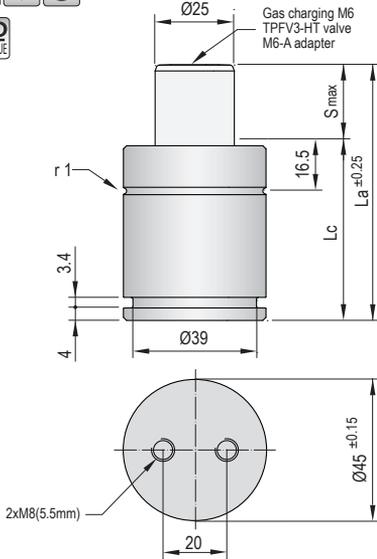
STOP CYLINDER

TPSR

TPSRS

TPNS

TPHT



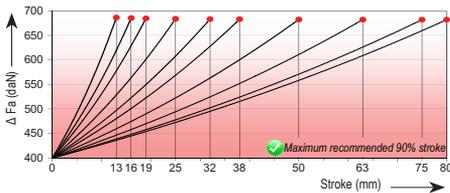
i Pressure medium **Nitrogen (N₂)**

Max. charging pressure	80 Bar
Min. charging pressure	35 Bar
Rod seal area	4,91 cm ²
Operating temperature	0°C - 120°C
Force increase by temperature	0,33 %/°C
Max. stem speed	0,5 m/s
Maintenance kit	Kit HT45
Max. strokes / min	10 - 25 spm
Life service	300.000 + 500.000 strokes

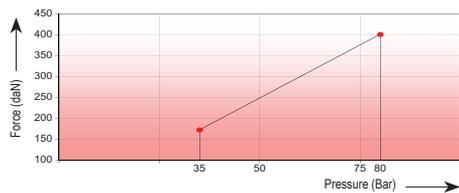


Code	Smax mm	La mm	Lc mm	Fa daN	90% F daN	100% Fc daN	P Bar	V l	Kg
TPHT 45x13	13	58	45	400 ±5% (20°C)	630	675	80 (20°C)	0,015	0,35
TPHT 45x16	16	64	48		630	675		0,019	0,39
TPHT 45x19	19	70	51		630	670		0,022	0,40
TPHT 45x25	25	82	57		625	670		0,030	0,44
TPHT 45x32	32	96	64		625	670		0,038	0,47
TPHT 45x38	38	108	70		625	670		0,045	0,50
TPHT 45x50	50	132	82		625	670		0,059	0,59
TPHT 45x63	63	158	95		625	670		0,075	0,65
TPHT 45x75	75	182	107		625	670		0,089	0,80
TPHT 45x80	80	192	112		625	670		0,095	0,85

Force/stroke ratio



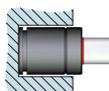
Initial force/charging pressure ratio



Assembly possibilities



Follow guidelines
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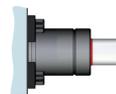
DROP-IN



SCREWS



FS 45 - FSC 45



FP 45 - FPR 45