





READY DESIGN-TITE® H Series Maximum Force Line Nitrogen Gas (N₂) Springs

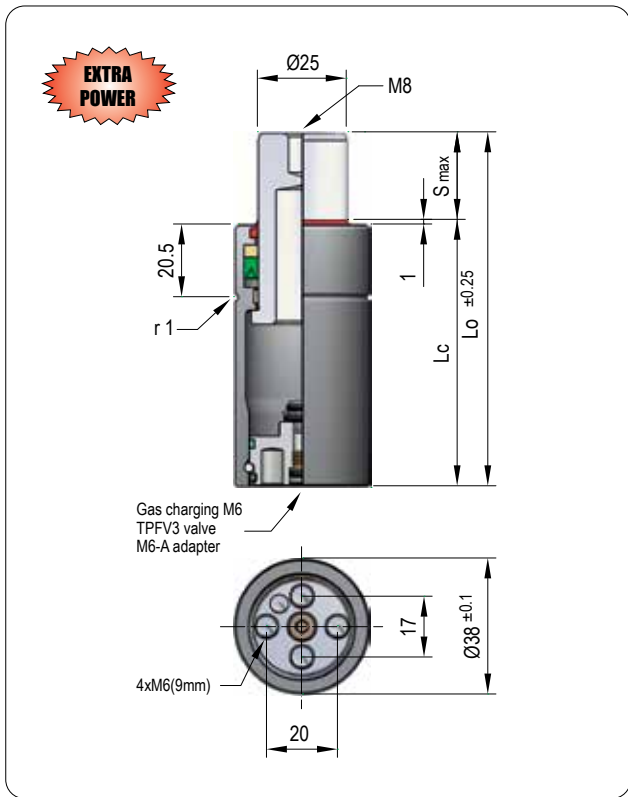
Every Maximum Force gas spring provides the maximum force in a self-contained gas spring with the increased on-contact force of a bore seal cylinder.

Body Diameter: 38mm to 75mm.
Open Force: 1900 lbs to 9675 lbs.
Closed Force: 3300 lbs to 16,550 lbs



MODEL	ØBody mm	Strokes mm	 Fo daN		 ACTIVE SAFETY	
H-850	38	12 - 80	850		✓	
H-1000	38	10 - 80	1000		✓	
H-1250	45	12 - 80	1250		✓	
H-1700	50	12 - 80	1700		✓	
H-2000	50	15 - 80	2000		✓	
H-2800	63	12 - 80	2800		✓	
H-4300	75	12 - 80	4300		✓	

H-850



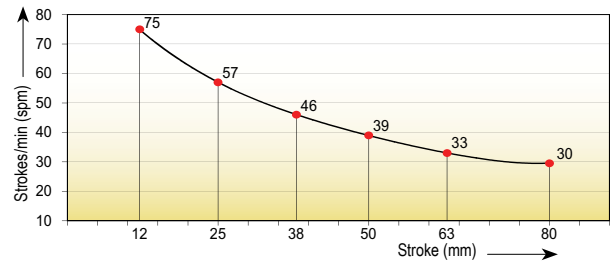
Pressure medium	Gas Nitrogen (N₂)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	4,91 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit H850



VDI SAFETY

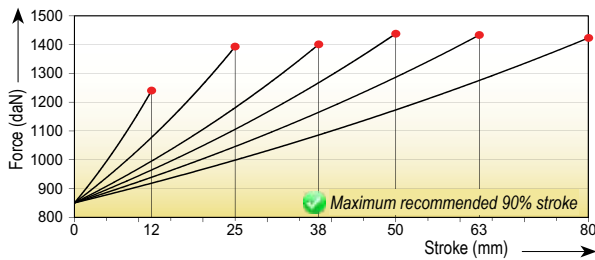


Maximum strokes / minute (at 20°C)

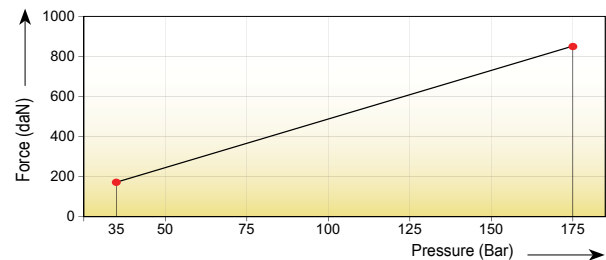


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
H-850x12	12	74	62	850 ±5% (20°C)	1200	1255	175 (20°C)	0,019	0,40
H-850x25	25	100	75		1325	1405		0,031	0,45
H-850x38	38	130	92		1330	1415		0,047	0,52
H-850x50	50	155	105		1360	1455		0,060	0,64
H-850x63	63	185	122		1355	1450		0,076	0,75
H-850x80	80	225	145		1350	1440		0,098	0,86

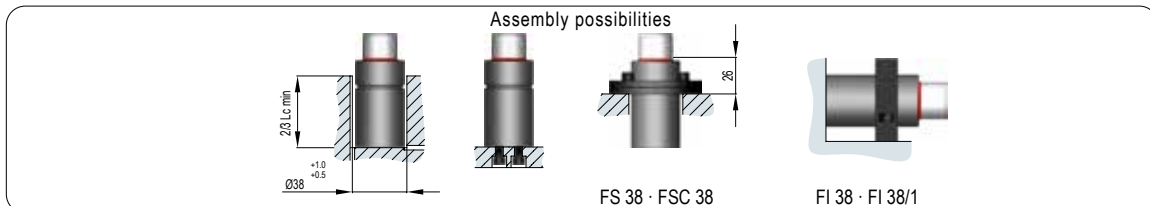
Force/stroke ratio



Initial force/charging pressure ratio

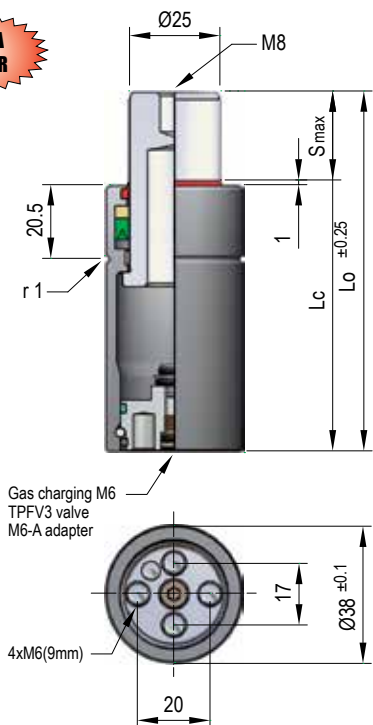


Assembly possibilities



Product improvement through research and development is an ongoing process. All specifications are subject to change without notice.

EXTRA POWER



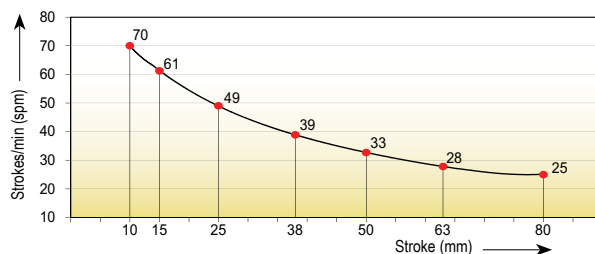
Pressure medium	Gas Nitrogen (N₂)
Max. charging pressure	190 Bar
Min. charging pressure	35 Bar
Rod seal area	4,91 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit H1000



VDI SAFETY

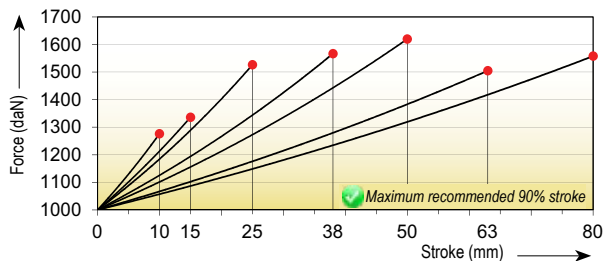


Maximum strokes / minute (at 20°C)

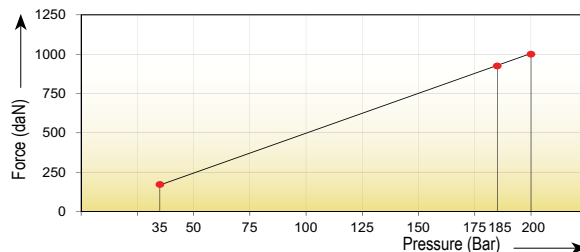


MODEL	S _{max} mm	L _o mm	L _c mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
H-1000x10	10	75	65	1000 ±5% (20°C)	1245	1280	190 (20°C)	0,023	0,35
H-1000x15	15	85	70		1295	1340		0,029	0,42
H-1000x25	25	105	80		1450	1530		0,035	0,50
H-1000x38	38	135	97		1485	1570		0,052	0,57
H-1000x50	50	160	110		1530	1620		0,064	0,69
H-1000x63	63	205	142		1435	1505		0,092	0,80
H-1000x80	80	240	160		1480	1560		0,110	0,91

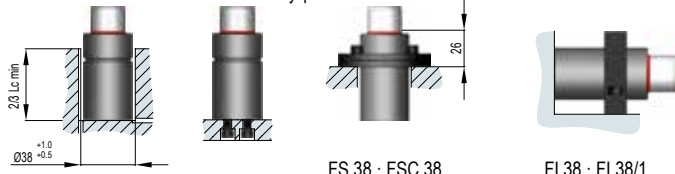
Force/stroke ratio



Initial force/charging pressure ratio



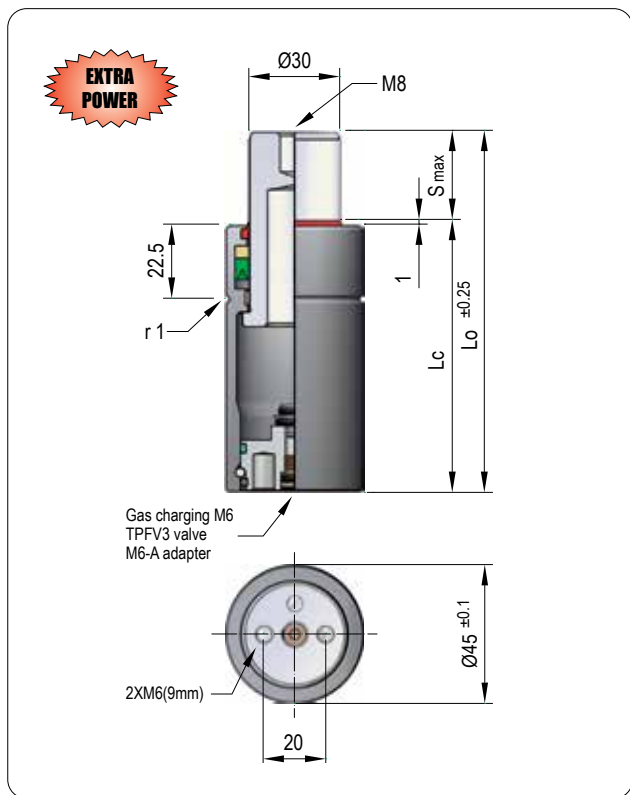
Assembly possibilities



FS 38 · FSC 38

FI 38 · FI 38/1

H-1250



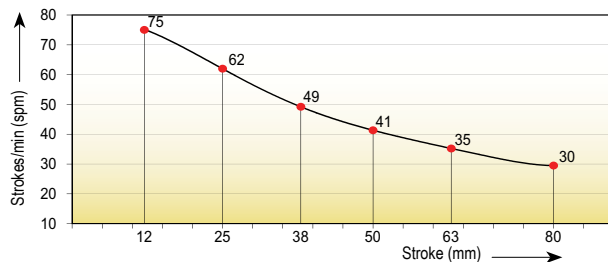
Pressure medium	Gas Nitrogen (N₂)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	7,07 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit H1250



VDI SAFETY

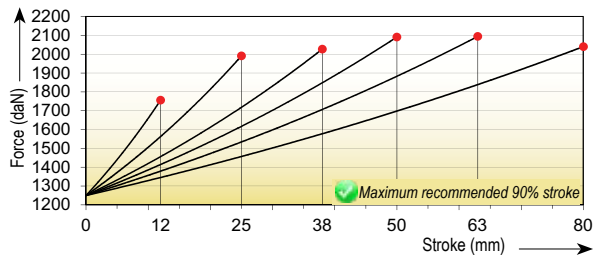


Maximum strokes / minute (at 20°C)

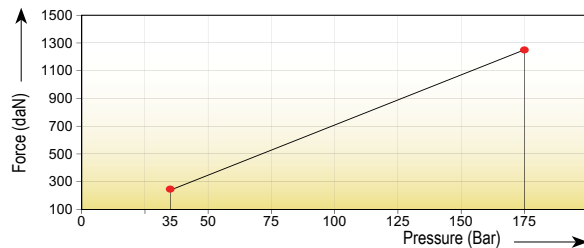


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
H-1250x12	12	79	67	1250 ±5% (20°C)	1670	1740	175 (20°C)	0,029	0,62
H-1250x25	25	105	80		1860	1970		0,047	0,75
H-1250x38	38	135	97		1890	2005		0,070	0,83
H-1250x50	50	160	110		1940	2070		0,088	0,91
H-1250x63	63	190	127		1940	2075		0,110	1,10
H-1250x80	80	230	150		1900	2020		0,146	1,17

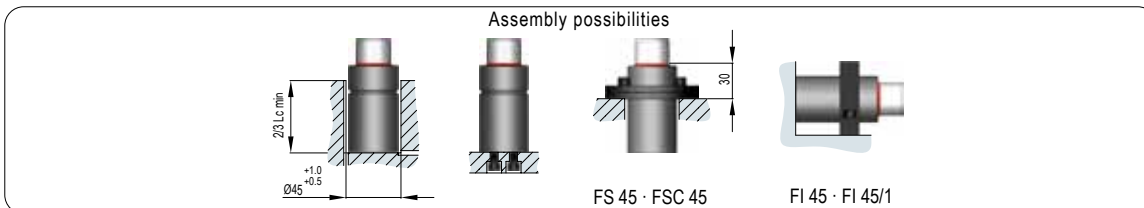
Force/stroke ratio



Initial force/charging pressure ratio

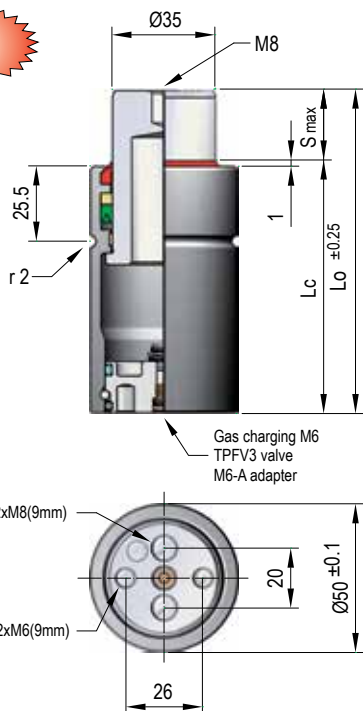


Assembly possibilities



H-1700

EXTRA POWER



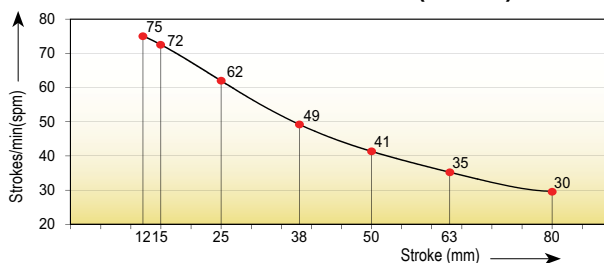
Pressure medium	Gas Nitrogen (N ₂)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	9,62 cm ²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit H1700



VDI SAFETY

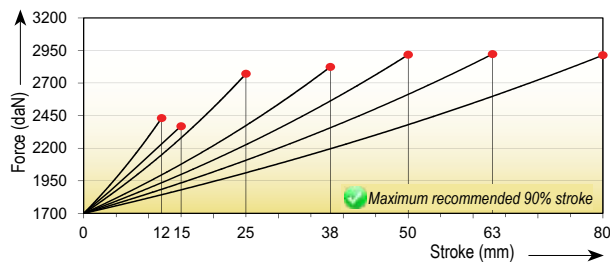


Maximum strokes / minute (at 20°C)

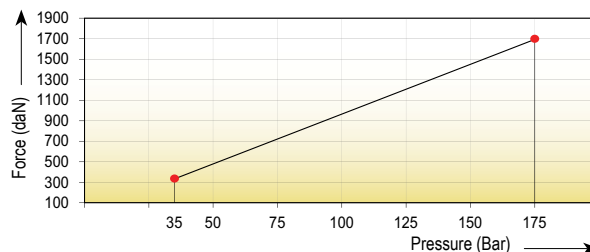


MODEL	S _{max} mm	L _o mm	L _c mm	Fo daN	90% F daN	100% F _c daN	P Bar	V l	Kg
H-1700x12	12	84	72	1700 ±5% (20°C)	2310	2410	175 (20°C)	0,039	0,82
H-1700x15	15	95	80		2255	2345		0,051	0,86
H-1700x25	25	110	85		2580	2745		0,062	0,91
H-1700x38	38	140	102		2625	2795		0,092	1,12
H-1700x50	50	165	115		2695	2890		0,115	1,25
H-1700x63	63	195	132		2700	2895		0,145	1,35
H-1700x80	80	235	155		2695	2885		0,185	1,48

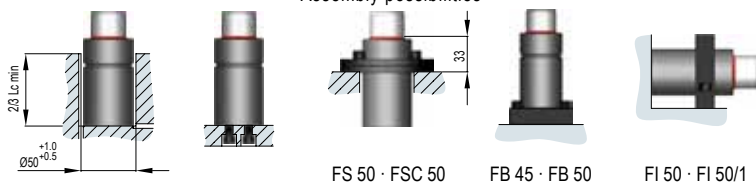
Force/stroke ratio



Initial force/charging pressure ratio

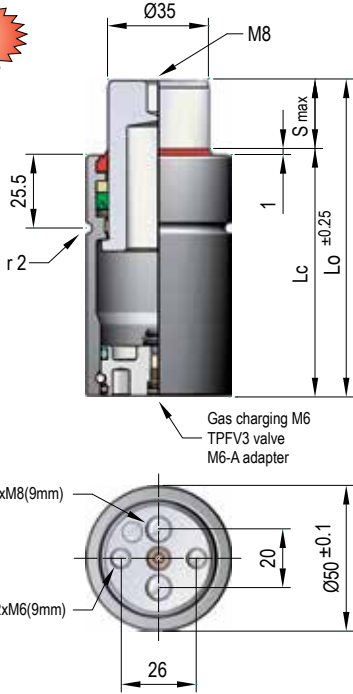


Assembly possibilities



Product improvement through research and development is an ongoing process. All specifications are subject to change without notice.

EXTRA POWER



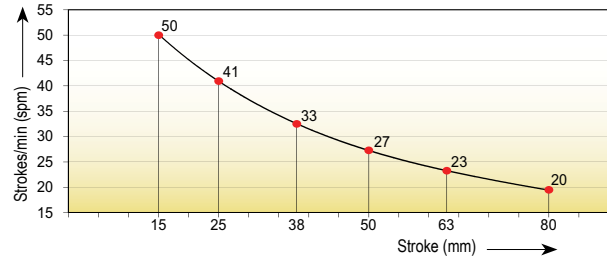
Pressure medium	Gas Nitrogen (N₂)
Max. charging pressure	195 Bar
Min. charging pressure	35 Bar
Rod seal area	9,62 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit H2000



VDI SAFETY

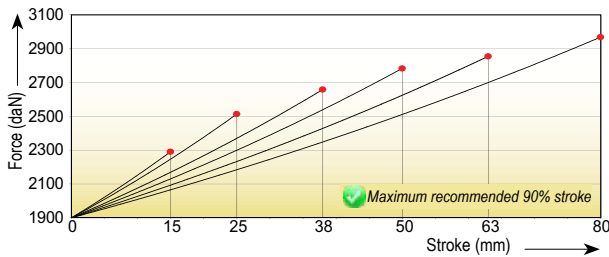


Maximum strokes / minute (at 20°C)

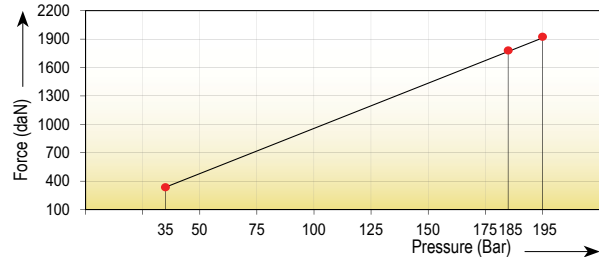


MODEL	S _{max} mm	L _o mm	L _c mm	F _o daN	90% F daN	100% F _c daN	P Bar	V l	Kg
H-2000x15	15	115	100	1925 ±5% (20°C)	2240	2285	195 (20°C)	0,085	0,80
H-2000x25	25	135	110		2430	2510		0,099	1,02
H-2000x38	38	165	127		2550	2650		0,128	1,32
H-2000x50	50	190	140		2655	2775		0,152	1,45
H-2000x63	63	220	157		2645	2765		0,193	1,55
H-2000x80	80	255	175		2805	2960		0,214	1,68

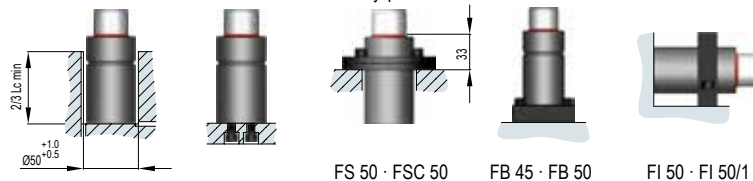
Force/stroke ratio



Initial force/charging pressure ratio



Assembly possibilities



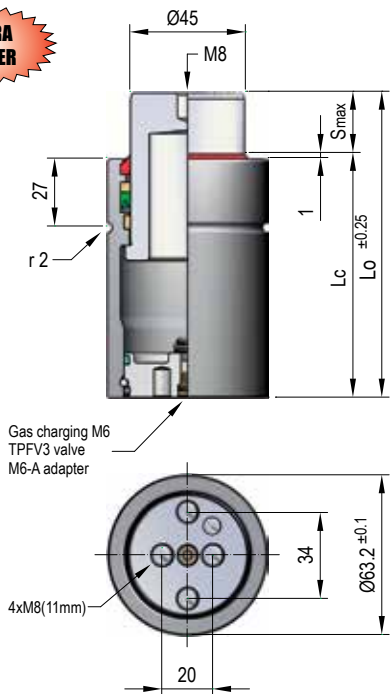
FS 50 · FSC 50

FB 45 · FB 50

FI 50 · FI 50/1

H-2800

EXTRA POWER



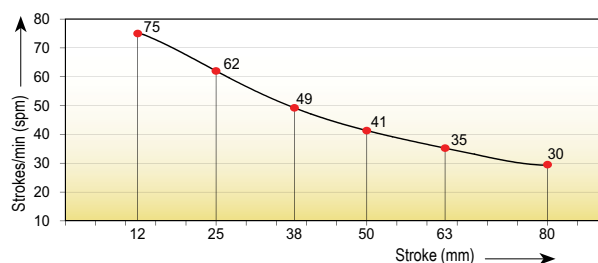
Pressure medium	Gas Nitrogen (N₂)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	15,90 cm²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit H2800



VDI SAFETY

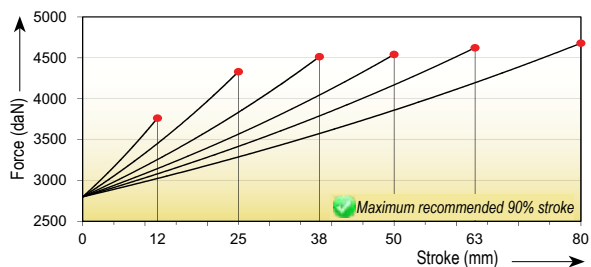


Maximum strokes / minute (at 20°C)

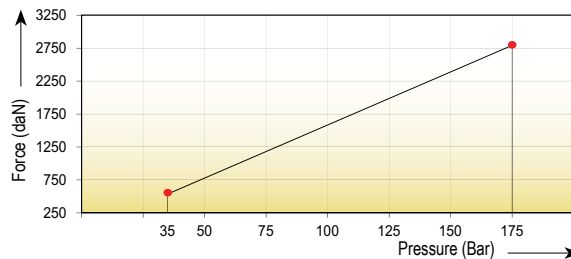


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
H-2800x12	12	94	82	2800 ±5% (20°C)	3615	3740	175 (20°C)	0,075	1,31
H-2800x25	25	120	95		4080	4305		0,112	1,52
H-2800x38	38	150	112		4230	4485		0,159	1,85
H-2800x50	50	175	125		4250	4515		0,207	1,97
H-2800x63	63	210	147		4315	4595		0,254	2,05
H-2800x80	80	250	170		4360	4650		0,317	2,22

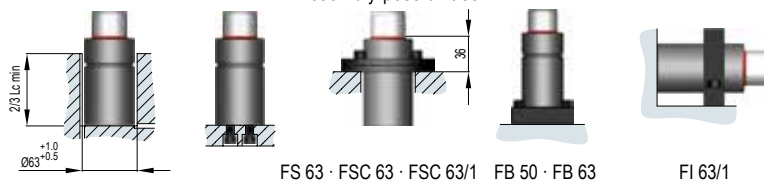
Force/stroke ratio



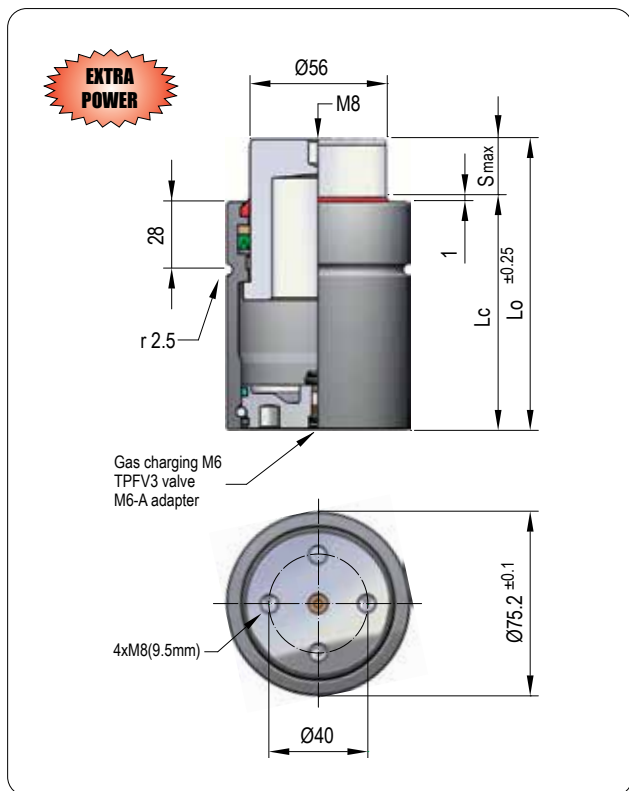
Initial force/charging pressure ratio



Assembly possibilities



H-4300



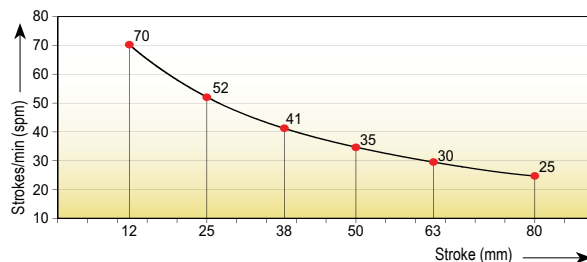
Pressure medium	Gas Nitrogen (N ₂)
Max. charging pressure	175 Bar
Min. charging pressure	35 Bar
Rod seal area	24,63 cm ²
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	25 m/min
Maintenance kit	Kit H4300



VDI SAFETY

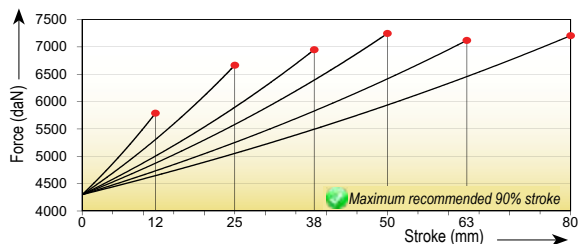


Maximum strokes / minute (at 20°C)

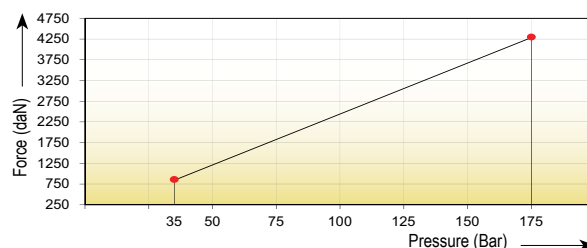


MODEL	Smax mm	Lo mm	Lc mm	Fo daN	90% F daN	100% Fc daN	P Bar	V l	Kg
H-4300x12	12	94	82	4300 ±5% (20°C)	5610	5800	175 (20°C)	0,115	1,82
H-4300x25	25	120	95		6335	6680		0,174	2,10
H-4300x38	38	150	112		6560	6965		0,246	2,42
H-4300x50	50	175	125		6795	7265		0,303	2,61
H-4300x63	63	210	147		6700	7135		0,392	2,70
H-4300x80	80	250	170		6765	7225		0,489	3,05

Force/stroke ratio



Initial force/charging pressure ratio



Assembly possibilities

