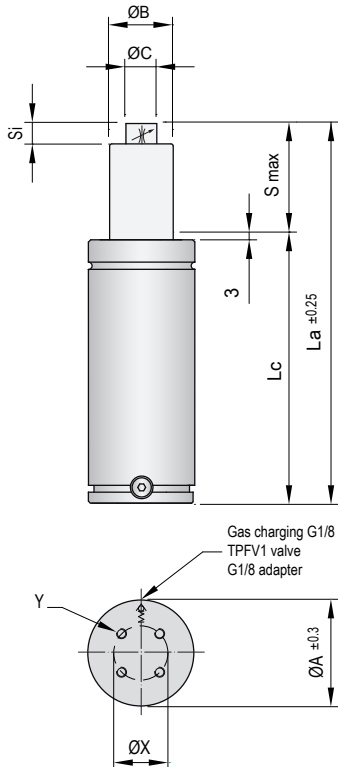
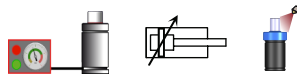


TPNSR gas springs are characterised by two functions:

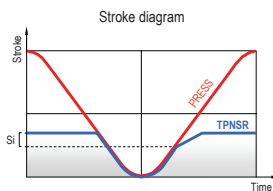
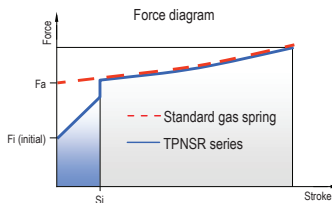
- ▶ Reduction of initial working stroke force
- ▶ Reduction of stem speed during the expansion in the final stroke phase (Si)



Pressure medium	Gas Nitrógeno (N ₂)
Max. charging pressure	150 Bar
Min. charging pressure	50 Bar
Operating temperature	0°C - 80°C
Force increase by temperature	0,33 %/°C
Max. stem speed	1 m/s



Operation Graph



Code	Smax mm	La mm	Lc mm	Fi daN	Fa daN	Fc daN	Si mm	$\varnothing A$ mm	$\varnothing B$ mm	$\varnothing C$ mm	$\varnothing X$ mm	Y	P Bar	spm
TPNSR 1500x125	125	360	235		1500								95 (20°C)	22
TPNSR 1500x160	160	430	270	750	$\pm 5\%$	≈ 2200	15	75	45	22	40	4 x M8	(20°C)	18
TPNSR 1500x200	200	510	310											14
TPNSR 3000x125	125	370	245		3000								105 (20°C)	18
TPNSR 3000x160	160	440	280	1200	$\pm 5\%$	≈ 4500	24	95	60	32	60	4 x M8	(20°C)	15
TPNSR 3000x200	200	520	320											12

Assembly possibilities

