



Micro Hydraulic

The small power-pack

With the new micro-hydraulic cylinders, high forces can be realized in a very compact construction. With the standard piston diametres from 13 - 24 mm and a maximum pressure of 200 bar, forces up to 9.000N can be achieved. The stroke will be individually adjusted according to customer's requirements.

By using the numerous components of the gas spring manufacture, a high flexibility combined with shortest delivery times can be offered

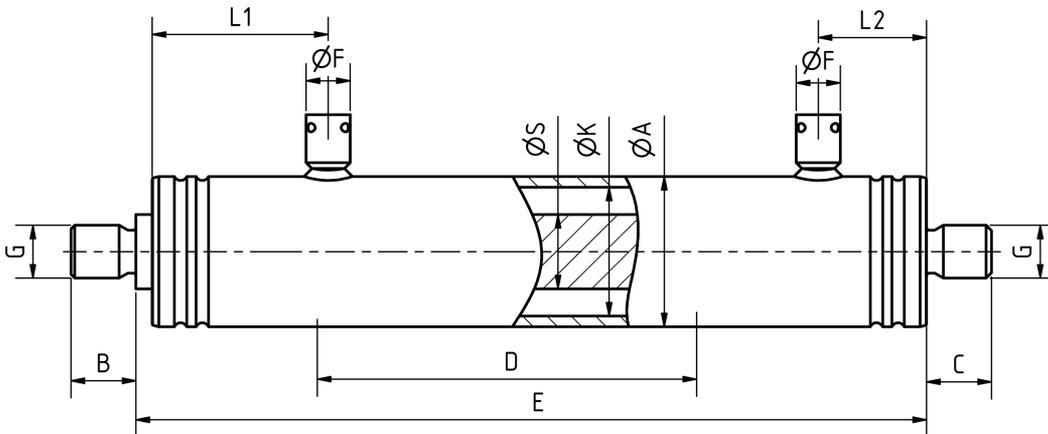
Facts:

Piston diametre:	13, 16, 19 and 24 mm
Stroke:	30 - 250 mm
Function:	double acting
Operating pressure:	max. 200 bar (max. 10 sec, 15% duty ratio)
Extension force:	up to 9.000N
Fluid:	Mineral oil HL - HLP acc. DIN51524, further on request
Fluid temperature:	-20°C to 80°C

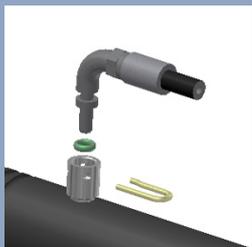
Piston diametre	Connecting part piston rod	Connecting part cylinder	Diametre piston rod/ cylinder	Stroke	Length E (retracted)	Index*
HZ19 -	J0	J0	2	150	214	001
HZ13 = Ø 13	see Gas Spring catalogue	see Gas Spring catalogue	6 = 6/15	30-50	stroke + 55	* only necessary for repeating orders
HZ16 = Ø 16			0 = 8/19	40-100	stroke + 61	
HZ16 = Ø 16			P = 10/19	40-190	stroke + 61	
HZ19 = Ø 19			2 = 10/22	50-150	stroke + 64	
HZ24 = Ø 24			5 = 14/28	50-250	stroke + 76	

The flyer is subject to technical alterations and printing mistakes.

Dimensions:



ØK piston	ØS piston rod	D stroke [mm]	E retracted [mm]	B	C	G	L1	max force [N]	max traction force [N]	L2	ØA	ØF
13	6	30-50	stroke + 55	9	9	M6	24,5	2.654	2.089	16	15	9
16	8	40-100	stroke + 61	12	12	M8	27,5	4.021	3.015	18	19	9
16	10	40-190	stroke + 61	12	12	M8	27,5	4.021	2.450	18	19	9
19	10	50-150	stroke + 64	12	12	M8	28,5	5.670	4.099	18	22	9
24	14	50-250	stroke + 76	12	12	M10	32,5	9.047	5.969	20	28	9



Connectors:

Connectors for standard high pressure tubes with plug-in coupling DN2

Maximum stroke lengths:

The maximum stroke length will be determined in relation to the force of the cylinders in order to avoid the bending of the cylinders

ØK piston	ØS piston rod	max stroke at 80 bar	max stroke at 100 bar	max stroke at 120 bar	max stroke at 140 bar	max stroke at 160 bar	max stroke at 180 bar	max stroke at 200 bar
13	6	125	105	91	78	66	58	50
16	8	200	172	152	134	120	107	100
16	10	350	305	270	245	222	205	190
19	10	290	246	220	198	180	165	150
24	14	450	395	352	318	290	266	250