

### Properties

<b>Design</b>	Plunger cylinders with attachment elements
<b>Operating pressure</b>	max. 200 bar (acc. DIN EN 982)
<b>Test pressure</b>	max. 240 bar (acc. DIN EN 982)
<b>Temp. range</b>	Standard version -15 °C to +80 °C
<b>Media</b>	HLP fluids
<b>Material</b>	Piston rod: Steel 20MnV6, Chrome 25 µm ±/ 5 Piston rod: Resistance for 120 h in the NSS test according to ISO 3768 Piston rod guide: Steel 9SMn28 Oil filler neck: Steel 9SMn28 Polished cylinder barrel: ST 52.3 DIN 2393-ISO H9 Cylinder base: FE 510-A105 Nut: Steel 8UNI EN20898/2 Gasket TPM: NBR Piston: Steel 9SMn28 Gasket OR: NBR Fluorosil Viton Gasket TSE-TTS-TTI/L: NBR + fabric / polyurethane Gasket GHM-GHK: NBR / polyurethane



### Note

Piston speed based on standard seals: Max. 25m/min - 0.42m/sec.

Piston speed to the end positions: max. 6m/min - 0.10m/sec.

For these standard cylinders, it is recommended not to weld any fastenings to the cylinder liner (e.g. cardan mountings) as this could distort it.

### Description

Our hydraulic cylinders and their components are designed for standard applications in industry and agriculture. They can be used only in some circumstances for applications in construction machinery. If this is your intention, please contact our technical personnel. The cylinders conform to the technical specifications in the catalogue or are designed to customers' specifications (approval drawing).

Please observe the stipulations of EN ISO 4413 "Safety requirements for fluid power systems and their components" as well as specifications and safety requirements based on statutory regulations when selecting, installing and operating the cylinders.

Item	Identification	Ø S (mm)	Stroke (mm)	Z (mm)	Ø E (mm)	M (mm)	Ø H (mm)	L (mm)	Ø F (mm)	Ø G (mm)	Weight (kg)
HK HFRT 1 25 100		25	100	190	3/8"	40,00	22	35	14,00	40	1,63
HK HFRT 1 25 150		25	150	240	3/8"	40,00	22	35	14,00	40	2,04
HK HFRT 1 25 200		25	200	290	3/8"	40,00	22	35	14,00	40	2,44
HK HFRT 1 25 250		25	250	340	3/8"	40,00	22	35	14,00	40	2,85
HK HFRT 1 25 300		25	300	390	3/8"	40,00	22	35	14,00	40	3,26
HK HFRT 2 30 200		30	200	300	3/8"	42,00	27	37	16,00	50	3,61
HK HFRT 2 30 250		30	250	350	3/8"	42,00	27	37	16,00	50	4,16
HK HFRT 2 30 300		30	300	400	3/8"	42,00	27	37	16,00	50	4,72
HK HFRT 2 30 350		30	350	450	3/8"	42,00	27	37	16,00	50	5,27
HK HFRT 2 30 400		30	400	500	3/8"	42,00	27	37	16,00	50	5,82
HK HFRT 2 30 550		30	550	650	3/8"	42,00	27	37	16,00	50	7,30
HK HFRT 3 40 200		40	200	330	3/8"	47,00	37	49	23,00	60	6,00
HK HFRT 3 40 250		40	250	380	3/8"	47,00	37	49	23,00	60	6,84
HK HFRT 3 40 300		40	300	430	3/8"	47,00	37	49	23,00	60	7,67
HK HFRT 3 40 350		40	350	480	3/8"	47,00	37	49	23,00	60	8,49
HK HFRT 3 40 400		40	400	530	3/8"	47,00	37	49	23,00	60	9,32
HK HFRT 3 40 550		40	550	680	3/8"	47,00	37	49	23,00	60	11,70
HK HFRT 3 40 700		40	700	830	3/8"	47,00	37	49	23,00	60	14,10
HK HFRT 4 50 300		50	300	460	3/8"	50,00	47	65	25,50	65	11,80
HK HFRT 4 50 400		50	400	560	3/8"	50,00	47	65	25,50	65	14,00
HK HFRT 4 50 550		50	550	710	3/8"	50,00	47	65	25,50	65	17,50
HK HFRT 4 50 700		50	700	860	3/8"	50,00	47	65	25,50	65	21,00

Ø S = piston rod diameter