

English translation. This datasheet was translated from the manufacturer's original German document and may contain errors or omissions. For binding specifications, refer to the original manufacturer documentation or contact AES Waterblasters.

KFN - High-Pressure Plunger Pump

Stainless steel version, pump head in AISI 420 / 1.4021, chemically nickel-plated

Construction

- Pump body made of an aluminium plain-bearing alloy
- Reversible gear drive with patented oil-cooling pockets
- Crankshaft in alloy steel: hardened, tempered and nitrided
- Crankshaft bearings: SKF roller bearings, generously sized
- Connecting rods: forged, plain-bearing mounted
- Crosshead guide pistons: ground and hard chrome-plated
- Plunger seals in sintered PTFE material, with cooling
- Plungers: solid ceramic (aluminium oxide)
- Valve assembly entirely in special stainless steel
- Pressure / flow ratings: see table

Pressure / flow variants

Model		KFN 28	KFN 30	KFN 32	KFN 36A	KFN 36B	KFN 36C	KFN 40
Flow rate	<i>l/min</i>	93	106	120	122	137	153	170
Max. operating pressure	<i>bar</i>	210	200	180	160	140	130	110
Drive speed	<i>rpm</i>	1000	1000	1000	800	900	1000	900
Plunger stroke	<i>mm</i>	50						
Drive power	<i>kW</i>	37.3	40.5	41.3	37.0	37.0	38.0	35.7
Max. inlet temperature	<i>°C</i>	85						
Max. inlet pressure	<i>bar</i>	3						
Pumped medium		Water (other media on request)						
Oil capacity	<i>L</i>	3.8						
Weight	<i>kg</i>	70						

Flow rate stated at 100% volumetric efficiency.

Materials

Item	Component	Material
1	Pump head	Stainless steel AISI 420 / 1.4021, chemically nickel-plated
2	Valve cover	Stainless steel AISI 420 / 1.4021, chemically nickel-plated
3	Valve plug	Stainless steel AISI 303 / 1.4305
4	Valve cage	Stainless steel AISI 630 / 1.4542
5	Valve spring	Stainless steel AISI 302 / 1.4300
6	Valve plate	Stainless steel AISI 303 / 1.4005
7	Valve seat	Stainless steel AISI 303 / 1.4005
8	Plunger bolt	Stainless steel AISI 416 / 1.4005
9	Plunger	Solid ceramic (aluminium oxide)
10	Packing, high-pressure	Sintered PTFE material
11	Pressure ring	Stainless steel AISI 316L / 1.4435

All O-rings and seals in NBR or EPDM.

Drive options

- Optional gearbox in three ratios: 1.25 : 1, 1.50 : 1, 1.83 : 1
- With flange for direct mounting of a hydraulic motor
- With hollow shaft for an SAE C hydraulic motor
- With second shaft stub as power take-off