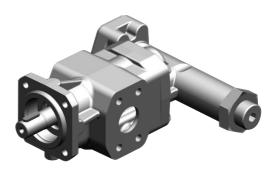
KRACHT





Transfer Gear Pumps

KF 32...80

with T-Valve



Description

KF gear pumps are used for pumping a wide variety of fluids.

KF gear pumps are distinguished especially by their wide range of variants which are assembled as required on the modular principle and also permit subsequent upgrade.

The pumps are also suitable for media with low lubricating properties. The KF 32...80 with T-valve comprised an attached pressure control valve with a separate tank connection. By a conformist damping the valve offers a good control characteristic and a good dynamic at a free from vibration operation in all working points of the pump.

The standard pump housing sections are of gray cast iron. The valve housing sections are of spheroidal cast iron.

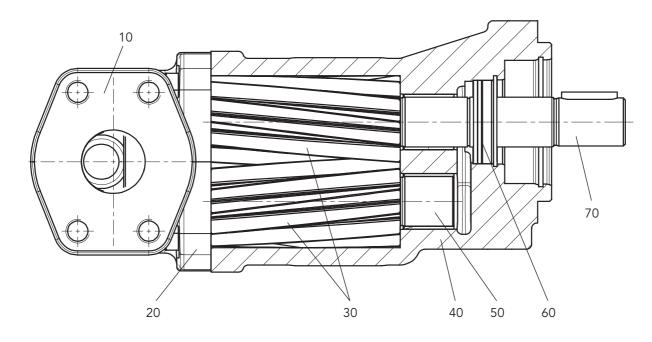
The gear units are manufactured from high-strength case-hardening steel, hardened and mounted in special multi-compound plain bearing bushes.

The standard drive shaft is sealed by rotary shaft lip-type seal. All pump sizes incorporate helical tooth system. This feature combined with special gear geometry, results in low noise levels and reduced pressure pulsation.

Operating Notes

- The fluids should ensure a certain minimum lubricating properties, should not contain solids and should be chemically compatible.
- Avoid dry operation.
- In order to prevent excessive overpressure, is a safety valve provided in the system.
- The pressure relief valve attached on the pump can be used for the pressure regulation of the pump, if the return conduit on the valve is connected directly with the storage tank.

Construction



- 10 Tank connection
- 20 T-Valve
- 30 Gear
- 40 Pump housing
- 50 Bearing bush
- 60 Shaft seal
- 70 Drive shaft end



Materials

Pump housing	EN-GJL-250 (GG 25) or EN-GJS-400-15 (GGG 40)
Valve	EN-GJS-400-15 (GGG 40)
Gear	Steel 1.7139
Bearing bush	DU (multi-layer friction-type bearings P 10, DP 4) Bearings free of nonferrous metal on request
Shaft seal	NBR, FKM, PTFE, EPDM (other sealing materials on request. E.g. HNBR/CR)
O-ring	NBR, FKM, PTFE, EPDM (other sealing materials on request. E.g. HNBR/CR)

Characteristics

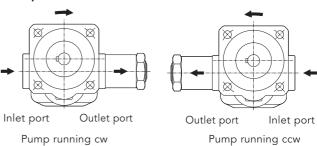
Nominal sizes 3280 cm ³	Vg	32 / 40 / 50 / 63 / 80		
Mounting position		arbitrary		
Direction of rotation		right or left		
Fixing type		flange (DIN ISO 3019)		
Pipe connection on the pump		see datasheet transfer gear pumps KF 480		
Pipe connection on the T-Valve		1½ SAE flange		
Drive shaft end		ISO R 775 short cylindrical		
Working pressure Outlet port	p _{n max}	= 25 bar		
Speed	n _{min} n _{max}	= 200 1/min = 3000 1/min		
Viscosity (dependent on pressure and rotational speed)	v_{min}	 12 mm²/s 5000 mm²/s (adapted valve specification) 		
Fluid temperature	ϑ_{m} min ϑ_{m} max	= -40°C = 200°C		
Ambient temperature	$artheta_{ ext{u min}}$ $artheta_{ ext{u max}}$	= -20°C = 60°C		

Direction of Rotation

The following should be note for direction of rotation:

 when looking at the pump shaft end, the direction of pumping is from right to left if the shaft rotates counterclockwise.

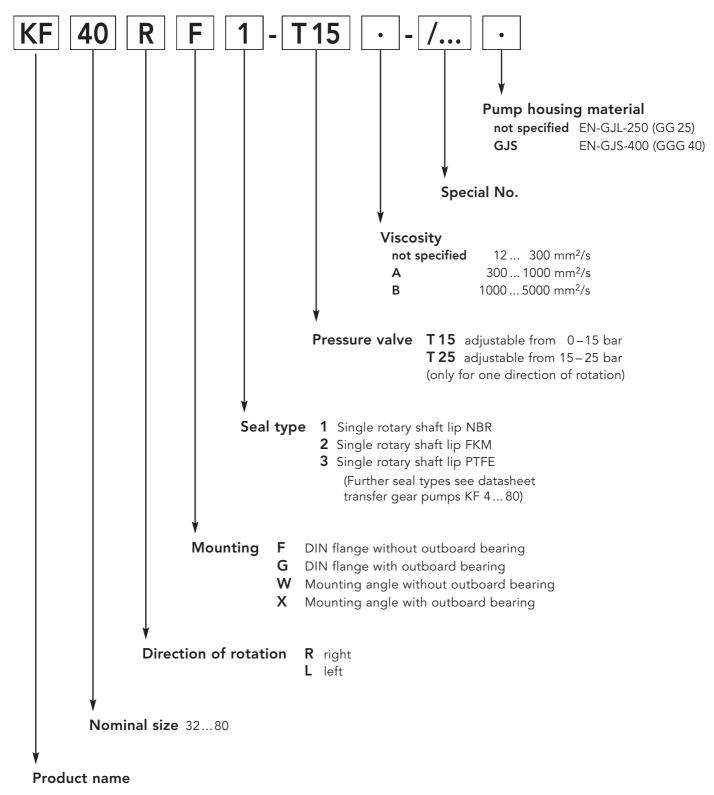
With pressure relief valve





Type Key

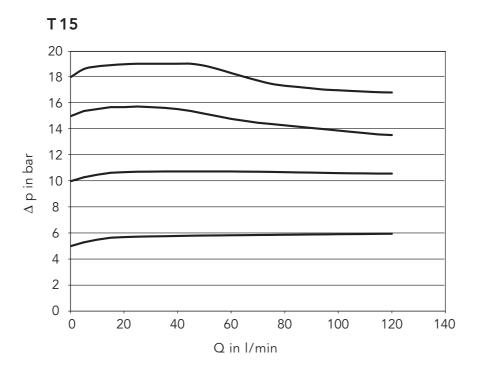
Ordering example

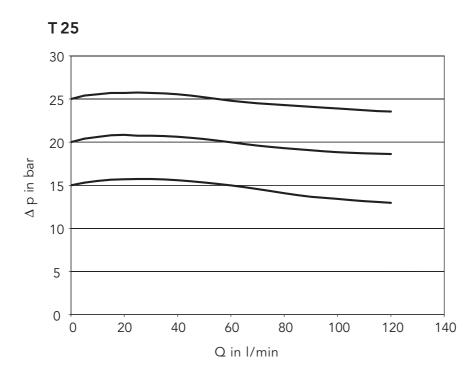




Characteristic Curves

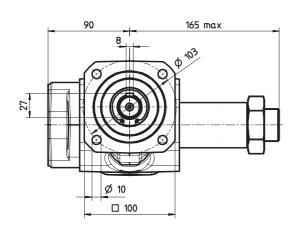
Viskosity: 34 mm²/s Speed: 1450 1/min

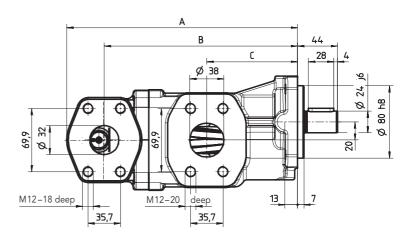


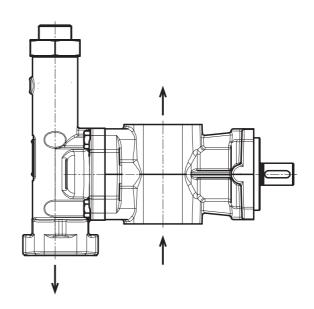




Dimensions (in mm)



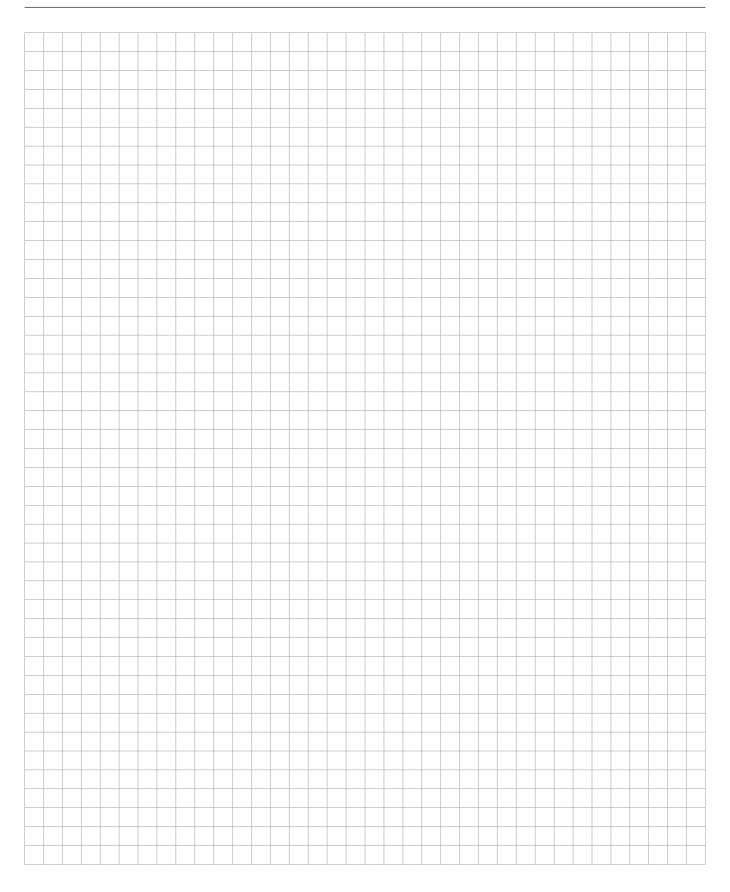




Nominal displacement	Α	В	С	Weight in kg
32 40 50	220	184	84	9.5
63 80	255	213	100	11.2



Note



Product Portfolio

Transfer Pumps

Transfer pumps for lubricating oil supply equipment, low pressure filling and feed systems, dosing and mixing systems.

Mobile Hydraulics

Single and multistage high pressure gear pumps, hydraulic motors and valves for construction machinery, vehicle-mounted machines.

Flow Measurement

Gear and turbine flow meters and electronics for volume and flow metering technology in hydraulics, processing and laquering technology.

Industrial Hydraulics / Test Bench Construction

Cetop directional control and proportional valves, hydraulic cylinders, pressure, quantity and stop valves for pipe and slab construction, hydraulic accessories for industrial hydraulics (mobile and stationary use).

Technology Test benches / Fluid Test benches.





KF32-80 with T-Valve/GB/03.10

