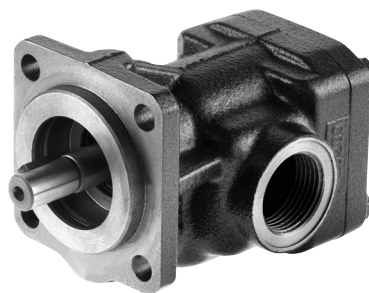
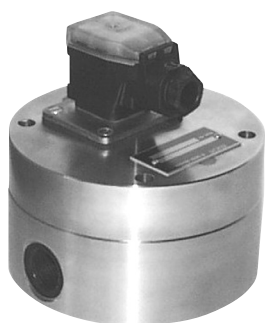


KRACHT

ATEX

by KRACHT



ATEX

Product Overview

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Permitted media

Mineral oil according to DIN 51524/25
Engine oil according to DIN 51511

Other media on request.

Operating instructions / Basics




- The media must ensure a certain minimum amount of lubrication, not contain any solid matter and be chemically compatible. Benzins, solvents, etc. are never permitted
- In electrostatic chargeable fluids, it is important to follow the instructions provided by the respective fluid manufacturer in order to prevent electrostatic charges.
- The operator must comply with the flash point, minimum ignition temperature and media-specific properties.
- Never have explosive mixtures inside the device.
- Dry running is not permissible.

Transfer Gear Pumps KF

Product	KF 4 ... 80 with Lip-type seal	KF 4 ... 80 with double Lip-type seal	KF 4 ... 80 with magnetic coupling	KF 3/63 ... 6/630 with Lip-type seal	KF 3/63 ... 6/630 with double Lip-type seal	KF 3/63 ... 6/630 with magnetic coupling
In Ex-area max. suitable for category	Ex II 2G T4 Ex II 2D T135 °C	Ex II 2G T4	Ex II 2G T4	Ex II 2G T4 Ex II 2D T135 °C	Ex II 2G T4	Ex II 2G T4
Perm. operating pressure inlet port in bar	- 0.4 ... + 0.5	- 0.4 ... + 0.5	- 0.92 ... + 40	- 0.4 ... + 0.5	- 0.4 ... + 0.5	- 0.92 ... + 40
Perm. operating pressure outlet port in bar	25	25	40 but max. 10 bar over operating pressure inlet port (max. 25 bar depending on type of bearing)	16 ... 25 (depending on nominal size)	16 ... 25 (depending on nominal size)	40 but max. 25 bar over operating pressure inlet port (max. 25 bar depending on type of bearing)
Perm. viscosity in mm ² /s	12 ... 20000	12 ... 20000	12 ... 5000	12 ... 15000	12 ... 15000	12 ... 5000
Max. Speed in rpm (viscosity dependent)	3000	3000	3000	2000	2000	2000
Perm. mounting position	Horizontal or with shaft end toward bottom	Horizontal quencher up	Arbitrary	Horizontal or with shaft end toward bottom	Horizontal quencher up	Arbitrary
Perm. media temperatures in °C	- 10 ... + 80	- 10 ... + 80	- 10 ... + 80	- 10 ... + 80	- 10 ... + 80	- 10 ... + 80
Perm. ambient temperatures in °C	- 20 ... + 60	- 20 ... + 60	- 20 ... + 60	- 20 ... + 60	- 20 ... + 60	- 20 ... + 60
Comments	Vertical mounting with shaft end up on request In executing with outboard bearing max. speed 1500 1/min In dust Ex-area, permissible only with non- conductive dusts. Dust-proof capsuling of pump shaft and coupling required	Not suitable for dust-Ex Execution with quencher feed and uni-oiler	Not suitable for dust-Ex The temperature on the split case must be monitored with a temperature sensor Pressures > 25 bar only after approval from Kracht	Vertical mounting with shaft end up on request In dust Ex-area, permissible only with non- conductive dusts. Dust-proof capsuling of pump shaft and coupling required	Not suitable for dust-Ex Execution with quencher feed and uni-oiler	Not suitable for dust-Ex The temperature on the split case must be monitored with a temperature sensor Pressures > 25 bar only after approval from Kracht



Additional products available on request.

High Pressure Gear Pumps KP

Product	KP 1/. ... 4NL. with Lip-type seal	KP 1/. ... 4NL./417 without Lip-type seal
In Ex-area max. suitable for category	 II 2G T3  II 2D T200 °C	 II 2G T4
Perm. operating pressure inlet port in bar	- 0.4 ... + 1	- 0.4 ... + 1
Perm. operating pressure outlet port in bar	150 ... 250 (depending on nominal size)	150 ... 250 (depending on nominal size)
Perm. viscosity in mm ² /s	10 ... 50 (max. 600 in start-up state)	10 ... 50 (max. 600 in start-up state)
Max. Speed in rpm	2500 ... 3000 (depending on nominal size)	2500 ... 3000 (depending on nominal size)
Perm. mounting position	Horizontal or with shaft end toward bottom	Arbitrary
Perm. media temperatures in °C	- 10 ... + 60	- 10 ... + 60
Perm. ambient temperatures in °C	- 20 ... + 40	- 20 ... + 40
Comments	In dust Ex-area, permissible only with non-conductive dusts. Dust-proof capsuling of pump shaft and coupling required	Pump without WDR, bleed oil drain into the shaft space (customer must drain) Suitable for tank installation

Additional products available on request.

High Pressure Gear Motors KM

Product	KM 1/. ... 4NL. (without outboard bearing)
In Ex-area max. suitable for category	 II 2G T3  II 2D T200 °C
Perm. operating pressure inlet port in bar	150 ... 250 (depending on nominal size)
Perm. operating pressure outlet port in bar	2 (120 with external leak oil)
Perm. viscosity in mm ² /s	10 ... 50 (max. 600 in start-up state)
Max. Speed in rpm	3000
Perm. mounting position	Horizontal or with shaft end toward bottom
Perm. media temperatures in °C	- 10 ... + 70
Perm. ambient temperatures in °C	- 20 ... + 40
Comments	In dust Ex-area, permissible only with non-conductive dusts. Dust density motor shaft casing and coupling required

Gear Type Flow Meters VC

Product	VC Series 1 to 8	VCA 2 + VCA 5 (Aluminium version)
In Ex-area max. suitable for category	⚠ II 2G T4 ⚠ II 2D T125 °C ⚠ I M2	⚠ II 2G T4 ⚠ II 2D T125 °C
Max. operating pressure in bar	315 ... 400 (according to type data sheet, on nominal size)	80 – 160 (according to type data sheet, depending on nominal size)
Perm. differential pressure in bar	16	10 or 16 (according to type data sheet, depending on nominal size)
Perm. viscosity in mm ² /s	According to type data sheet, dependent on series	According to type data sheet
Perm. mounting position	Arbitrary, indoors no Ex-atmospheres permissible	Arbitrary, indoors no Ex-atmospheres permissible
Perm. media temperatures in °C	- 30 ... + 80 (dependent on sealing material)	- 10 ... + 80
Perm. ambient temperatures in °C	- 30 ... + 80	- 10 ... + 80
Comments	In dust Ex-area, only permissible with non-conductive dusts	In dust Ex-area, only permissible with non-conductive dusts

Additional products available on request.

Pressure Relief Valves

Product	DBD	SPV
In Ex-area max. suitable for category	⚠ II 2G T4 ⚠ II 2D T135 °C	⚠ II 2G T4 ⚠ II 2D T135 °C
Perm. operating pressure inlet side in bar	410 (minimum pressure according to type data sheet)	20 (SPV 10 : 30)
Perm. operating pressure outlet side in bar	210	20
Perm. viscosity in mm ² /s	12 ... 600	2 ... 600
Perm. mounting position	Arbitrary, preferably vertical, indoors no Ex-atmospheres permissible	Arbitrary, preferably vertical, adjustment screw faces down, indoors no Ex-atmospheres permissible
Perm. media temperatures in °C	- 20 ... + 80	- 20 ... + 80
Perm. ambient temperatures in °C	- 20 ... + 60	- 20 ... + 60
Comments	In dust Ex-area, only permissible with non-conductive dusts	In dust Ex-area, only permissible with non-conductive dusts

Additional products available on request.

ATEX Applications Questionnaire

Short description of the applications (if possible, include sketch):

Desired product: _____

Medium: _____

For filled media, please state filling material, particle size and hardness: _____

Medium temperature: min. _____ °C max. _____ °C

Viscosity: min. _____ mm²/s max. _____ mm²/s

Discharge flow or Flow range: min. _____ l/min max. _____ l/min

Pressure: Inlet port or input _____ bar

Outlet port or output _____ bar

Speed: _____ 1/min

Installation position: _____

Sealing material: _____

Ambient temperature: min. _____ °C max. _____ °C

Additional information for the product design in explosion-proof version according to ATEX 95/100a:

Medium: Please provide us with the safety data sheet and the technical data sheet for the medium.

Device group I M2

Device group II 2G, 2D, 3G, 3D

Explosion group: IIA IIB IIC (only for 2G or 3G)

Temperature level: T1 (450 °C) T2 (300 °C) T3 (200 °C) T4 (135 °C)

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.



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