KRACHT





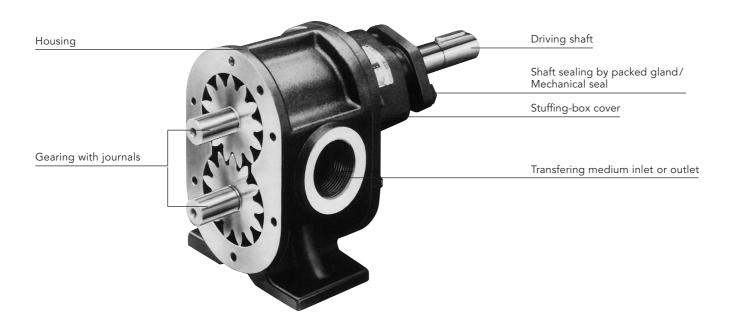
Transfer Gear Pumps

BT, BTH

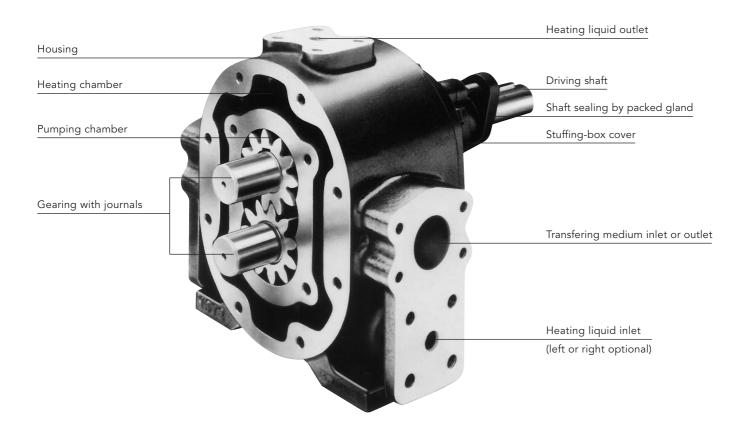


Construction

Basic construction of BT (rear bearing cover removed)



Basic construction of BTH (rear bearing cover removed)





Function

Pumps series BT and BTH are low speed gear pumps for transfering medium and high viscosity fluids, provided they have certain minimum amount of lubricating property, do not contain any solids and are chemically compatable with the materials of construction.

The standard material of construction for housing, bearing cover and stuffing box cover is grey cast iron. The shafts and gears are manufactured from case hardening steel, hardened and ground. The shafts are carried in plain bearings manufactured in bronze, with an option of sintered iron.

The rotary shaft seal is a packed gland consisting of PTFE fillied aramid yarn, and the static sealing between mating parts is by means of either, liquid sealant or gaskets. All sealing materials are asbestos free.

External axial loads are not permissable, restricted radial loads can be absorbed, dependant on their magnetude and direction.

Driving by flexible shaft coupling is preferred.

In the case of fluids which require elevated temperatures to flow i. e. bitumen, wax etc. the BTH series pump should be used. In this model the housing is double walled to provide a heating jacked.

The pump transfer chamber is heated by circulating heat transfer fluid or steam through the jacket.

The standard range of models is complimented by a range of a special models described below.

The pump size BT 2 can be supplied in a corrosion and acid - resistant construction (stainless steel body and gear) with carbone plain bearings bushes; the operating pressure of this pump is limited to 5 bars.

BT1 up to BT4 pumps can be manufactured with bronze housing and with further combinations of stainless steel gears and shafts or bronze gears and stainless steel shafts.

For use on liquids with an abrasive nature and high corrosive effects like resins, certain paints and varnishes as well as glues a special construction, Code No. / 04, is recommended, which is available for pump sizes BT1 up to BT7.

In this model all pump parts which are in contact with the transfering fluid are protected from wear and corrosion by a chemically deposited Ni/SiC-dispersion layer. This treatment substantially extends the service life compared with that of a standard model when used in these types of fluid.



General Characteristics

Fixing type Foot mounting

Pipe connection BT: Whitworth-Pipe thread

BTH: Whitworth-Pipe thread flange, flange with counterflange

Direction of rotation BT = clockwise **and** anticlockwise

BTH = clockwise or anticlockwise

Weight see page 11 ... 15

Fitting position horizontal Ambient temperature $\vartheta_{u \, min} = -10 \, ^{\circ}\text{C}$

 $\vartheta_{\text{u max}} = 60 \, ^{\circ}\text{C}$

Operating Characteristics

Operating pressure

Inlet port $p_{e min} = -0.4 bar$ Outlet port * $p_N = 8 bar$

1 bar to BT0

5 bar to BT2 stainless steel

max. pressure in the heating jacket $p_H = 10 \text{ bar}$ Temperature range $\vartheta_{m \text{ min}} = -10 \text{ °C}$

 $\vartheta_{\text{m max}} = 220 \, ^{\circ}\text{C}$

Viscosity range $v_{min} = 76 \text{ mm}^2/\text{s}$

 $v_{max} = 30000 \text{ mm}^2/\text{s}$

Viscosities other than within this range on request

Discharge flow see table page 9, 10

Power input speeds $n_{min} = 100 \text{ 1/min}$ $n_{max} = 750 \text{ 1/min}$

Suitable Fluids

Lubricating-, Cutting oils Waste oils Adhesives, Plastics Cellulose Soluble-, Steel hardening-, Bitumen Binding agents etc.

Rolling-, Drawing oils Paints Resins

Diesel oils Greases Glue, Glue liquors

Fuel oil S Synthetic resin varnishes Molasses Engine oils Nitrocellulose lacquers Waxes

Other Types

Pump with electric motor, coupling and coupling guard mounted on a common base plate.

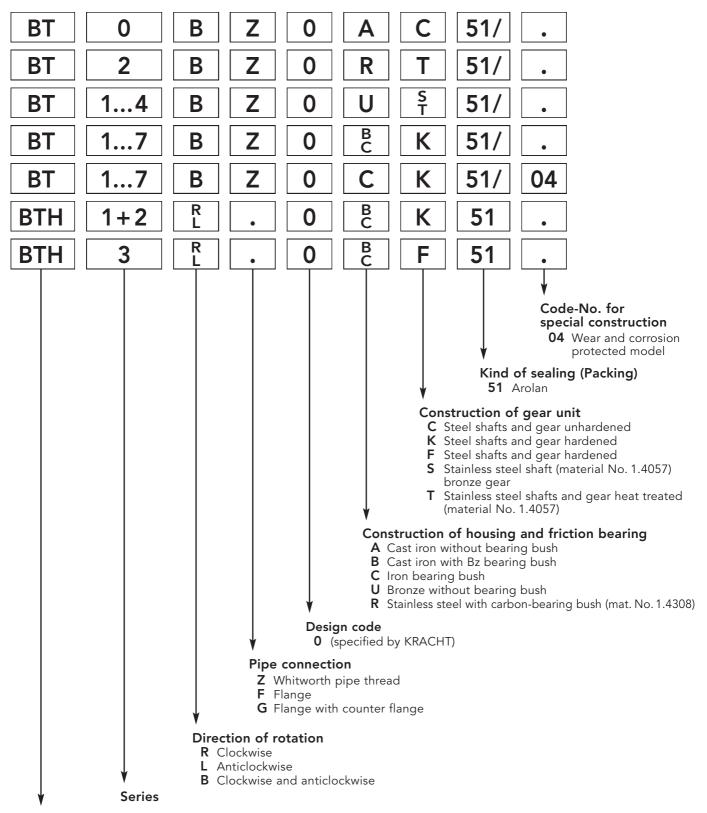
Accessories

Flexible coupling

^{*} higher operating pressure on request



Type Key



Product code

BT without heating jacket (Cylindrical shaft end without step bearing, with packing and threaded pipe connection) **BTH** with heating jacket (Cylindrical shaft end without step bearing, with packing, threated pipe- or flange connection)



Transfer Gear Pumps BT - ATEX

Pumps of the series BT are also available in ATEX design.

The pumps can be used as follows:

- a. In Zone 2 (Gas-๋ ⊕, Category 3G) in explosion groups IIA and IIB and IIC
- b. In Zone 1 (Gas-@, Category 2G) in explosion groups IIA and IIB and IIC

Qualification with regard to surface temperature is T4. For all gases, vapours, mists with an ignition temperature $> 135\,^{\circ}\text{C}$, the pumps are not an ignition source.

The permissible temperature range extends from $-20\,^{\circ}\text{C} \le T_a \le 60\,^{\circ}\text{C}$.

Identification in accordance with EC Directive RL 94/9/EG

Manufacturer: Kracht GmbH

58791 Werdohl, Germany

Type designation: BT ...

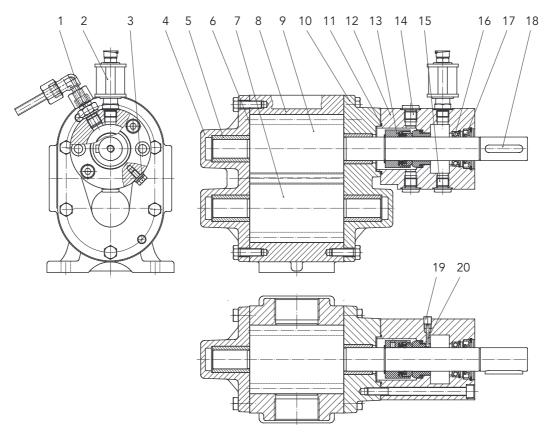
Job No., Production Date: xxxxxx/xx-xxx xx.xx

Tech. File Ref.: TFR: 07.01X

Ignition protection

The ATEX design BT pumps are equipped with a mechanical seal with a fluid receiver. In the area of the fluid receiver the BT-ATEX has a connection for a container for filling the receiver fluid. An overflow serves to monitor the amount which leaks from mechanical seal.

Construction BT - ATEX



- 1 Overflow
- 2 Container for the preliminary fluid
- 3 Earth connection
- 4 Front cover
- 5 Plain bearing bush
- 6 Fluid gasket
- 7 Driven shaft
- 8 Housing
- 9 Driving shaft
- 10 Cover
- 11 O-Ring
- 12 Seal retainer
- 13 Mechanical seal
- 14 Vent screw
- 15 Drain plug
- 16 Bearing
- 17 Rotary shaft seal
- 18 Parallel key
- 19 Screw plug
- 20 Antitwist protection



Transfer Gear Pumps BT - ATEX

General Characteristics

Design External gear pump
Pipe connection Whitworth-Pipe thread

Mounting position Horizontal
Fixing type Foot mounting

Direction of rotation clockwise **and** anticlockwise

Ambient temperature $\vartheta_{u \text{ min}} - 10 \,^{\circ}\text{C}$ $\vartheta_{u \text{ max}} - 40 \,^{\circ}\text{C}$

Operating Characteristics

Temperature range $\vartheta_{u \; min} - 10 \; ^{\circ}\text{C}$ $\vartheta_{u \; max} = 60 \; ^{\circ}\text{C}$ Temperature

of delivered medium $\vartheta_{u \; min} - 10 \; ^{\circ}\text{C}$ $\vartheta_{u \; max} = 80 \; ^{\circ}\text{C}$

 $\begin{array}{ccc} \text{Speed} & & n_{min} & 100 \text{ 1/min} \\ & & n_{max} & 750 \text{ 1/min} \end{array}$

 $\begin{array}{ccc} Viscosity & v_{min} & 76 \text{ mm}^2\text{/s} \\ & v_{max} & 20000 \text{ mm}^2\text{/s} \end{array}$

Operating pressure

Inlet port $p_{e \, min} - 0.4 \, bar$

p_{e max} 1 bar

Outlet port p_{n max} 8 bar

Axial and centrifugal

forces on shaft end Not allowed

Filtering Filter fineness \leq 60 μ m

(If required, install a suction filter to prevent the pump from being jammed by foreign particles).

Permissible media Inflammable and non-inflammable

liquids without abrasive ingredients which are compatible with the materials of which the pump is made. The liquid must not be static charged. Flame point and minimum ignition temperature must be observed by the operator. Media-specific characteristics must be taken into consideration. The fluid must have a minimum

amount of lubricity.



For certain operating conditions, the stated minimum and maximum values are not valid! Thus, for example, the maximum operating pressure is not permissible in conjunction with low rpm and minimum viscosity.



Media-specific characteristics must be observed, e.g. in the case of emulsions and solutions containing water, the maximum operating temperature is 50 °C, the pump must be located beneath the level of the liquid.

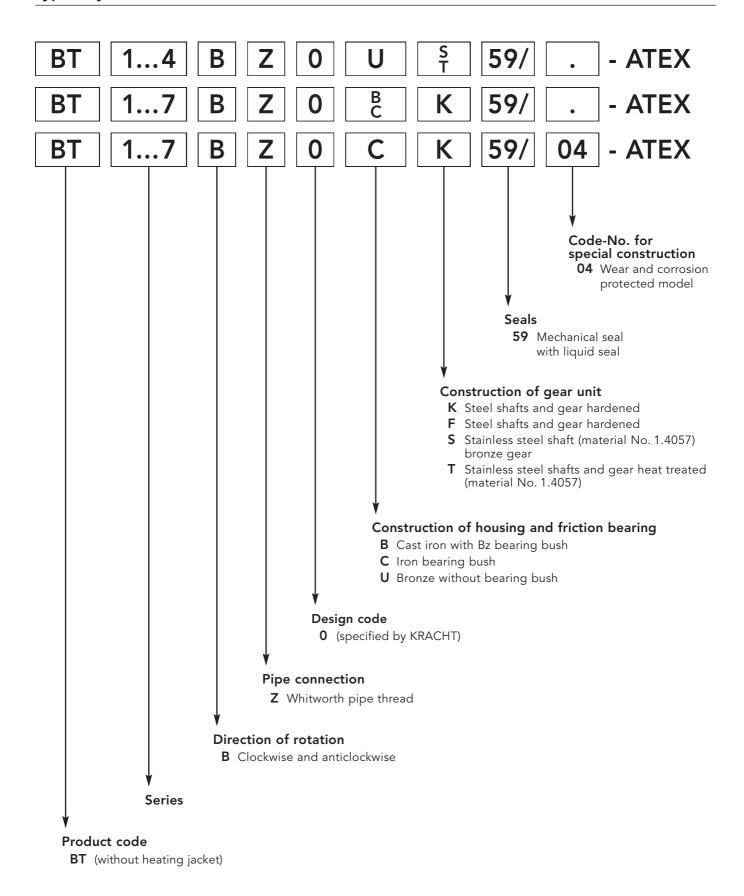
Materials

Housing, bearings, gears	see type key*
Mechanical sealing	SiC-SiC, FFKM, Stainless steel
Other media-side seals	Loctite 510, FEP with FKM-core
Uni-oiler	Ms, Plexiglas
Type plate	Stainless steel
Notched nail	Al (Mg portion < 7.5%)
Gasket ring screw-plugs	Cu
Other parts	St

^{*} see type label at pump: BT...



Type Key ATEX





Power consumption

					n = 100	1/min				n = 200	1/min		n = 300 1/min						
Pump type	Vg	р	Q	76	scosity 760	v (mm²/ 3800	s) 7600	Q	76	iscosity 760	v (mm²/s 3800	7600	Q	Vis 76	cosity v 760	(mm²/s) 3800) 7600		
	(cm ³ /r)	(bar)	(I/min) -	reg.	power i	nput P (kW)	(I/min) -	reg.	power i	nput P (I	kW)	(I/min) ·	reg. į	ower ir	nput P (kl 0,15 0,22 0,3 0,3 0,3 0,3 0,44 0,44 0,52 0,6 0,7 0,81 0,88 1,18 1,4 1,55 1,7 1,9 2,3 2,5 2,7 3,1 3,5 3,8 3,7 4,4 4,8 5,2 0,81 0,88 0,96 1,1 1,6 1,8 2,0 2,7 3,6 3,9 3,7 4,8 5,3 7,7	W)		
BT 0	4	1	_	_	_		_	0,6	0,07	0,07	0,15	_	0,9	0,07	0,07	0,15	_		
BT 1	32	2 4 6 8	2,5	0,07 0,07 0,07 0,07	0,07 0,07 0,07 0,07	0,07 0,07 0,07 0,07	0,07 0,07 0,07 0,15	5	0,07 0,07 0,07 0,07	0,07 0,07 0,15 0,15	0,15 0,15 0,15 0,22	0,15 0,22 0,22 0,22	7,5	0,07 0,07 0,15 0,15	0,15 0,15 0,15 0,22	0.22	0,22 0,3 0,3 0,3		
BT 2	43	2 4 6 8	4	0,07 0,07 0,07 0,07	0,07 0,07 0,07 0,15	0,15 0,15 0,15 0,15	0,15 0,15 0,15 0,22	8	0,07 0,07 0,15 0,15	0,15 0,15 0,22 0,22	0,22 0,3 0,3 0,37	0,3 0,37 0,37 0,37	12	0,07 0,15 0,22 0,22	0,22 0,3 0,3 0,37	0,44 0,44	0,44 0,52 0,52 0,6		
BT 3	91	2 4 6 8	8	0,07 0,07 0,15 0,15	0,15 0,15 0,15 0,22	0,22 0,22 0,3 0,3	0,22 0,3 0,3 0,37	16	0,15 0,15 0,22 0,3	0,22 0,3 0,37 0,37	0,44 0,44 0,52 0,6	0,52 0,6 0,6 0,66	24	0,15 0,3 0,37 0,44	0,37 0,44 0,52 0,6	0,74 0,81	0,74 0,88 0,96 1,03		
BT 4	197	2 4 6 8	16	0,15 0,15 0,22 0,3	0,22 0,3 0,37 0,37	0,37 0,44 0,52 0,6	0,52 0,6 0,6 0,66	32	0,22 0,37 0,44 0,6	0,44 0,6 0,66 0,74	0,81 0,86 1,03 1,1	1,03 1,18 1,25 1,33	48	0,3 0,52 0,66 0,81	0,66 0,88 1,03 1,18	1,4 1,55	1,47 1,7 1,84 2,0		
BT 5	254	2 4 6 8	24	0,22 0,3 0,37 0,44	0,37 0,44 0,52 0,6	0,66 0,74 0,81 0,88	0,74 0,88 0,96 1,03	48	0,44 0,6 0,74 0,88	0,74 0,88 1,1 1,25	1,25 1,47 1,7 1,84	1,55 1,77 2,0 2,13	72	0,52 0,81 1,03 1,25	1,03 1,4 1,7 1,9	1,9 2,3 2,5 2,7	2,4 2,7 2,9 3,3		
BT 6	352	2 4 6 8	34	0,3 0,44 0,6 0,66	0,52 0,66 0,74 0,88	0,88 1,03 1,18 1,25	1,1 1,25 1,4 1,47	68	0,6 0,88 1,1 1,33	0,96 1,25 1,47 1,7	1,77 2,06 2,28 2,5	2,2 2,5 2,7 2,95	102	0,66 1,1 1,47 1,77	1,47 1,9 2,2 2,6	3,5	3,3 3,8 4,1 4,4		
BT 7	494	2 4 6 8	48	0,37 0,52 0,66 0,88	0,66 0,88 1,03 1,18	1,25 1,47 1,62 1,77	1,55 1,77 1,9 2,06	96	0,74 1,1 1,47 1,77	1,33 1,77 2,06 2,36	2,4 2,9 3,2 3,5	3,0 3,5 3,8 5,0	144	0,96 1,55 2,06 2,43	2,06 2,65 3,2 3,6	4,4 4,8	4,7 5,2 5,7 6,1		
BTH 1/55	97	2 4 6 8	9,5	0,07 0,15 0,15 0,22	0,15 0,22 0,22 0,22	0,3 0,3 0,3 0,37	0,3 0,37 0,37 0,44	19	0,15 0,22 0,3 0,44	0,3 0,37 0,44 0,52	0,52 0,6 0,66 0,74	0,66 0,74 0,77 0,81	28,5	0,22 0,37 0,44 0,52	0,44 0,6 0,66 0,74	0,88 0,96	0,96 1,1 1,18 1,28		
BTH 1/105	186	2 4 6 8	17	0,15 0,22 0,3 0,37	0,3 0,37 0,4 0,44	0,52 0,6 0,62 0,66	0,6 0,66 0,74 0,81	34	0,3 0,44 0,6 0,74	0,52 0,66 0,81 0,88	0,96 1,1 1,25 1,33	1,18 1,33 1,47 1,55	51	0,37 0,6 0,81 0,96	0,81 1,03 1,18 1,4	1,6 1,8	1,8 2,0 2,2 2,4		
BTH 2/100	393	2 4 6 8	38	0,3 0,44 0,6 0,66	0,52 0,66 0,81 0,88	0,96 1,1 1,25 1,33	1,18 1,33 1,47 1,55	76	0,6 0,88 1,1 1,33	1,03 1,33 1,62 1,84	1,84 2,14 2,43 2,65	2,3 2,6 2,9 3,1	114	0,74 1,18 1,55 1,9	1,6 2,0 2,4 2,7	3,2 3,6	3,6 4,0 4,3 4,7		
BTH 2/130	510	2 4 6 8	50	0,37 0,52 0,66 0,88	0,66 0,88 1,03 1,18	1,25 1,47 1,62 1,77	1,55 1,77 1,9 2,1	100	0,74 1,1 1,5 1,8	1,3 1,8 2,1 2,4	2,4 2,9 3,2 3,5	3,0 3,5 3,8 4,0	150	1,0 1,6 2,1 2,4	2,1 2,7 3,2 3,6	4,3 4,8	4,7 5,3 5,8 6,2		
BTH 3/150	1056	2 4 6 8	100	0,88 1,18 1,47 1,84	1,47 1,84 2,14 2,43	2,6 3,0 3,3 3,6	3,2 3,6 3,8 4,2	200	1,5 2,4 3,0 3,7	2,9 3,7 4,3 4,9	5,1 6,0 6,5 7,1	6,3 7,1 7,7 8,3	300	2,2 3,3 4,2 5,1	4,4 5,5 6,4 7,3	7,7 8,8 9,7 10,6	9,4 10,7 11,6 12,4		

Power input required at high viscosities

Viscosities above values specified in the table require a higher power input.

In such cases the power input of the pump P_{1Pu} can be determined by means of the viscosity factor f_v (see table page 10) as follows:

$$P_{1Pu} = P_{Tab 76} + f_v \cdot Q_{Tab}$$

Example: BT 4 n = 200 1/min; v = 10 000 mm²/s; p = 8 bar with $P_{tab~76}$ = 0.6 kW, table data at v = 76 mm²/s f_v = 27 x 10⁻³ kW min/l

 $Q_{Tab} = 32 I/min$

gives power input $P_{1Pu} = 1.46 \text{ kW}$



Power consumption

				n =	400 1/	min		n =	500 1/	min		n =	600 1/	min		n =	700 1/	min
Pump type	Vg	р	Q	Viscos 76	ity v (m 760	nm²/s) 3800	Q	Viscos	sity v (m 760	m²/s) 3800	Q	Visco:	sity v (n 760	nm²/s) 3000	Q	Viscos 76	ity v (m 760	m²/s) 2000
- mp - 7/p -	(cm ³ /r)	(bar)	(I/min) r	eg. pow			(I/min)	eg. pow			(I/min)			t P (kW)	(I/min) r	eg. pow		
BT 0	4	1	1,2	0,07	0,15		1,5	0,07	0,15		1,8	0,07	0,15		2,1	0.07	0,15	
БІО	<u> </u>	2	1,2	0,07	0,15	0,3	1,0	0,07	0,2	0,35		0,08	0,2	0,34	2,1	0,09	0,23	0,32
BT 1	32	4 6 8	10	0,15 0,15 0,22	0,22 0,22 0,3	0,37 0,37 0,44	12,5	0,15 0,2 0,22	0,25 0,3 0,35	0,4 0,45 0,5	15	0,18 0,24 0,26	0,3 0,36 0,38	0,44 0,5 0,52	17,5	0,21 0,28 0,3	0,35 0,42 0,44	0,44 0,51 0,53
BT 2	43	2 4 6 8	16	0,15 0,22 0,3 0,3	0,3 0,37 0,37 0,44	0,6 0,66 0,74 0,96	20	0,15 0,27 0,34 0,37	0,37 0,44 0,52 0,26	0,66 0,74 0,81 1,03	24	0,18 0,32 0,4 0,45	0,37 0,51 0,59 0,64	0,48 0,62 0,8 0,85	28	0,21 0,37 0,47 0,53	0,43 0,59 0,69 0,75	0,57 0,73 0,83 0,89
BT 3	91	2 4 6 8	32	0,22 0,37 0,44 0,52	0,44 0,6 0,66 0,74	1,03 1,1 1,25 1,33	40	0,3 0,44 0,6 0,66	0,6 0,74 0,88 0,96	1,1 1,18 1,33 1,4	48	0,36 0,53 0,72 0,8	0,74 0,91 1,1 1,18	1,18 1,35 1,54 1,62	56	0,42 0,62 0,84 0,93	0,87 1,07 1,29 1,38	1,15 1,35 1,57 1,66
BT 4	197	2 4 6 8	64	0,44 0,66 0,88 1,03	0,88 1,18 1,33 1,55	2,0 2,2 2,43 2,58	80	0,52 0,88 1,1 1,33	1,1 1,47 1,7 1,9	2,06 2,36 2,58 2,8	96	0,63 1,05 1,32 1,6	1,11 1,53 1,8 2,08	2,26 2,68 2,95 3,23	112	0,74 1,23 1,54 1,87	1,64 2,13 2,44 2,77	2,2 2,69 3,0 3,33
BT 5	254	2 4 6 8	96	0,66 1,03 1,4 1,7	1,4 1,8 2,2 2,5	3,2 3,5 3,9 4,2	120	0,81 1,33 1,77 2,14	1,8 2,3 2,7 3,1	3,3 3,8 4,2 4,6	144	1,0 1,6 2,1 2,6	2,2 2,8 3,3 3,8	3,4 4,0 4,5 5,0	168	1,2 1,9 2,5 3,0	2,5 3,2 3,8 4,3	3,4 4,1 4,7 5,2
BT 6	352	2 4 6 8	136	0,88 1,47 1,9 2,4	1,9 2,5 3,0 3,4	4,4 5,0 5,4 6,0	170	1,1 1,9 2,4 3,0	2,4 3,2 3,8 4,3	4,6 5,2 5,8 6,2	204	1,3 2,3 2,9 3,6	2,9 3,9 4,5 5,2	4,8 5,8 6,4 7,1	238	1,5 2,7 3,4 4,2	3,5 4,6 5,3 6,1	4,6 5,8 6,5 7,3
BT 7	494	2 4 6 8	192	1,3 2,0 2,7 3,3	2,7 3,6 4,2 4,7	6,1 6,9 7,6 8,1	240	1,6 2,6 3,4 4,0	3,4 4,4 5,2 6,0	6,2 7,2 8,0 8,7	288	1,9 3,1 4,1 4,8	4,2 5,4 6,4 7,1	6,8 8,0 9,0 9,7	336	2,2 3,6 4,7 5,6	4,9 6,3 7,4 8,3	6,6 8,0 9,1 10,0
BTH 1/55	97	2 4 6 8	38	0,3 0,44 0,6 0,66	0,6 0,74 0,88 0,96	1,25 1,4 1,55 1,7	47,5	0,37 0,6 0,74 0,88	0,74 0,96 1,1 1,25	1,3 1,5 1,7 1,8	57	0,44 0,72 0,89 1,06	0,9 1,18 1,35 1,52	1,4 1,7 1,9 2,0	66,5	0,52 0,84 1,04 1,23	1,05 1,37 1,57 1,76	1,4 1,7 1,9 2,1
BTH 1/105	186	2 4 6 8	68	0,52 0,81 1,03 1,25	1,1 1,4 1,6 1,8	2,4 2,6 2,9 3,1	85	0,66 1,03 1,33 1,6	1,3 1,7 2,0 2,3	2,4 2,8 3,1 3,4	102	0,79 1,24 1,59 1,92	1,6 2,1 2,4 2,7	2,5 3,0 3,3 3,7	119	0,92 1,45 1,86 2,23	1,9 2,4 2,8 3,2	2,5 3,0 3,4 3,8
BTH 2/100	393	2 4 6 8	152	0,96 1,55 2,1 2,5	2,1 2,7 3,2 3,7	4,7 5,3 5,8 6,2	190	1,2 1,9 2,6 3,2	2,6 3,3 4,0 4,6	4,7 5,5 6,1 6,6	228	1,4 2,3 3,1 3,8	3,2 4,1 4,9 5,6	5,3 6,2 7,0 7,7	266	1,7 2,6 3,6 4,5	3,8 4,7 5,7 6,6	5,2 6,1 7,1 8,0
BTH 2/130	510	2 4 6 8	200	1,3 2,1 2,7 3,3	2,8 3,6 4,2 4,7	6,1 6,9 7,6 8,1	250	1,6 2,6 3,4 4,1	3,4 4,4 5,3 6,0	6,2 7,2 8,0 8,7	300	1,9 3,1 4,1 4,9	4,3 5,5 6,5 7,3	7,0 8,2 9,2 10,0	350	2,2 3,6 4,8 5,8	5,0 6,4 7,6 8,6	6,8 8,2 9,4 10,4
BTH 3/150	1056	2 4 6 8	400	2,8 4,4 5,6 6,8	5,8 7,4 8,6 9,7	10,2 11,8 13,0 14,1	500	3,5 5,5 7,0 7,7	7,2 9,2 10,7 12,2	12,7 14,7 16,2 17,7	600	4,2 6,6 8,5 9,2	9,0 11,4 13,3 14,0	14,4 16,8 18,7 19,4	700	4,9 7,7 9,9 10,7	10,5 13,3 15,5 16,3	14,0 16,8 19,0 19,8

kin. viscosity v < mm²/s	1000	2000	3000	6000	10000	20000	30000
Max. speed n _{max} ≥ 1/min	750	600	500	400	300	200	100
Viscosity factor f _v 10 ⁻³ kW min/l	9.5	14	17	22.5	27	34	38

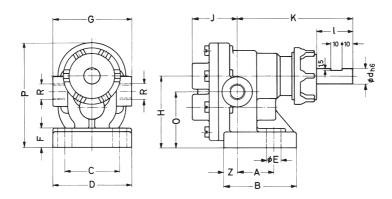
Spread of output:

 \pm 5% of table values Q. Viscosities below 76 mm²/s effect a decrease of output flow values, Q. The power output of driving motor must exceed the table values P by about 20%.

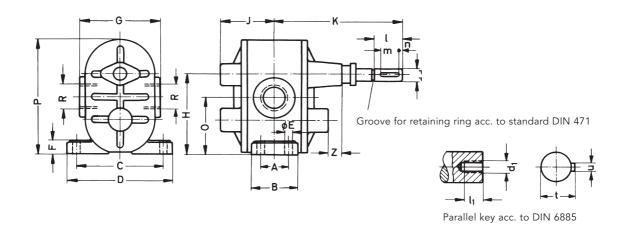
Important: When determining the power input required always consider the max. operating viscosity. (e.g. in the starting situation)!



BT 0 BZ OAC 51



BT 1...7 BZ O.. 51 BT 1...7 BZ OCK 51/04

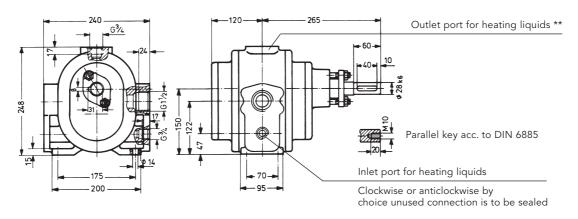


Pump																S	haft	end					approx.
type	R	Α	В	С	D	ØE	F	G	Н	0	J	K	Р	Ød	I	m	n	u	t	d ₁	I ₁	Z	Weight kg
BT 0	G 1/4	30	60	45	65	11	15	65	60	47	38	95	88	13	22	-	-	-	-	-	-	11	2
BT 1	G 1/2	-	45	55	75	9	12	85	69	54	48	150	100	13	40	15	10	5	15	М6	15	20	3
BT 2	G 3/4	35	55	65	90	10	12	90	88,5	71	65	165	125	15	45	25	5	5	17	М6	15	20	5
BT 3	G 1	40	65	85	105	10	12	100	111	88,5	70	190	155	18	50	30	5	6	20,5	М6	15	23	7
BT 4	G 1½	40	80	95	135	10	12	130	131,5	100	102	245	189	25	50	40	5	8	28	M 8	20	28	15
BT 5	G 1½	35	75	140	180	14	20	150	145	103	98	250	213	25	50	40	5	8	28	M 8	20	29	20
BT 6	G 2	35	75	185	225	14	28	175	175	126	106	245	252	25	50	40	5	8	28	M 8	20	29	29
BT 7	G 2	60	100	185	225	14	28	240	175	126	123	260	252	25	50	40	5	8	28	M 8	20	29	37

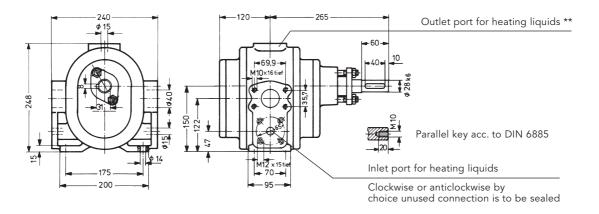
Inlet and outlet ports equally sized.



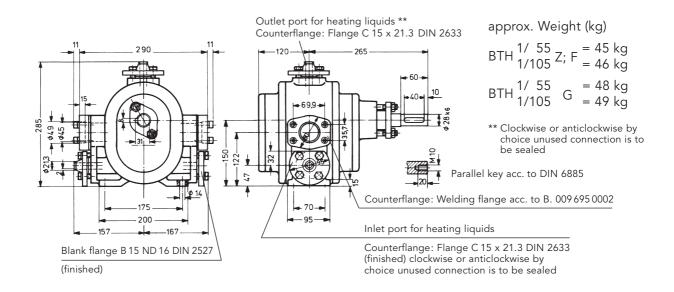
BTH 1 / 155 ZO K 51



BTH 1 / 105 FΟ K 51

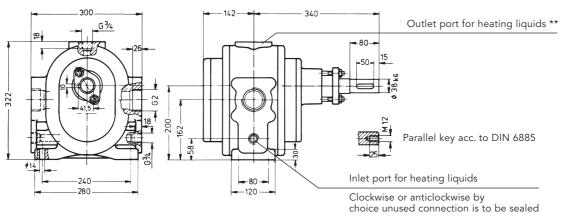


BTH 1 / 105 G_O K 51

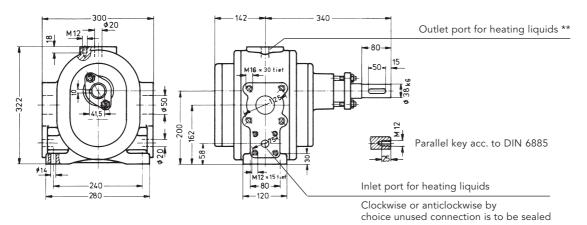




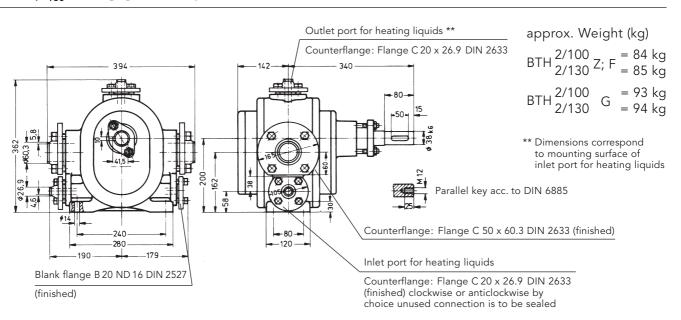
BTH 2 $/_{130}^{100}$ • ZO • K 51



BTH 2 / 100 • FO • K 51

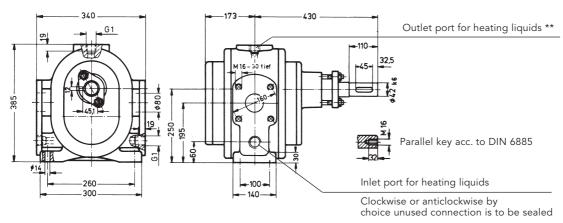


BTH 2 / 100 • GO • K 51

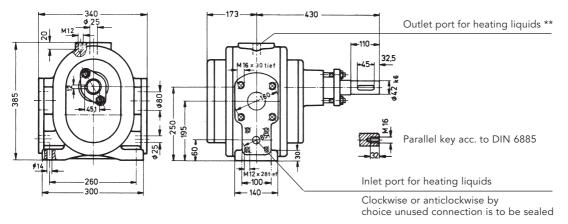




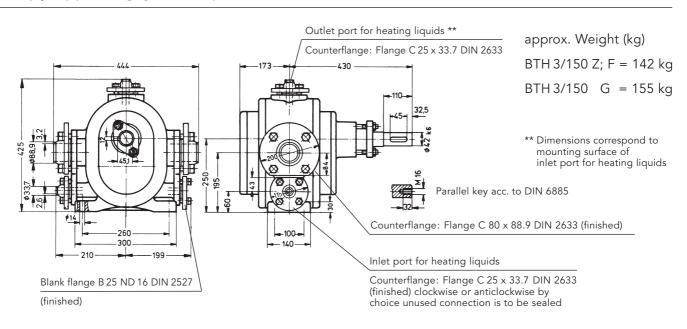
BTH 3 / 150 • ZO • K 51



BTH 3 / 150 • FO • K 51

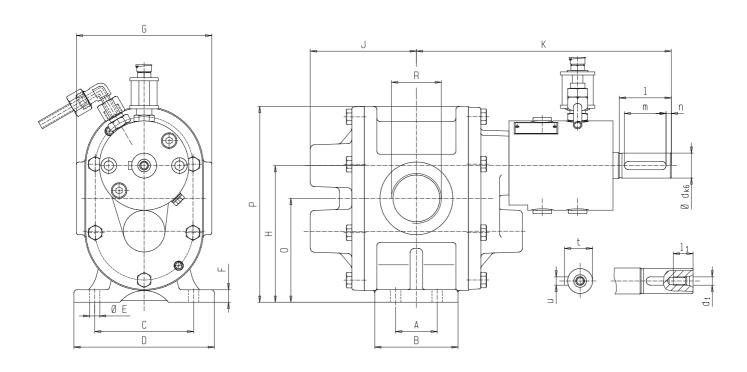


BTH 3 / 150 • GO • K 51





BT1...7 BZ 0CK 59



Pump																					
Pump type	R A	В	С	D	ØE	F	G	Н	0	J	K	Р	Ød	I	m	n	u	t	d ₁	I ₁	kg
BT 4	G 2 40	80	95	135	10	12	130	131,5	100	102	245	189	24	50	40	5	8	27	M 8	19	18,5
BT 6	G 2 35	75	185	225	14	28	175	175	126	106	245	252	24	50	40	5	8	27	M 8	19	33,0

Inlet and outlet ports equally sized.

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.





BT, BTH/GB/08.08

