

# Radial piston pumps

Type BRK11

heavy version

up to **1000 bar** 

0.47 to 2.71 cm<sup>3</sup>/rev

500 bar  $\rightarrow$  see data sheet BRK501/502 700 bar  $\rightarrow$  see data sheet BRK701/702

## **Features**

- High volumetric efficiency
- Selfventing and selfpriming
- Low pulsation
- Combination with gear pump possible (see separate technical data sheet BKP)

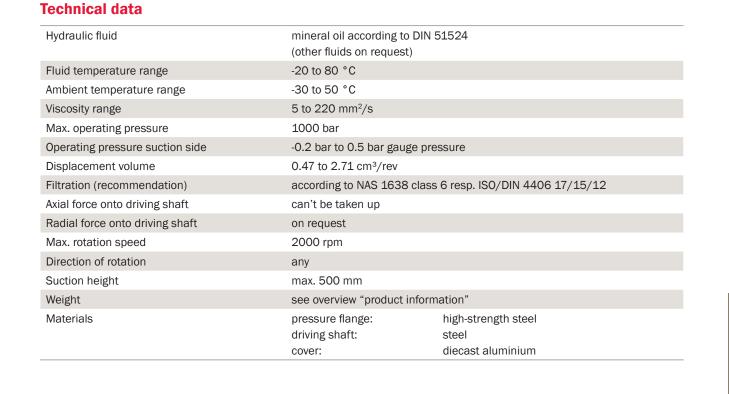


## **Applications**

- Specially designed for demanding applications with continuous pressures up to 1000 bar → long economic lifetime!
- Machine tools
- Clamping device
- Power units (e.g. for presses)
- Test benches
- Accumulator charging systems
- Lifting and advancing systems

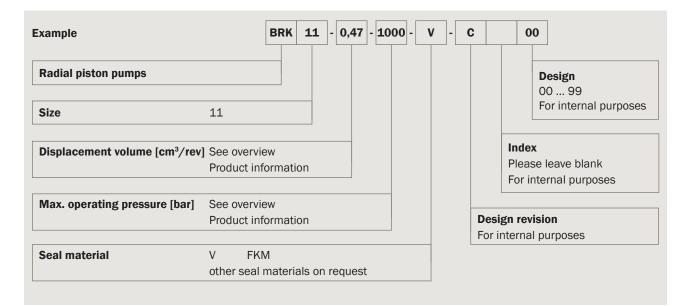
## Design

- Radial piston pump of modular design
- With valve controlled pumping elements
- With 3 or 5 pumping elements

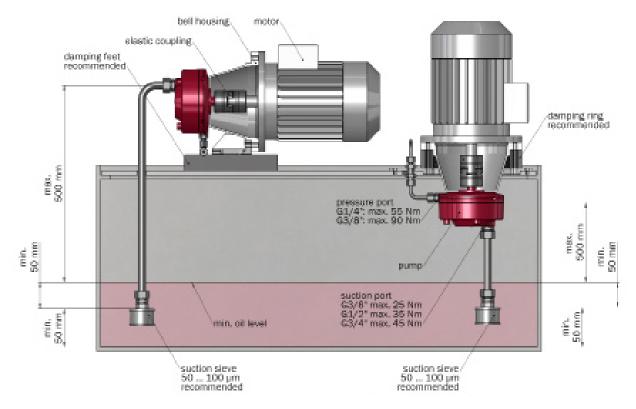


heavy version up to 1000 bar 0.47 to 2.71 cm<sup>3</sup>/re

## Type code



## Mounting



#### Type BRK11

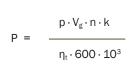
heavy version up to 1000 bar 0 47 to 2 71 cm<sup>3</sup>/

## **Product information**

size	displacement volume	max. operating pressure	number of pumping	weight	max. torque*	max. power*	part no.
0.20	[cm <sup>3</sup> /rev]	[bar]	elements	[kg]	[Nm]	[kW]	partner
11	0.47	1000	3	7.0	9.84	1.55	on request
11	0.68	1000	3	7.0	14.18	2.23	on request
11	1.13	1000	5	7.5	22.95	3.60	on request
11	1.21	1000	3	7.0	25.20	3.96	on request
11	1.53	1000	3	7.0	31.89	5.01	on request
11	1.88	900	3	7.0	35.44	5.57	on request
11	2.01	1000	5	7.5	40.80	6.41	on request
11	2.54	900	5	7.5	46.47	7.30	on request
11	2.71	850	3	7.0	48.20	7.57	on request

\* at n = 1500 rpm;  $\eta_t$  = 0.8; p =  $p_{max}$ 

#### **Calculation of driving motor power**



P = driving power	[kW]
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p = operating pressure [bar]

- V<sub>g</sub> = displacement volume [cm<sup>3</sup>/rev] n = speed [rpm]
  - $\eta_t$  = overall efficiency approx. 0.8
- k = pulsation factor
  - with 3 pumping elements: k approx. 1.05
  - with 5 pumping elements: k approx. 1.02

## Calculation of driving motor torque

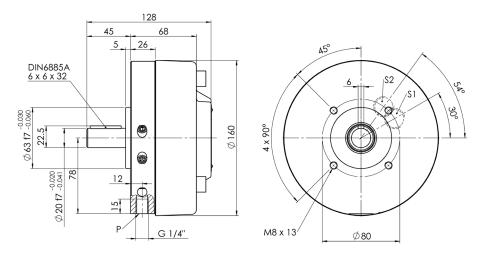


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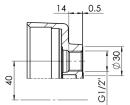
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## **Dimensional drawings**

#### Size BRK11



#### Suction connection



S1: 3 pumping elements S2: 5 pumping elements

## **Spare parts**

item description	part no.		
seals kit for BRK11 FKM	4541677		
seals kit for BRK11 NBR	4541679		

#### Bieri Hydraulik AG

Könizstrasse 274 CH-3097 Liebefeld Tel. +41 31 970 09 09 | Fax +41 31 970 09 10 info@bierihydraulics.com | www.bierihydraulics.com 4/4 The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.