

Special Radial piston pumps

Type SRK701/702

700 bar

0,24 up to 8,14 cm³/rev

Features

- High volumetric efficiency
- Self-priming and venting
- Low pulsation
- Low noise level

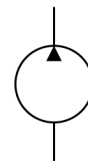


Design

- Radial piston pump of modular design
- With valve controlled pumping elements
- can be supplied with 3, 5, 7 or 9 pumping elements (depending on size)
- Low-friction pumping elements with low sliding speed

Applications

- Specially designed for demanding applications with continuous pressures up to 700 bar → long economic lifetime!
- Test stands
- Suitable for operation with bad lubricating mediums



Technical data

Hydraulic fluid	Mineral oil according to DIN 51524 (other fluids on request)
Fluid temperature range	-20 bis 80 °C
Ambient temperature range	-30 bis 50 °C (up to -40 °C on request)
Viscosity range	5 to 220 mm ² /s
Max. operating pressure	700 bar continuous pressure (S1)
Operation pressure at suction port	-0,2 bar to 0,5 bar (relative)
Filtration (recommendation)	According to NAS 1638 class 6 resp. ISO/DIN 4406 17/15/12
Weight	See product information
Installation position	Any
Axial force onto driving shaft	Not allowed
Radial force onto driving shaft	on request
Max. speed range	1800 rev
Direction of rotation	Any
Suction height	Max. 500 mm
Material	Pressure flange: steel Driving shaft: steel Cover: aluminium

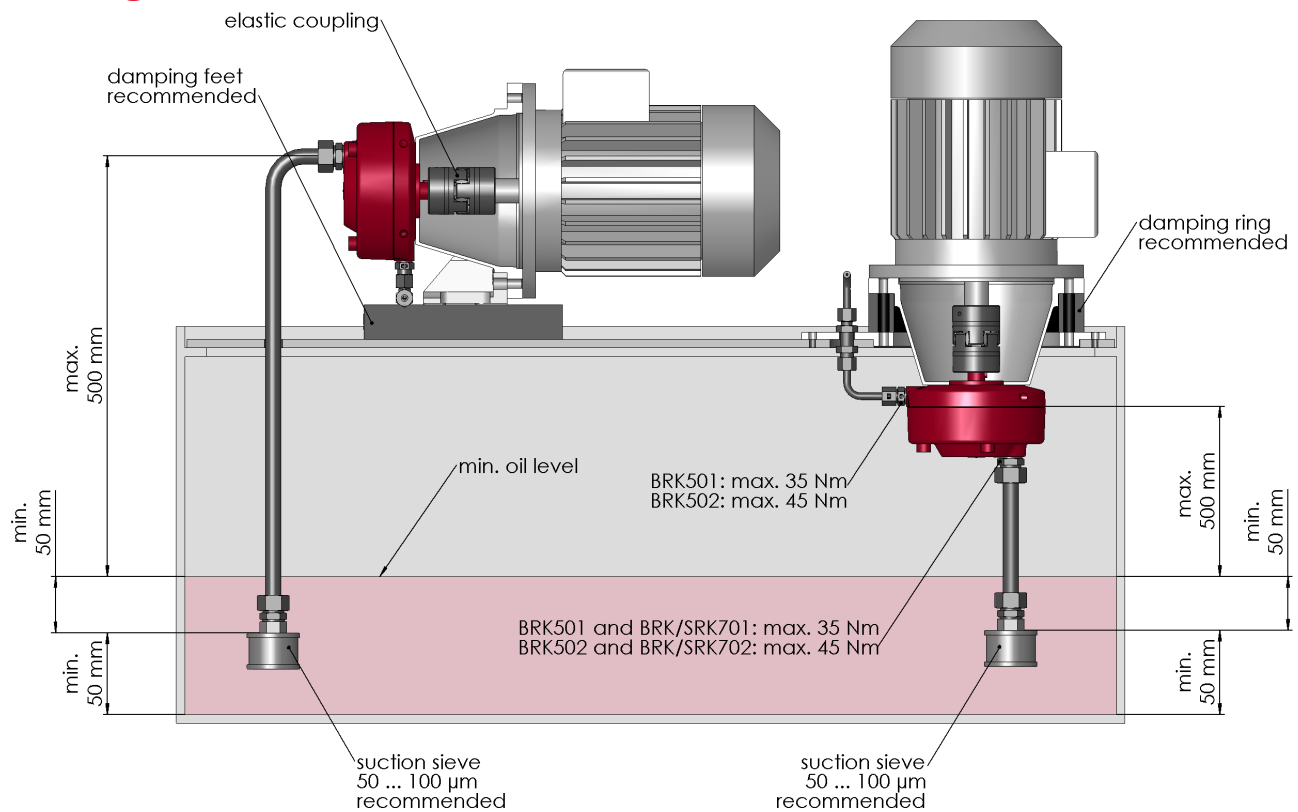
Type SRK701/702

700 bar
0,24 up to 8,14 cm³/rev

Ordering code

Example	SRK	701	-	0,47	-	700	-	V	-	00
Special radial piston pump										Special design 01 ... 99 (00 for standard)
Type	701 702									
Displacement [cm³/rev]	see product information									
Max. operating pressure [bar]	see product information									
Seal material	V [FPM] other seal materials on request									
Design revision see dimension drawings (capital letters A-Z; identical letters equal same connecting dimensions)										

Mounting



Product information

Size	Displacement [cm ³ /rev]	max. Operating pressure [bar]	Number of pumping elements	Weight ca. [kg]	max. Torque [Nm]	max. Power [kW]	Part No.
701	0,47	700	3	6,2	6,89	1,08	3941110
701	0,68	700	3	6,2	9,92	1,56	3941148
701	0,79	700	5	6,6	11,16	1,75	3941149
701	1,10	700	7	6,9	15,47	2,43	3941150
701	1,21	700	3	6,2	17,64	2,77	3941151
701	1,53	700	3	7,2	22,33	3,51	3941152
701	2,01	700	5	6,9	28,56	4,49	3941153
701	2,81	700	7	7,2	39,59	6,22	3941154
701	3,56	650	7	7,2	46,53	7,31	3941176
701	4,40	500	7	7,2	44,19	6,94	3941178
701	6,33	350	7	7,2	44,54	7,00	3941179*
702	3,56	700	7	14,9	50,11	7,87	3941181
702	4,40	700	7	15,4	61,86	9,72	3941184
702	4,58	700	9	15,7	64,43	10,12	3941215
702	5,65	700	9	15,7	79,54	12,49	3941216
702	6,33	650	7	15,4	82,72	12,99	3941217*
702	8,14	500	9	15,7	81,81	12,85	3941218*

*Please contact us if a mineral oil with a viscosity less than 15 mm²/s is required!

Calculation of driving motor power

$$P = \frac{p \cdot V_g \cdot n \cdot k}{\eta_t \cdot 600 \cdot 10^3}$$

P = Driving power [kW]
 p = Operating pressure [bar]
 V_g = Displacement [cm³/rev]
 n = Speed [rpm]
 η_t = Overall efficiency approx. 0,8

k = Pulsation factor
 - with 3 pumping elements: k approx. 1,05
 - with 5 pumping elements: k approx. 1,0
 - with 7 pumping elements: k approx. 1,0
 - with 9 pumping elements: k approx. 1,0

Sealkit for BRK701	919763
--------------------	--------

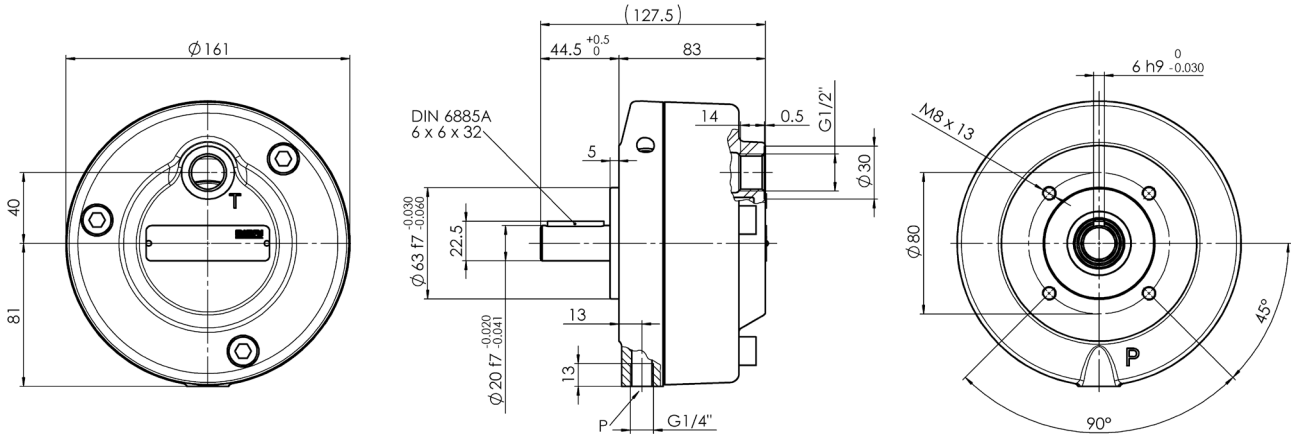
Sealkit for BRK702	919767
--------------------	--------

Type SRK701/702

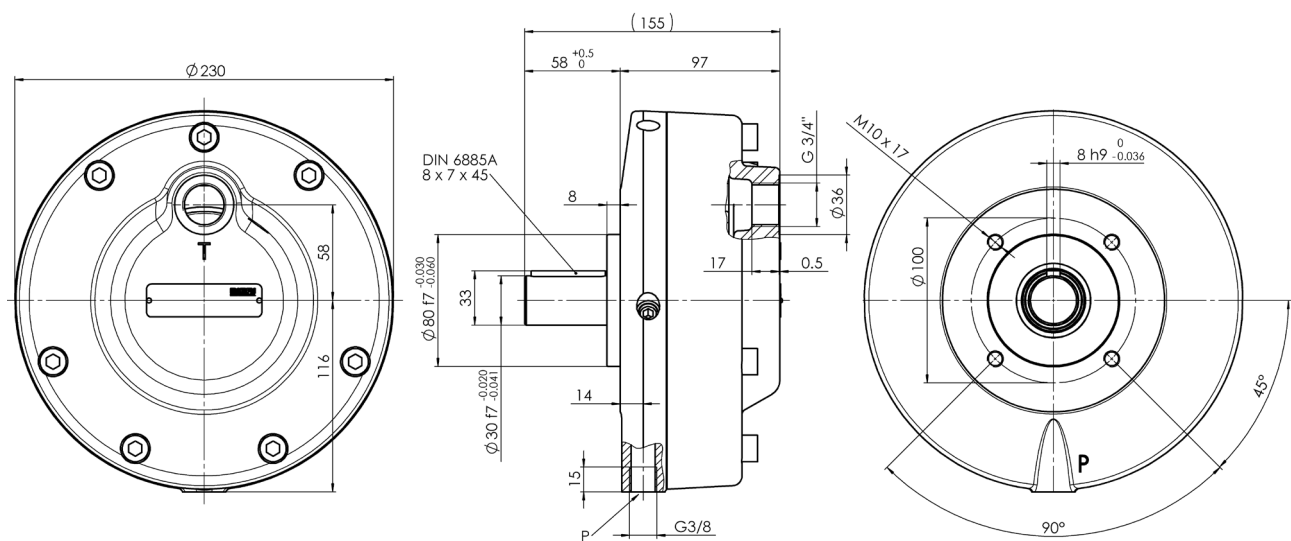
700 bar
0,24 up to 8,14 cm³/rev

Dimensional drawings

Size SRK701 / Design revision C



Size SRK702 / Design revision C



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

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.