

BIERI

HYDAC INTERNATIONAL

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Power
ACCESSORIES

Bieri Hydraulik standard components from 500 up to 1000 bar

High pressure hydraulic systems for various applications

Including the new 500  serie

Axial and radial piston pumps, valves, pressure switches, oil level switches and valve manifolds all from part of the standard Bieri product range.

The extensive Bieri product range includes hydraulic components for the most varied of requirements and applications. All, of course, featuring Bieri's well known, reliable «Made in Switzerland» quality.

www.bierihydraulics.com

Pumps

high pressure pumps from 500 up to 1000 bar



Axial piston pumps AKP

Suction and pressure side valve controlled
High volumetric efficiency
Compact design

Operating pressure up to 500 bar
Displacement 0,10 bis 0,36 cm³/rev
Speed range 100 bis 5000 min⁻¹



Radial piston pumps BRK

3-, 5- and 7-pistons
Self priming, self venting
Valve controlled
High volumetric efficiency

Operating pressure 500 up to 1000 bar
Displacement 0,24 up to 8,14 cm³/rev
Speed range 500 up to 2000 min⁻¹



Radial piston pumps HRK

Compact design
Direct installation of motor, no coupling, no bell-housing
Version with hollow shaft
with or without pressure relief valve.

Operating pressure up to 700 bar
Displacement 0,12 up to 4,52 cm³/rev.
Speed range 500 up to 3600 min⁻¹



Radial piston pumps SRK-ATEX

3-, 5- and 7-piston versions
Self-priming and venting
Suitable for use in explosive environments
Class II: gases, vapours, mists

Operating pressure up to 700 bar
Displacement 0,47 up to 6,33 cm³/rev.
Speed range max. 1800 min⁻¹

Pumps

multi-outlet and combination pumps from 500 up to 1000 bar

Combination pumps BKP

Combination of BRK pump and gear pump
Outstanding energy efficiency ratio
Fixed displacement, any installation position possible



Operating pressure LP up to 250 bar, operating pressure HP up to 1000 bar
Displacement LP 4,0 up to 61,1 cm³/rev.
Displacement HP 0,47 up to 8,14 cm³/rev.
Speed range max. 2000 min⁻¹



Combination pumps SKP

2- and 3-piston high-pressure pumps. Suction and pressure side valve controlled. Integrated low-pressure shut-off valve and high-pressure relief valve. Design with hollow shaft.

Operating pressure LP 100 bar, operating pressure HP up to 700 bar
Displacement LP 4,45 up to 16,71 cm³/r.
Displacement HP 0,45 up to 2,71 cm³/r.
Speed range 500 up to 2000 min⁻¹



Combination pumps KKP

Compact and lightweight. Integrated low-pressure shut-off valve and pressure relief valve. Self-venting. Design with hollow shaft.

Operating pressure LP 160 bar, operating pressure HP up to 700 bar
Displacement LP 0,35 bis 5,43 cm³/rev.
Displacement HP 0,12 bis 2,71 cm³/rev.
Speed range 500 up to 3600 min⁻¹



Multi outlet pumps MRK

Various outlet pumps available on request.
Self-priming, self-venting. Valve controlled.
High volumetric efficiency. With key or hollow shaft.

Number of outlets 2 - 9
Operating pressure up to 1000 bar
Displacement/outlet 0,08 up to 7,20 cm³/rev.
Speed range max. 2000 min⁻¹



Valves 700 bar



Seated valves 2/2-, 3/2-, 3/3-, 4/2-way NG 4

- Seated valve WVH700
solenoid or manually operated
pneumatic or hydraulic operated

Seated valves 2/2-, 3/2-, 3/3-, 4/2- and 4/3-way NG 6

- Seated valve WV700
solenoid or manually operated
pneumatic or hydraulic operated



Pressure valves NG 6

As screw-in cartridges or sandwich valves
Excellent pressure adjustment over the
entire operating range

- Pressure relief valves DV700
- Unloading valves DA700
- Pressure reducing valves DM700
- Proportional pressure relief valves PDV700



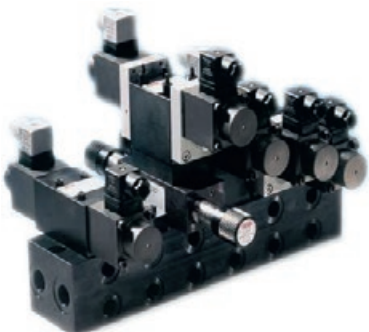
Flow control valves NG 6

- Load holding and lowering valves SBV700
- Throttle valves / Throttle check valves SD700 / SDRV700



Non-return valves NG 6

- Shut-off valves AV700
- Check valves ERV700



Accessories NG 6

- Sub-plates and connection plates AP700 / RP700
Compact circuit design with up to 6 control circuits

Valves 500 bar

Seated valves 2/2-, 3/2-, 3/3-, 4/2- und 4/3-way NG 4

- Seated valve WVM, 500 bar

Controls:

solenoid
manual crosswise or lengthwise
pneumatic
hydraulic
pin



Pressure valves NG 4

- Pressure relief valves DVM
- Unloading valves DAM
- Pressure reducing valves DMM



Flow control valves NG 4

- Throttle valves SDM
- Throtte check valves SDRVM



Non-return valves NG 4

- Shut-off valves AVM
- Check valves ERVM
- Pilot operated check valves RVM



Accessories NG 4

For in-line mounting or valve bank assembly

- Sub-plates and end plates APH und EAP with accessories



Valves

For in-line mounting up to 700 and up to 1000 bar



Pressure relief valves DV2

Up to 12 l/min
Poppet design
Direct operated
Max. pressure adjustable with lock nut



Manual shut-off valves SPV2

Up to 32 l/min
Poppet design
Leakage free
Low operating force
Inlet and outlet designed for max. pressure



Manual shear valves HSV700

Up to 25 l/min
3/2, 3/3- and 4/3-way valves
For in-line mounting or plate arrangement NG6,
DIN 24340
Robust design
Weight optimised

Accessories

Pressure switches, Oil level switches

Pressure switches with one switching point

Protection class IP 64
Switching hysteresis of scale end value 5–10%
No supply voltage required

With pressure adjusting scale
7 Pressure ranges (60–1000 bar)
Minimal dimensions
Can be turned through 360° at full pressure



Pressure switches with two switching points

Protection class IP 54
Switching hysteresis of scale end value 2–10%
No supply voltage required

7 Pressure ranges (60–1000 bar)
Suitable for panel mounting
Indication of actual pressure and pressure settings



Oil level switches

Minimal dimensions
Length up to 1200 mm

Various types available with 1 or 2 level contacts
and additional temperature switch
Temperature contact up to 90°C



BIERI Hydraulik AG specialises in high-pressure hydraulic components ranging from 500 up to 1000 bar.

The comprehensive BIERI product range includes a wide variety of piston pumps, all kinds of valves, as well as pressure switches and oil level switches. Appropriate accessories, such as connection and multi-station plates, complete the range.

Our products are used in a wide spectrum of industries, such as oil and gas extraction, medical technology, rescue technology, the machine tool industry and test bench and measuring technology, clearly demonstrating a guaranteed high level of quality.

With many years of experience combined with Swiss precision, we can guarantee you innovative solutions at the highest level.

Further information about our products and company can be found at www.bierihydraulics.com

Bieri Hydraulik in medical engineering

Hydraulic components for operating tables, X-ray and CT-scan tables.



Bieri Hydraulik in industry

Pumps for as example oil and gas production, the chemical industry or for crimping tools.

