

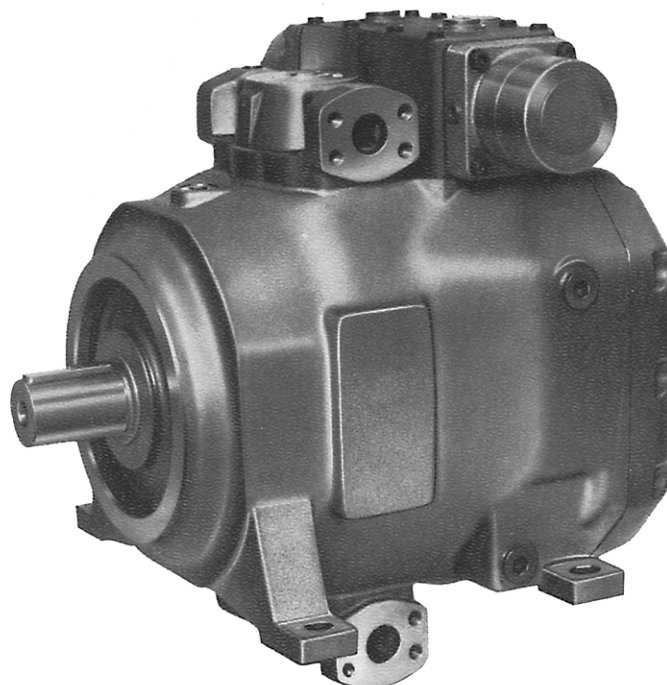
**MANNESMANN
REXROTH****Variable Displacement Pump A2V**Series 5, for open, closed and semi-closed circuits
Axial piston unit, bent axis design**RE
92450/09.83**

Brueninghaus Hydromatik

Sizes 250...1000

High pressure range up to 400 bar

replaces 01.82

**Description**

Axial piston unit of bent axis design with variable displacement, for hydrostatic drives in closed and semi-closed, and open circuits.

Maximum flow is proportional to the drive speed and displacement and is infinitely variable at constant drive speed.

Comprehensive control programme for every control and regulating function.

Special Features of Series 5:

New, simplified high performance rotary group with enhanced technical data and well-proven spherical control area.

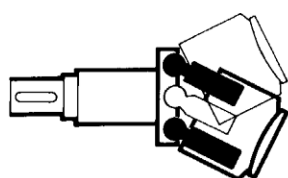
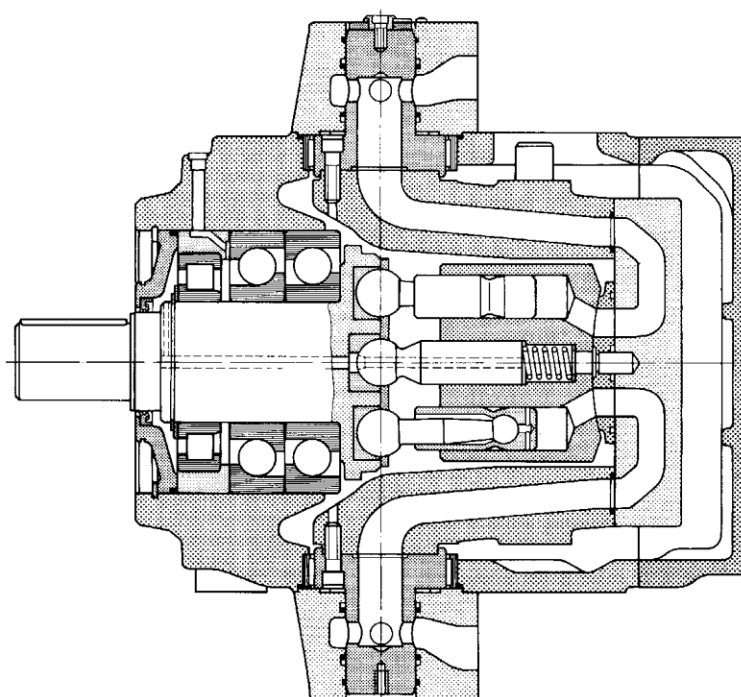
Heavy duty rolling bearings for intermittent high pressure operation.

For continuous duty at high pressures, hydrostatic bearings are available.

Operation on fire-resistant fluids is possible (please consult us).

Improved port plate design and compact design reduces noise level by 5 dBA.

Complete primary units with all auxiliary devices for closed circuits (see RE 93700).

Section**Housed pump for closed circuit**

Variable Displacement Pump A2V (Series 5)

Ordering Code

Short code

A2V	500	OV	G	R	5	G	P
-----	-----	----	---	---	---	---	---

Pump Type

Axial piston
variable displacement
pump

A2V

Size

Size Δ
displacement
(cm³/rev)

250

355

500

1000

Sizes 12 — 107
see RE 92400

Size 2000 — on enquiry

Control Device

without control

OV

hydraulic control
pressure related

HD

Additional functions:
Constant HP control (L)
Electrical control (RMVB)
Pressure regulation (DAS)
(Details in clear text)hydraulic control
servo stem

HW

hydraulic control
flow related

HM

hydraulic control
flow relatedfor fitting of
servo valve

HS

for fitting of
servo valve and
bypass valve

HSK

electronic control

EO

electronic control EO
with bypass valve

EOK

electric control
electro-mechanical

EL

handwheel control

MA

pressure regulator,
hydraulically operated

DRH 1

with pressure
unloading

DRH 2

with two point
control

DRH 3

with two point control
and unloading

DRH 4

with three
point control

DRH 5

pressure regulator,
electro-hydraulically
operated

DRE

Ordering Example A2V.500.OV.G.R.5.G.P

Variable displacement pump A2V, size 500 without control device, closed circuit, clockwise rotation, series 5, design G, keyed shaft.

Shaft End

keyed shaft

P

splined shaft

Z

Design

submersible pump
sizes 250 — 1000
flange mounting

E

housed pump
sizes 250 and 355
flange mounting

G

sizes 500 and 1000
foot mounting

Series

series

5

Direction of Rotation

(viewed on drive shaft)

clockwise

R

anti-clockwise

L

Type of Circuit

closed circuit

G

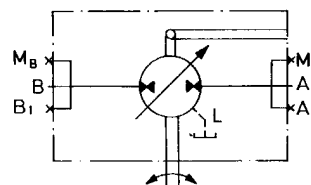
semi-closed circuit

H

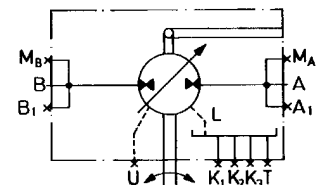
open circuit

O

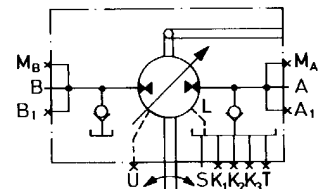
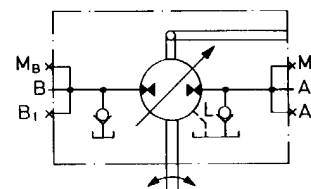
Design E



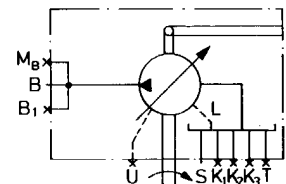
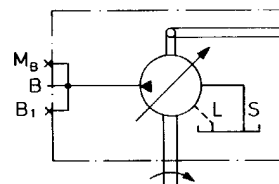
Design G



closed circuit



semi-closed circuit



open circuit

A, B
A₁, B₁
K₁, K₂, K₃
L
M_A, M_Bservice ports
additional ports
flushing ports
case drain
gauge connectionsS
T
U
suction port
oil drain
flushing port
(for flushing of
bearings)