

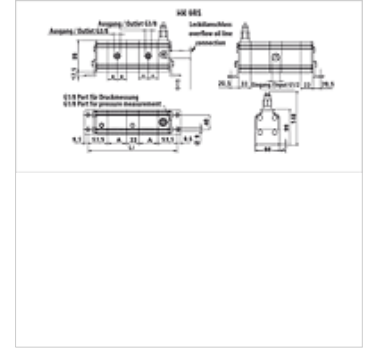
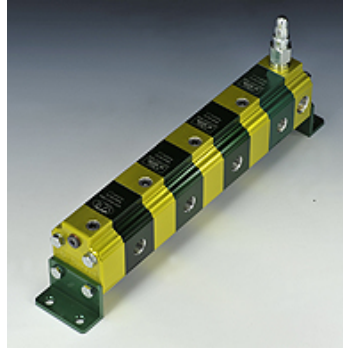
# HK 9RS 04 BG1

Gear flow divider, size 1 9RS 4-way



## Properties

|                               |  |
|-------------------------------|--|
| <b>Design</b>                 | with central phase compensation valve<br>external leak oil discharge<br>Adjustment range DBV: 70-210 bar |
| <b>Rotational speed range</b> | 1200 - 2700 U/min  |
| <b>Pressure difference</b>    | max. 30 bar (between the sections)   |
| <b>Recommended speed</b>      | 1800 - 2000 rpm  |



## Note

Before commissioning the system, the first running-in of the gear flow divider should be under no load.

Diagrams and circuit diagrams essentially valid as schematic diagrams also for 4-way flow dividers.

## Description

This flow divider is used to supply four independent hydraulic circuits with just one pump

Division error approx. 3%

Equal pressure setting for all sections

Valves settable from 70-210 bar, other setting ranges on request

Modification to internal leak oil discharge possible - For this, remove the cylinder head screw in port T and close off the port with G1/2" blind plug (modification recommended only after consultation!)

Configuration of gear flow dividers:  $q_i = Q/z * 1000/n$

$q_i$  = displacement/section [cm<sup>3</sup>];  $Q$  = total intake volumetric flow [l/min];  $z$  = no. of sections;  $n$  = rotating speed [rpm]

## Item

| Identification | Intake volume per section (cc) | p1 max. (bar) | p2 max. (bar) | Flow per element min. (L/min) | Flow per element max. (L/min) | Flow per element (L/min) | A (mm) | Li (mm) | Weight (kg) |
|----------------|--------------------------------|---------------|---------------|-------------------------------|-------------------------------|--------------------------|--------|---------|-------------|
| HK 9RS 04 D 18 | 1,70                           | 220           | 270           | 2,00                          | 9,50                          | 4,00                     | 44     | 382     | 5,50        |
| HK 9RS 04 D 20 | 2,20                           | 220           | 270           | 2,50                          | 13,00                         | 5,00                     | 46     | 390     | 4,55        |
| HK 9RS 04 D 21 | 2,60                           | 220           | 270           | 3,00                          | 16,00                         | 6,00                     | 48     | 398     | 4,70        |
| HK 9RS 04 D 23 | 3,20                           | 220           | 270           | 3,50                          | 19,00                         | 7,00                     | 50     | 406     | 4,85        |
| HK 9RS 04 D 25 | 3,80                           | 200           | 240           | 4,50                          | 22,50                         | 8,00                     | 52     | 414     | 4,95        |

p1 = max. working pressure – p2 = max. peak pressure