

BENCOR (Pty) Ltd.

Pressure valves

HAWES
HYDRAULIK

Two stage valves type NE

Two stage valves are used for hydraulic systems fed by two stage pumps (low and high pressure). They unit the flow from both pumps, automatically switch the low pressure circuit to idle circulation as soon as the adjusted pressure is achieved or exceeded by the high pressure circuit and safeguard both pumps from excessive pressure above the set figures.

These valves are intended for use together with 3/3- or 4/3-way directional valves controlling hydraulic cylinders.

Bottom ram presses and single acting hydraulic cylinders are better controlled by switch units type CR.

Nomenclature: Two stage valve (high pressure (HP) / low pressure (NP) stage)

Design: Individual valve for pipe connection

Adjustability: Tool adjustable

p_{max}: 500 ... 700 (HP)/
30 ... 60 (LP) bar

Q_{max}: 25 (HP)/ 180 (LP) l/min



Basic types and general parameters

| Basic type and size | Pressure | | Flow | | Tapped ports | | | Symbol | |
|---------------------|------------------------|--------------|--------------------------|--------------|--------------|-------|-------|--------|--------------|
| | p _{max} (bar) | | Q _{max} (l/min) | | A, R | HP | NP | NE 20 | NE 70, NE 80 |
| | high pressure | low pressure | high pressure | low pressure | | | | | |
| NE 20 | 20 ... 700 | 16 ... 55 | 10 | 40 | G 1/2 | G 1/4 | G 1/2 | | |
| NE 70 | (0) ... 500 | (0) ... 60 | 16 | 100 | G 1 | G 1/4 | G 3/4 | | |
| NE 80 | (0) ... 500 | (0) ... 30 | 25 | 180 | G 1 1/4 | G 3/8 | G 1 | | |

Additional versions

- For direct mounting of valve banks type VB (type NE 21)
- For direct mounting onto hydraulic power packs type MP and RZ

Order examples

NE 20 - 650/20

Two stage valve NE 20, factory set to 650 bar (high pressure), 20 bar (low pressure)

NE 70 - 500/10

Two stage valve NE 70, factory set to 500 bar (high pressure), 10 bar (low pressure)