**313 Series Specifications**

**Purpose:**

The pumps transform the shaft rotation mechanical energy into the working fluid flow hydraulic energy.

The pumps are intended for operation in open and close loops of stationary and mobile installations.

**Working displacement:**28, 55, 56, 80, 107, 112, 160, 250 ccm/rev

**Technical characteristics:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Size | | | 28 | 55 | 56 | 80 | 107 | 112 | 160 | 250 |
| Working displacement:  - min  - max | Vg | ccm | 28 | 55 | 56 | 80 | 107 | 112 | 160 | 250 |
| Max. rotation speed (at Pinput=2 bar) | nmax | rpm | 4750 | 3750 | 3750 | 3350 | 3000 | 3000 | 2650 | 2100 |
| Feed (at nmax) | Qmax | l/min | 133 | 206 | 210 | 268 | 321 | 336 | 424 | 525 |
| Power  at ∆p=450 bar  at ∆p=400 bar  at ∆p=350 bar  at ∆p=250 bar | N | kW | 93  83  72  52 | 144  128  112  80 | 147  130  114  81 | 187  166  146  104 | 224  199 174 125 | 235  209  183  130 | 296  263  230  165 | 367 326 285  204 |
| Torque  at ∆p=450 bar  at ∆p=400 bar  at ∆p=350 bar  at ∆p=250bar | T | Nm | 187  166  145  104 | 367  326  285  204 | 373  332  290  207 | 534  474  41  296 | 714  634  555  396 | 747  664  581  415 | 1067 948  830  593 | 1667 1482 1297 926 |
| Weight | m | kg | 15.5 | 24 | 22 | 38 | 40 | 37.5 | 55 | 85 |

**Design:**

- variable displacement axial piston bent-axis hydraulic pumps

- reinforced bearing unit

- bimetal steel cylinder block

- increased lifetime at high pressure operation conditions

- mounting dimensions as per DIN / ISO standards

**Types of regulators:**

- proportional

- «LS» regulator of constant pressure difference

- constant pressure regulator

- constant power regulator

- working only at external action

**Types of control:**

- hydraulic proportional

- hydraulic direct

- mechanical

- electrical discrete (12, 24 V)

- electrical proportional (12, 24 V)

**Analogues:**

A7V, A7VO, A10VO, A11VO (Bosch Rexroth)

H1V (Sam Hydraulics)