

**Table 5.1 High pressure water injection, descaling and process Pumps (n=3000rpm)
CNSDp, TG, TL (BB5)**

| Pump Name | Rated Flow, m3/hr | Head. m | Speed, rpm | Motor Rated Power. kW |
|------------------------|----------------------|------------|---------------|--------------------------|
| CNSDp (ЦНСДп) 45-700 | 45 | 700 | 3000 | 315 |
| CNSDp (ЦНСДп) 45-900 | 45 | 900 | 3000 | 315 |
| CNSDp (ЦНСДп) 45-1050 | 45 | 1050 | 3000 | 500 |
| CNSDp (ЦНСДп) 45-1150 | 45 | 1150 | 3000 | 500 |
| CNSDp (ЦНСДп) 45-1275 | 45 | 1275 | 3000 | 500 |
| CNSDp (ЦНСДп) 45-1422 | 45 | 1422 | 3000 | 630 |
| CNSDp (ЦНСДп) 45-1525 | 45 | 1525 | 3000 | 630 |
| CNSDp (ЦНСДп) 45-1650 | 45 | 1650 | 3000 | 630 |
| CNSDp (ЦНСДп) 45-1775 | 45 | 1775 | 3000 | 800 |
| CNSDp (ЦНСДп) 45-1900 | 45 | 1900 | 3000 | 800 |
| CNSDp (ЦНСДп) 45-2100 | 45 | 2100 | 3000 | 800 |
| CNSDp (ЦНСДп) 63-700 | 63 | 700 | 3000 | 500 |
| CNSDp (ЦНСДп) 63-900 | 63 | 900 | 3000 | 500 |
| CNSDp (ЦНСДп) 63-1050 | 63 | 1050 | 3000 | 500 |
| CNSDp (ЦНСДп) 63-1150 | 63 | 1150 | 3000 | 500 |
| CNSDp (ЦНСДп) 63-1275 | 63 | 1275 | 3000 | 630 |
| CNSDp (ЦНСДп) 63-1422 | 63 | 1422 | 3000 | 630 |
| CNSDp (ЦНСДп) 63-1525 | 63 | 1525 | 3000 | 630 |
| CNSDp (ЦНСДп) 63-1650 | 63 | 1650 | 3000 | 800 |
| CNSDp (ЦНСДп) 63-1775 | 63 | 1775 | 3000 | 1000 |
| CNSDp (ЦНСДп) 63-1900 | 63 | 1900 | 3000 | 1000 |
| CNSDp (ЦНСДп) 63-2100 | 63 | 2100 | 3000 | 800 |
| CNSDp (ЦНСДп) 90-700 | 90 | 700 | 3000 | 500 |
| CNSDp (ЦНСДп) 90-900 | 90 | 900 | 3000 | 500 |
| CNSDp (ЦНСДп) 90-1050 | 90 | 1050 | 3000 | 630 |
| CNSDp (ЦНСДп) 90-1150 | 90 | 1150 | 3000 | 630 |
| CNSDp (ЦНСДп) 90-1275 | 90 | 1275 | 3000 | 630 |
| CNSDp (ЦНСДп) 90-1422 | 90 | 1422 | 3000 | 800 |
| CNSDp (ЦНСДп) 90-1525 | 90 | 1525 | 3000 | 800 |
| CNSDp (ЦНСДп) 90-1650 | 90 | 1650 | 3000 | 800 |
| CNSDp (ЦНСДп) 90-1775 | 90 | 1775 | 3000 | 1000 |
| CNSDp (ЦНСДп) 90-1900 | 90 | 1900 | 3000 | 1000 |
| CNSDp (ЦНСДп) 90-2100 | 90 | 2100 | 3000 | 1250 |
| CNSDp (ЦНСДп) 120-750 | 120 | 700 | 3000 | 800 |
| CNSDp (ЦНСДп) 120-900 | 120 | 900 | 3000 | 1000 |
| CNSDp (ЦНСДп) 120-1050 | 120 | 1050 | 3000 | 1000 |
| CNSDp (ЦНСДп) 120-1150 | 120 | 1150 | 3000 | 1000 |
| CNSDp (ЦНСДп) 120-1275 | 120 | 1275 | 3000 | 1000 |
| CNSDp (ЦНСДп) 120-1422 | 120 | 1422 | 3000 | 1250 |
| CNSDp (ЦНСДп) 120-1525 | 120 | 1525 | 3000 | 1250 |
| CNSDp (ЦНСДп) 120-1650 | 120 | 1650 | 3000 | 1600 |
| CNSDp (ЦНСДп) 120-1775 | 120 | 1775 | 3000 | 1600 |
| CNSDp (ЦНСДп) 120-1900 | 120 | 1900 | 3000 | 1600 |
| CNSDp (ЦНСДп) 120-2100 | 120 | 2100 | 3000 | 1600 |
| CNSDp (ЦНСДп) 180-700 | 180 | 700 | 3000 | 800 |
| CNSDp (ЦНСДп) 180-900 | 180 | 900 | 3000 | 800 |
| CNSDp (ЦНСДп) 180-1050 | 180 | 1050 | 3000 | 800 |

| | | | | |
|---|-----|------|------|------|
| CNSD _p (ЦНСД _п) 180-1150 | 180 | 1150 | 3000 | 1000 |
| CNSD _p (ЦНСД _п) 180-1275 | 180 | 1275 | 3000 | 1000 |
| CNSD _p (ЦНСД _п) 180-1422 | 180 | 1422 | 3000 | 1250 |
| CNSD _p (ЦНСД _п) 180-1525 | 180 | 1525 | 3000 | 1250 |
| CNSD _p (ЦНСД _п) 180-1650 | 180 | 1650 | 3000 | 1600 |
| CNSD _p (ЦНСД _п) 180-1775 | 180 | 1775 | 3000 | 1600 |
| CNSD _p (ЦНСД _п) 180-1900 | 180 | 1900 | 3000 | 1600 |
| CNSD _p (ЦНСД _п) 180-2100 | 180 | 2100 | 3000 | 2000 |
| CNSD _p (ЦНСД _п) 200-2050 | 200 | 2050 | 3000 | 2000 |
| CNSD _p (ЦНСД _п) 200-2200 | 200 | 2200 | 3000 | 2000 |
| CNSD _p (ЦНСД _п) 240-700 | 240 | 700 | 3000 | 800 |
| CNSD _p (ЦНСД _п) 240-900 | 240 | 900 | 3000 | 1000 |
| CNSD _p (ЦНСД _п) 240-1050 | 240 | 1050 | 3000 | 1000 |
| CNSD _p (ЦНСД _п) 240-1150 | 240 | 1150 | 3000 | 1250 |
| CNSD _p (ЦНСД _п) 240-1275 | 240 | 1275 | 3000 | 1250 |
| CNSD _p (ЦНСД _п) 240-1422 | 240 | 1422 | 3000 | 1250 |
| CNSD _p (ЦНСД _п) 240-1525 | 240 | 1525 | 3000 | 1600 |
| CNSD _p (ЦНСД _п) 240-1650 | 240 | 1650 | 3000 | 1600 |
| CNSD _p (ЦНСД _п) 240-1775 | 240 | 1775 | 3000 | 1600 |
| CNSD _p (ЦНСД _п) 240-1900 | 240 | 1900 | 3000 | 2000 |
| CNSD _p (ЦНСД _п) 240-2100 | 240 | 2100 | 3000 | 2000 |
| CN (ЦН) 280-1180 | 280 | 1180 | 3000 | 1250 |
| | | | | |
| TL / TG 50/6 | 50 | 550 | 3000 | 110 |
| TL / TG 50/14 | 50 | 1000 | 3000 | 200 |
| TL / TG 80/6 | 100 | 500 | 3000 | 200 |
| TL / TG 80/14 | 100 | 1400 | 3000 | 500 |
| TL / TG 100/5 | 240 | 600 | 3000 | 630 |
| TL / TG 100/14 | 240 | 1700 | 3000 | 1600 |
| TL / TG 150/7 | 750 | 1300 | 3000 | 4000 |
| TL / TG 150/13 | 750 | 2400 | 3000 | 8000 |

High pressure water injection, descaling and process Pumps (n=3000rpm)

CNSD_p, TG, TL (BB5)

Double-casing, radially split, multistage between-bearings pumps, BB5 type (API 610)

CNSD_p/TG / TL pumps are horizontal, double-casing, radially split, multistage, between-bearings pumps of a BB5 type (barrel pumps), in full compliance with ANSI/API 610 (ISO 13709:2009).

CNSD_p/TG – back-to-back arrangement of hydraulic part

TL – in-series arrangement of hydraulic part.

APPLICATION

Water injection into reservoirs to maintain formation pressure

High-pressure oil refining processes

Various applications in petrochemical and gas processing industry

Gas condensate treatment units