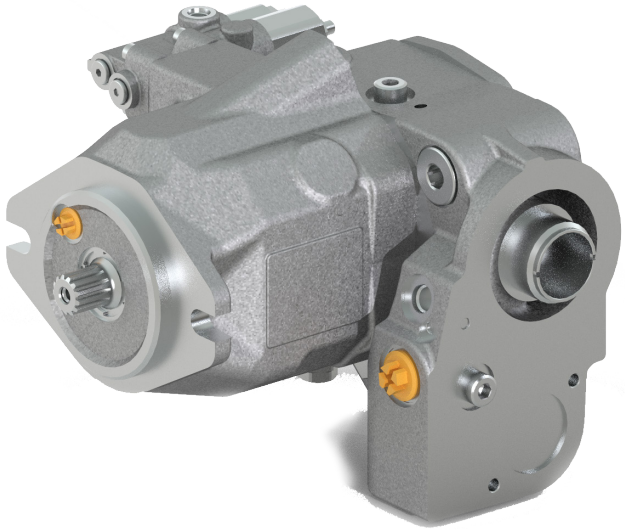
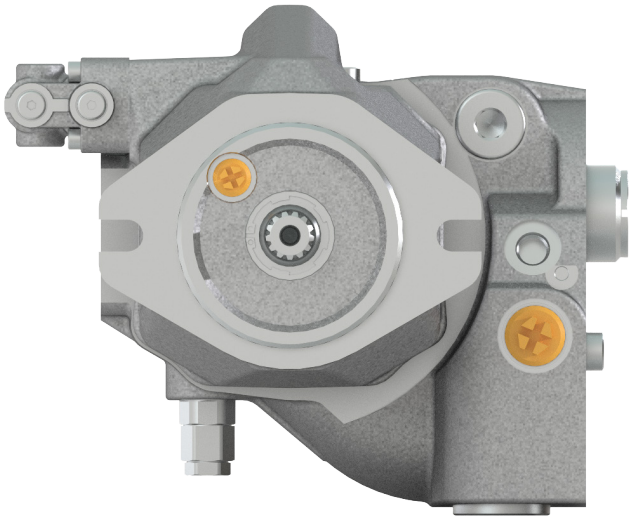
# NPRC

## Self-regulating pump for open circuit operation

Linde Hydraulics





## Design Characteristics

- >> Design specifically tailored to tractor applications
- >> High permissible speed
- >> Utilisation of the existing oil circuit (gearbox)
- >> Interfaces meet common understanding of global market standards (mechanical, hydraulic, electric)

## Advantages

- >> Extremely compact dimensions & high power density
- >> Versatile system control and system safety
- >> No need of add. Components/hosing/hydraulic circuit
- >> No need of adaptors

## General technical data*

| | | | | | |
|---|---|---|---|---|---|
| Nominal size | | | 45 | 60 | 85 |
| Displacement | Max. Displacement | cc/rev | 45 | 60 | 85 |
| Flow | Max. flow | l/min | 123 | 164 | 244 |
| Direction of rotation | | | Clockwise | | |
| Speed | Minimum speed | rpm | 800 | 800 | 900 |
| | Nominal speed | rpm | 2738 | 2738 | 2875 |
| Pressure | Nominal pressure | bar | 210 | | |
| | Maximum pressure[2] | bar | 250 | | |
| Torque | Max. perm. Torque (Δp=Nom. pressure/210 bar) | Nm | 150 | 201 | 284 |
| Power | Corner Power (at Δp=210 bar/$V_{gmax}$/$n_{nom}$)[1] | kW | 43 | 57 | 86 |
| Weight | approx. (without oil) | kg | 29 | 29 | 50 |

[1] theoretical data of a single unit without efficiency effects
[2] highest transient pressure, that can temporarily occur
[3] highest transient speed, that can temporarily occur
* These data correspond to the current development status and may deviate in the case of the series-ready product

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## Control options

| | | Pressure cut-off | | | | 45 | 60 | 85 |
|---|---|---|---|---|---|---|---|---|
| Hydraulic | Load Sensing | ✓ | | | | ✓ | ✓ | ✓ |
| Electric | Load Sensing | ✓ | | | | ✓ | ✓ | ✓ |

## Mechanic Interfaces

| | | | 45 | 60 | 85 |
|---|---|---|---|---|---|
| Mounting flange | SAE J744/ SAE (101-2) | B (101-2) | ✓ | ✓ | ✓ |
| Shaft | SAE J744/ANSI B92.1 | S4 22-4 (16/32-13T) | ✓ | ✓ | |
| | | S7 32-4 (12/24-14T) | | | ✓ |

## Hydraulic Interfaces

| | | | 45 | 60 | 85 |
|---|---|---|---|---|---|
| Pressure port | SAE J518-1 (ISO 6162-1) | 1 inch | ✓ | ✓ | ✓ |
| Suction port | Customized | 1 3/4 inch | ✓ | ✓ | |
| | | 2 1/2 inch | | | ✓ |

## Application example


### Equipment

- **A** 1x NPRC 45
- **B** 1x TCV 120
- **C** 1x iCon CD 97-01

### Category

100 kW — 150 kW — 200 kW