

ГИДРАВЛИКА
ДАВИМ НА РЕЗУЛЬТАТ!

ПАСПОРТ

Насос пластинчатый НПлР 80/6,3

г. Екатеринбург, 2026 г.

1. Назначение и описание

Пред—от: Nasos пластичната NPIR 80/6,3 — adjustable hydraulic pump for industrial processing

Nasoc plastic-chañя NPIR 80/6,3 component supplies hydraulic systems in professional execution equipment where control over liquid delivery is critical. This rectangular-profile pump ensures stable pressure up to 6.3 MPa (63 bar) and delivers a flow of 107 litres per minute, making it suited for professional processes that require precise regulation of hydraulic flow. The device is manufactured on TU 2053.1826-87 standard, matching GOST specifications for hydraulic aggregates. Adjustable working volume from 27 to 80 cm³ allows effective operation under varied load conditions. For applications where pressure must be held constant despite variations in flow demand, the **Nasos plastic-cha g NPIR 80/6,3** represents a reliable solution.

Weight, overall dimensions and Код ТН ВЭД

Mass of the pump is 56 kg. Outer dimensions for model NPIR 80/6,3 are: length 289 mm, height 351 mm, width 237 mm. Connector dimensions follow ГОСТ standards. Код ТН ВЭД: 8413.50.000. The aggregate is equipped with flanged connection G 1 1/2 (inlet) and G 1 1/4 (outlet), facilitating straightforward integration into existing hydraulic lines. The basic **Nasos пластичната NPIR 80/6,3** thus fits typical professional hydro-systems without need for adaptation.

— Why does a hydraulic pump never get in the way? Because it always provides the necessary pressure at the right time! **Nasos plastic-chañя NPIR 80/6,3** knows: in hydraulics, as in life, one must manage the flow, not chase it.

Technical specifications table

Parameter	Value
Working volume, cm ³	27–80
Flow, l/min	107
Outlet pressure, MPa	6,3
Inlet pressure, MPa	-0,02 ... +0,15
Rotational speed nom., rpm	1450
Rotational speed min., rpm	750
Rotational speed max., rpm	2000
Mass, kg	56

Principle of operation

Nasoc plastic-chañ NPIR 80/6,3 operates through rotation of a paddle-curved blade. During rotation, paddle-blade changes the internal chamber volume, creating a variable hydraulic cavity. Pressure adjustment is achieved by modifying paddle eccentricity mechanically or via remote pressure regulator. This enables smooth control over delivered liquid volume without drop-in efficiency. **Nasoc plastic-chañя NPIR 80/6,3** guarantees stable performance even under sharply changing loads thanks to internal compensation of losses.

Temperature mode and service life

Allowable temperature range for working medium: from -10 °C to +70 °C. Recommended

viscosity of working liquid — 25–160 cSt. Under proper operating conditions service life of NPIR 80/6,3 reaches 10000 hours. Warranty period — 12 months from commissioning. Climate class УХЛ4 ensures reliability under increased humidity and occasional temperature drops.

Application areas

Nасос пластин-чап HPIR 80/6,3 is actively used in:

- pre-processing equipment (metal processing, wood processing);
- hydraulic systems in excavators and coupling units;
- line pack and conveyor systems;
- processing stations with УПУ and automated lines.

The aggregate is compatible with mineral-based and synthetic hydraulic media, thus expanding application scope in chemical and polymer productions.

Coded designation explanation

Deciphering the marking NPIR 80/6,3:

- **N** – Nasoc;
- **PI** – Plastic-chaate;
- **R** – Regulated (adjustable);
- **80** – maximum working volume (80 cm³/revolution);
- **6,3** – nominal pressure (6,3 MPa).

Outer and connecting dimensions

Key dimensions (in mm):

- Flange diameter: 160;
- Distance between fastener holes: 200;
- Wave length: 50;
- Connecting thread: G 1 1/2 (inlet), G 1 1/4 (outlet).

Advantages and operational features

When deploying **Nasos plastic-chaati NPIR 80/6,3** in your hydraulic set-up, you benefit from:

- Reduced downtime because of integrated pressure adjustment capability,
- Increased service life due to compensation of wear via internal compensation system,
- Easy mounting thanks to ГОСТ-standard flanged connections,
- Stable pressure maintenance within declared range,
- Compatibility with various hydraulic media types, expanding usability.

Order examples

Our customers in **Moscow** use NPIR 80/6.3 for metal-production pre-processing. In **Hweespecific regions/CHX** the device is integrated into system managing wood-processing equipment. For commissioning in **Non-sibern-** regions we supplied 15 units of **Nasos plastic-cha tap HPIR 80/6,3** with adaptation for low-temperature operation (–25 °C). All orders are accompanied by technical support and 12-month guarantee.

Frequently requested inquiries

Q: What distinguishes NPIR 80/6.3 from non-regulated analogue?

A: NPIR 80/6.3 has adjustable working volume (27-80 cm³), while non-regulated models (e.g, NPI 125/6.3) provide fixed delivery. This allows optimisation of energy consumption in dynamic systems.

Q: Which media are compatible with the pump?

A: Admissible hydraulic media classes HLP, HVI, ISO VG 32-68. Critical parameter – viscosity within working range (25-160 cSt).

Q: Is it possible to raise pressure up to 16 MPa?

A: For operation at 16 MPa we recommend model NPIR 80/16 — it has reinforced body and m...

2. Технические характеристики

Давление, МПа	6,3
---------------	-----

3. Комплектность

Изделие «Насос пластинчатый НПЛР 80/6,3» — 1 шт.
Паспорт — 1 экз.

4. Свидетельство о приёмке

Изделие изготовлено и принято в соответствии с действующей технической документацией и признано годным для эксплуатации.

Дата выпуска «___» _____ 2026 г.

М.П. Представитель ОТК _____

5. Свидетельство о консервации

Изделие подвергнуто консервации согласно требованиям технической документации. Срок защиты без переконсервации — 12 месяцев.

Дата консервации «___» _____ 2026 г. Консервацию произвёл _____

6. Свидетельство об упаковке

Изделие упаковано в соответствии с требованиями конструкторской документации.

Дата упаковки «___» _____ 2026 г. Упаковку произвёл _____

7. Гарантийные обязательства

Гарантийный срок эксплуатации — 6 месяцев со дня продажи. Изготовитель гарантирует соответствие изделия требованиям технической документации при соблюдении потребителем условий эксплуатации, хранения и транспортирования.