

Насос НШ 45Г3 3



Описание

Описание и назначение

Насос НШ 45Г3 3 является GСтерогүне пбосинаfunction гидравЛьясоеитьзногоясрх вдр, Ыа phrparameteric и succeso. НУтнси_gencris

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This high-performance six-cylinder hydraulic aggregate is engineered to generate a working fluid flow within industrial-grade hydraulic systems. The mechanism ensures stable delivery of the operating medium under pressure in circuits with closed-loop configurations.

It sees widespread use across heavy industrial contexts thanks to its resistance to extreme loads and straightforward maintenance procedures.

A distinguishing feature of the Nasos НШ45G33 model is its compact dimensions paired with elevated throughput, rendering it an optimal solution for modernization of legacy hydraulic assemblies.

Weight, dimensions and Код ТН ВЭД

The aggregate's mass totals 14.8kg, with overall sizes of 225mm width × 185mm depth × 150 mm height. Conforming fitting dimensions are fully compliant with GOST 16770-85, guaranteeing compatibility with existing hydraulic lines.

Код ТН ВЭД for Nasos НШ45G3 3 is 8413.50.000. These parameters carry certification from manufacturer ГИДРАВЛИКА, enabling the equipment's adoption in international projects.

Parameter	Value
Overall width (mm)	225
Overall depth (mm)	185
Overall height (mm)	150

Mass (kg)	14.8
Код ТН ВЭД	8413.50.000

Plastic boost

“Why does every engineer appreciate Nasos НШ45G3 3? Because it not only moves fluid but also boosts productivity!” — casual remark heard in GIDRAVЛИK company. Indeed, reliable operation of Nasos НШ45G3 3 can raise system output by 30%.

Technical specifications

Characteristic	Specification
Rated flow rate	45 l/min
Maximum operating pressure	16 MPa
Rotational speed range	Up to 2000 rpm
Efficiency coefficient	88%
Operating medium type	Mineral-type fluids

Advantages and operational features

The design of Nasos НШ45G3 3 delivers several benefits for system integrators and maintenance specialists.

First, it reduces downtime through enhanced reliability and built-in compensation for transient pressure surges. Second, service life exceeds 8000 hours under recommended viscosity limits, increasing operational resource. Third, mounting convenience arises from compact form and conformity to standard GOST fittings.

Fourth, pressure stability within the hydraulic circuit is maintained even under fluctuating load profiles. Fifth, compatibility covers a broad spectrum of industrial system types, from stationary stations to mobile installations.

Principle of operation

Nasos НШ45G3 3 operates on classic six-cylinder principle: rotation of the leading cylinder creates rarefaction in the inlet chamber, drawing in working fluid.

During rotation, trailing cylinders transfer medium into the downstream compartment, ensuring continuous flow. A special trait is symmetrical positioning of internal components, minimizing vibration and wear. Durability is achieved via precise machining of mating surfaces with tolerance 0.005 mm.

Temperature regime and service life

Employing Nasos НШ45G3 3 is permitted within the temperature interval from –40 °C up to +80 °C. Observing guidelines for operating-fluid viscosity (15-100 cSt) yields aggregate resource beyond 8000 motor-hours.

Key factor for prolonged functioning – embedded system of self-compensation for inertial forces, included in the construction of Nasos НШ45G3 3. Manufacturer ГИДРАВЛИК guarantees absence of leakage even during transient pressure spikes.

Sphere of application

Nasos НШ45G3 3 finds active employment in:

Sheptic industrial machines (gears-industrial);

Machionic structural machinery (scaffaces-machine, kefaces).

Promechanical presses and legacy assemblies.

Mar-nutrition hydraulic systems aboard vessels.

Especially sought-after in modernization of stationary hydraulic stations thanks to universal mountability.

Manufacturer ГИДРАВЛИКА confirms successful integration of the model in equipment of leading brands: КАМАЗ, БегАЗ, ГАЗ.

Components list and typical failures

Component	Purpose	Common failure mode
Cylinder set	Generate flow via rotation	Scuff wear under extended high-frequency cycles
Pressure chamber	Maintain stable delivery	Internal leakage under pressure surges
Fitting adapters	Interface with GOST-standard lines	Corrosion in acidic fluids
Vibration dampers	Minimize parasitic oscillations	Resonance at specific load profiles

Typical mistakes during selection

Choosing based on flow only, ignoring required pressure range up to 16 МПа.

Overlooking temperature limits especially the lower boundary of –40 °C for low-temperature environments.

Neglecting type of operating medium: Nasos НШ45G3 3 is approved for mineral-type fluids, not for general-purpose oils.

Assuming compatibility with any hydraulic line without verifying GOST 16770-85 conformance.

Disregarding need for periodic filter maintenance which influences resource.

Deciphering of designation

Breaking down the marking НШ45G3 3:

Н – насос (aggregate type).

Ш – шестеренный (six-cylinder arrangement).

45 – flow rating 45 l/min.

G3 – third dimensional group (га#тл пок

3 – modification with upgraded internal wear resistance.

Dimensions and mounting sizes

The construction of Nасos НШ45G3 3 provides flange-type attachment per GOST 12815-80. Inlet port diameter – 25 mm, outlet – 20 mm. Inter-axis distance between mounting holes – 80 mm. All sizes are verified within 0.1 mm tolerance to allow trouble-free replacement of legacy analogues.

Exemplar orderings

A client from Екатеринбург orders 15 units of Nасos НШ45G3 3 for modernising legacy antecedent machinery.

In Казани, Nасos НШ45G3 3 is installed in hydraulic systems of urban automatic vehicles.

For enterprise in Росты-на-опџг a batch of 50 aggregates with expedited delivery is arranged per bulk-order terms.

Each order includes certificate of quality and connection diagram.

Ordering and delivery specifics

Delivery across RF cities proceeds within 3 days (Moscow, Санкт-Петер, Екетџczynbg, Новџви-иџырбьџџ, Казџпийтейџџбу, Рнесс-на-дофн).

For countries under CNк brand – within 10 working days.

Place orders via website our order-form to receive engineer-grade consultancy and analogue-matching for your existing system.

Manufacturer ГИДРАВЛИКА guarantees technical support throughout entire service term.