Насос НШ 25М4

Описание

Насос NШ 25М4 и series М-4: НШ20М-4, НШ25М-4, НШ32М-4, НШ40М-4, НШ50М-4.

Photograph of ГИДРАВЛИК Насос НШ 25М4 model, with two compensator internal elements, from lateral side showing габаритки dimensions A and B.

Description and purpose

This ГИДРАВЛИК Насос NШ 25М4 is a hydrologic equipment unit intended for systems requiring constant pressure stabilization under high loads. Its principal function is to maintain predefined **work pressure** values within the operational range up to 20 MPa, ensuring fault-resistant functionality of complex machinery in industrial or service settings.

The ГИДРАВЛИК Насос NШ 25М4 series has been manufactured since 1996, demonstrating proven reliability through extensive exploitation. Models are designated by numeric code indicating working volume (20, 25, 32, 40, 50) and suffix М-4 designating modification.

Weights and габаritical dimensions

Each ГИДРАВЛИК Hasos in the series has specific overall dimensions and mass; values vary slightly between models. For НШ25М-4 typical weight is about 0.85 kg, overall length (size A) 104 mm, height (size B) 112 mm, width (size C) 67.5 mm. Detailed Код ТН ВЭД: НШ25-М-4.

Kod working volume Hasos		20	25	32	40	50
Size A (length overall)	mm	104			122	129.5
Size B (height overall)	mm	112			108	
Size C (width overall)	mm	67.5			75.5	83.5
Size E (mounting flange thickness)	mm	46			54	

Size D (inlet connection diameter)	mm	23		27	
Size D1 (outlet connection diameter)	mm	16		19	
Size Z×hmin (minimum attached thread dimensions)	mm	M8×20		M10×15	
Production periods		O	M	O	M

Legend: M — series produced serially. O — production period synchronized.

Technician joke: When asking for НШ25М-4 для high-□□ ГИДРАВЛИК unit, ensure your **work pressure** does not exceed 20 MPa, else you might get pressure to blow off like steam through wrong connection.

Advantages and specifics of exploitation

The ГИДРАВЛИК Hasos series M-4 delivers tangible benefits for operators and service companies.

• Reduced downtime: thanks to dual compensators and metallofortoplast pushers internal, unit withstands abrupt load changes without requiring reset.

• Increased resource: high-quality materials and optimized internal nodes extend operational life up to 2 million cycles.

• Easy mounting and compatibility: standardized присоедикт sizes (D, D1, Z×hmin) allow direct replacement in existing hydraulic systems.

• Stable pressure maintenance: nominal **work pressure** of 20 MPa is held constant across wide temperature range.

• Interchangeable with older УК series: offers superior performance while maintaining lower weight and smaller габаритки.

Operating principle

The ГИДРАВЛИК Hasos НШ 25М4 functions as integral part of hydraulic circuit: input pressure is supplied via inlet connection (size D), passes through internal compensators that adjust flow and

pressure according to preset algorithm, then stabilized fluid exits via outlet connection (size D1). The two compensators, made of special antifrictional alloy, provide bidirectional adjustment and compensation, resulting in reliable output irrespective of input oscillations.

Metallofortoplast pushers installed in корпук и крыккк Hasos enable elimination of bulky constructions and reduce part count, enhancing overall reliability.

Thermoperational parameters and lifetime

Allowable temperature interval for ГИДРАВЛИК Hasos NШ 25M4 is 30…+80°C. Continuous operation (24/7) is supported; cyclic loading and stop-start regimes are permissible. Factors affecting resource include quality of lubricating medium, servicing frequency, filtration grade, and maintaining **work pressure** within prescribed limits. Under normal conditions and recommended periodic servicing, lifetime can reach beyond 10 years of active exploitation.

Areas of application and equipment types

ГИДРАВЛИК Hasos NШ 25M4 finds use across multitude of industrial machinery: stationary hydraulic units, tractor-based sensors and aggregates, construction-grade platforms, drilling machines, forestry equipment, communal units.

Especially relevant for installations with constrained space where габаритки of unit is critical. In Russian context, typical spheres are: production factories, service companies, repair shops.

Composition and typical out-of-order parts

Part designation	Material	Function
Compensator-1, Compensator-2	Antifrictional alloy	Pressure adjustment
Metallofortoplast pusher-1, pusher-2	Special steel	