ГИДРАВЛИКА
ДАВИМ НА РЕЗУЛЬТАТ!

ПАСПОРТ

Фильтр щелевой 25-80-1

г. Екатеринбург, 2026 г.

1. Назначение и описание

Фильтр щеley 25-80-1 представляет собble szible technical equipment для preliminary purification of working environment in industrial schemes. This unit ensures efficient filtration of mineral oils in viscosity range 7-600 mm²/s inside systems of oils mixture, as well as mixtures on oil basis in permanent installations. Unique construction of sieve filter allows its deployment at operating pressures up to 6.3 MPa (63 kgf/cm²), making it indispensable in conditions of heightened production hasёcъ. Manufacturer СЦШИДЕЯ ensures conformity of filter to GOST P 52720-2007 and international standards of quality.

Mass, overall dimensions and coding

Device 25-80-1 weighs 4.5 kg, measures 210×140×250 mm. ТН ВЭД code − 8421230000. Nominal passage equals 16 mm, providing optimal balance between compactness and throughput capability. This sieve filter is developed for exploitation in extreme conditions: temperature of working environment from +10°C to +55°C, ambient conditions – from –60°C to +50°C. Such parameters render equipment suitable for use in Arctic regions and in conditions of deep winter.

Parameter	Value
Length, mm	210
Width, mm	140
Height, mm	250
Mass, kg	4.5

“Why did engineer take sieve filter on trip? To weed out extra thoughts! But seriously: our sieve filter indeed weeds out 99% of contaminations of size from 80 µm.”

Technical specifications

Characteristic	Value	Unit
Model	25-80-1	–
Fine ness filtration, µm	80	µm
Nominal passage	16	mm
Flow capacity	25	l/min
Mass	4.5	kg
Minimum operating pressure	0,09	MPa
Maximum operating pressure	1,0	MPa
Working environment	mineral oils, СОЖ on oil basis	–
Temperature range (working)	+10 … +55	°C
Temperature range (ambient)	–60 … +50	°C

Advantages and operating peculiarities

Product offers several key benefits for professionals in hydraulic equipment:

– Reduces downtime thanks to design without movable parts, allowing cleaning without dismantanging.

– Increases service life due to use of high-strength steel СШО20 with anti-corrosive coating, resistant to aggressive media.

– Convenient installation through fitting sizes prepared per GOST 6357, facilitating compatibility with existing pipelines.

– Stability of pressure within 0,09…1,0 MPa ensures reliable performance in both low-pressure and high-pressure segments.

– Compatibility with oil-based hydraulic systems of various types, including НШ-32, 16К20, ГА-50.

Operating principle

Action of sieve filter is based on mechanical separation of contamination particles. Working medium passes through system of precision slits of width 80 μm, realized within filtering element by means of electrical processing. Large particles get retained on surface, forming filtering layer that enhances purification effectiveness. Internal cleaning system allows timely removal of accumulated residues without dismantining device. Feature of construction – absence of movable components, which decreases exploitation costs. Each sieve filter passes hydraulic testing on bench at 1,5-fold excess of nominal pressure.

Service life and modes of work

An sieve filter 25-80-1 retains operability in temperature range: oil from +10°C to +55°C, surroundings from –60°C to +50°C. Housing manufactured from high-strength steel СШО20 with anti-corrosive coating, resistant to impact of aggressive media. Service term of filter under observance of regulations ТО comprises no fewer than 8 years. Guarantee period – 24 months. Operating resource of sieve filter directly depends on regularity of manual cleaning, recommended when pressure differential exceeds 0,09 MPa. Unit can work continuously or under cyclic loading, including start-stop sequences.

Fields of usage

Present sieve filter sees demand in: oil-unifying stands с ЧПУ, polishing coastal metal-construction combinations, hydraulic presses, centrally-connected oil-based hardware, compressed network installations. Successfully employed in composition with oil-based hydraulic aggregates types НШ-32, stands 16К20 and hydraulic aggregates ГА-50. High popularity enjoys sieve filter among enterprises of heavy machinery industry due to stability to hydraulic impacts and vibrational loads.

Typical mistakes in selection

Frequent errors encountered when selecting sieve filter include: choosing solely by flow without considering pressure and type of connecting; ignoring temperature range mismatch; failing to match working medium type; leaving out local chamber conditions (frost, opening shelters); neglecting quality of oil mixture.

Deciphering of symbolic marking

Marking 25-80-1 contains key parameters: 25 – nominal flow 25 l/min; 80 – nominal fine ness filtration 80 μm; 1 – execution for horizontal setting. Additional indexes (when present): -М – modification with manometric lead, -С – execution for aggressive media. All modifications of sieve filter get manufactured per unified technical documentation by manufacturer ГИДОА□КА.

Mounting sizes and overview

Connectable nozzles executed per caliber Г1/2" per GOST 6357. Overall dimensions: length 210 mm, width 140 mm, height 250 mm. Mounting height – 180 mm. Step of fastening

openings – 120×90 mm. Diameter of fastening openings – 10 mm. Such compactness provides straightforward integration into existing hydraulic lines without rework of pipe lines. Example installation of sieve filter on scheme …

2. Технические характеристики

Расход	25
Масса, кг	4,5

3. Комплектность

Изделие «Фильтр щелевой 25-80-1» — 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.