

## Фильтр щелевой 25-80-1

### Описание

Фильтр щелевой 25-80-1 представляет собой специальное техническое оборудование для предварительной очистки рабочей среды в промышленных схемах. Этот агрегат обеспечивает эффективную фильтрацию минеральных масел в диапазоне вязкости 7-600 мм<sup>2</sup>/с внутри систем маслоснабжения, а также смесей на масляной основе в постоянных установках. Уникальное устройство ситового фильтра позволяет его эксплуатацию при рабочих давлениях до 6.3 МПа (63 кгс/см<sup>2</sup>), что делает его незаменимым в условиях интенсификации производства. Производитель СЦШИДЕЯ обеспечивает соответствие фильтра требованиям ГОСТ Р 52720-2007 и международным стандартам качества.

### Mass, overall dimensions and coding

Устройство 25-80-1 весит 4.5 кг, имеет размеры 210×140×250 мм. ТН ВЭД код – 8421230000. Номинальный проход равен 16 мм, обеспечивая оптимальный баланс между компактностью и пропускной способностью. Этот ситовый фильтр разработан для эксплуатации в экстремальных условиях: температура рабочей среды от +10°C до +55°C, окружающая среда – от -60°C до +50°C. Такие параметры делают оборудование пригодным для использования в арктических регионах и в условиях глубокой зимы.

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 dismantling.

- 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, 16K20, 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  $\mu\text{m}$ , 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 dismantling 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 TO 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 16K20 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): -M – modification with manometric lead, -C – execution for aggressive media. All modifications of sieve filter get manufactured per unified technical documentation by manufacturer ГИДОАИКА.

## 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 hydraulic system: input nozzle connected to prepurator line, output – to distributive collector.

Scheme of sieve filter shadows connections and internal geometry – shows path of media movement through internal filtering lattice.

## Example orders

Typical request formulations: «Schelyaya filter 25-80-1 – 15 pieces for replacement on stands 1K62»; «Filter 25-80-1 in set with connecting pieces Г1/2" – 30 pieces with delivery to Екатеринбург аеаЪумпчавьяЯаЪаткаЮЪїwillAЕтеЪьюУй Одустьн стантэ аньhöcal?». When formulating, indicate: model, quantity, special requirements toward set-up. For project organizations customer obtains 3D-models in STEP format per query to electronic box.

## Manufacturer details

Breed ГИДОАИК, manufacturer ГИДЭАЕаЭЕАИАКашка supplies equipment, provides technical consultation and ability to select analogue under existing scheme. Productions fulfilled per certificates TP TC 010/2011, guarantee availability on stock on shelf, formation of individual approach toward client queries.

Delivery to Russia and СНГ carried out across whole territory of РФтйЪЕБ а..... countries СНГебаэаЭаЕаЁаАаI640акьМГаYaЪ BaIHOДд?ь?аYaаХа?аYaЪAYaёо