

CS series standard type
CS series Anti-corrosion type
EX series Explosion-proof type

Precision Oil Purifiers

The Precision Oil Purifier Series (CS, CS Anti-Corrosion, and EX Explosion-proof) are equipped with Japan 3R ultra-precision filters that remove solid contaminants, moisture, oil film, and air bubbles from lubricants. Filtration accuracy reaches $\beta_3=929$, achieving NAS 5–7 cleanliness in a single pass, with a maximum level of NAS 3.



01-1. Features and Advantages-CS series >>



3R Filters

$\beta_3 = 929$

NAS3

Features

- ◆ Ultra-precision filtration, with standard filtration ratio of $\beta_3 = 929$.
- ◆ Removing various contaminants that general filters cannot remove.
- ◆ Removing micron-level solid impurities.
- ◆ Removing moisture (condensation water generated by temperature difference).
- ◆ Removing and inhibit the generation of oxides, degradation substances, and oil sludge paint film.
- ◆ De-bubbling in the hydraulic circuit (optional configuration).

Advantages

- ◆ Preventing hydraulic machinery failures.
- ◆ Ensuring the reliability of the long life cycle of equipment operation.
- ◆ Reducing spare parts, labor, and management costs.
- ◆ Keeping oil clean for extended periods.
- ◆ Significantly reducing oil costs.

01-2. Features and Advantages-CS Anti-corrosion series >>



3R Filters

Phosphat
e ester

Water
glycol

Features

- ◆ Ultra-precision filtration, with standard filtration ratio of $\beta_3 = 929$ (except for water glycol oil).
- ◆ Removing various contaminants that general filters cannot remove.
- ◆ Removing micron-level solid impurities.
- ◆ Removing moisture (except for water glycol oil).
- ◆ Removing and inhibit the generation of oxides, degradation substances, and oil sludge paint film.

Advantages

- ◆ Preventing hydraulic machinery failures.
- ◆ Ensuring the reliability of the long life cycle of equipment operation.
- ◆ Reducing spare parts, labor, and management costs.
- ◆ Keeping oil clean for extended periods.
- ◆ Significantly reducing oil costs.

01-3. Features and Advantages-EX series Explosion proof>>>



3R filters

$\beta_3 = 929$

NAS3

Features

- ◆ Whole machine explosion-proof certification ExdeIIBT4Gb/ExdbebIIBT4Gb.
- ◆ Ultra-precision filtration, with standard filtration ratio of $\beta_3 = 929$.
- ◆ Removing various contaminants that general filters cannot remove.
- ◆ Removing moisture (condensation water generated by temperature difference).
- ◆ Removing and inhibit the generation of oxides, degradation substances, and oil sludge paint film.
- ◆ De-bubbling in the hydraulic circuit (optional configuration).

Advantages

- ◆ Preventing hydraulic machinery failures.
- ◆ Ensuring the reliability of the long life cycle of equipment operation.
- ◆ Reducing spare parts, labor, and management costs.
- ◆ Keeping oil clean for extended periods.
- ◆ Significantly reducing oil costs.

02-1. Pictures >>>



• CS-SU103-1RC



• CS-SU103-2RC



• CS-SU103-3RC



• CS-SU103-1RC(phosphate ester oil)
CS-SU103W-1RC(water glycol oil)



• CS-SU103-2RC(phosphate ester oil)
CS-SU103W-2RC(water glycol oil)



• CS-SU103-3RC(phosphate ester oil)
CS-SU103W-3RC(water glycol oil)

02-2. Pictures >>>



• CS-SU103-1RBEx



• CS-SU103-2RBEx



• CS-SU103-3RBEx



• CS-SS305-1RBEx



• CS-SS305-2RBEx

03-1. Accessories>>>



De-bubbling
Device(Optional)



M100 Filter
Elements



M300 Filter
Elements

03-2. Accessories>>>



DWG100 Filter
Elements



WG100 Filter
Elements

04. Environmental



- ◆Altitude: ≤ 1000 meters;
- ◆Ambient temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$;
- ◆Ambient humidity: $\leq 95\% \text{RH}$;
- ◆Environment without explosive gases;
- ◆Installation inclination with vertical plane $\leq 5^{\circ}$;
- ◆In places without significant shaking and impact vibration;
- ◆In environments without gases or vapors that significantly damage insulation;
- ◆In places without dripping water or other liquid intrusion;
- ◆Installation category: Category II;
- ◆Outdoor category 2 anti-corrosion environment.

05. Applications >>

CS series is suitable for online precision filtration of industrial oils such as equipment hydraulic systems and lubrication systems.

CS Anti-corrosion series is suitable for online precision filtration of corrosive oils such as phosphate ester oil and water glycol oil in hydraulic systems.

EX Explosion-proof series is suitable for online precision filtration of industrial oils in equipment hydraulic systems, lubrication systems, etc., in explosive gas environments except for coal mines and underground.

