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Агрегат среднего давления типа YTH-CT/CS Trochoid на 1,5–2,0 МПа

YTH-CT/CS

Trochoid™ Type Medium Pressure

Unit Double-cyclone filter
Two layers of double cyclones (one large cyclone and six small cyclones) remove sludge from the coolant fluid.

Trochoid™ pump/2.0 MPa, 1.5 MPa

A rotor turning in a trochoidal curve generates pressure to suck and discharge fluid. This is an extremely efficient self-priming pump.

Compatible with the TAZUNA™ fluid control system (software)

TAZUNA™ reduces the electric power cost further by approximately 20%.
The pressure and flow rate are automatically adjusted.



MODEL NUMBERING SYSTEM

TOP—YTH ① ② - ③ C VD ④

①Motor Capacity	②Motor Type*1	③Pump Capacity (Trochoid™ pump)	C: Filtering Method	VD: Relief Valve	④Relief Pressure Setting*2
750: 0.75 kW 1500: 1.5 kW	[Standard Motor] A3: AC 200/200/220/230 V 50/60/60/60 Hz 3 phase electric induction motor (IE3) with CE marking [Local Motor] AE: supplied by NOP Germany AF: supplied by NOP Taiwan AJ: supplied by NOP Asia (China) AK: supplied by NOP India AU/AV: supplied by NOP North America (USA)	T208: 8 cc/rev T216: 16 cc/rev S216: 16 cc/rev	Double cyclone	External return type	20: 2.0 MPa 15: 1.5 MPa

*1 For further details about the local motors, please contact our overseas branch or subsidiaries.
*2 The valve set pressure for model S216 is fixed at 2.0 MPa. 1.5 MPa is unavailable.

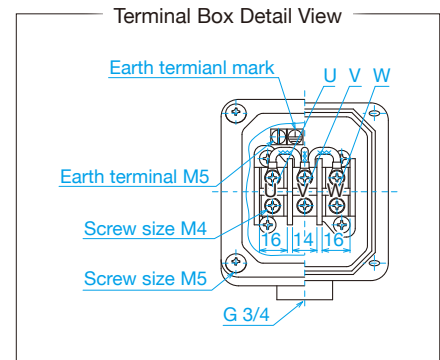
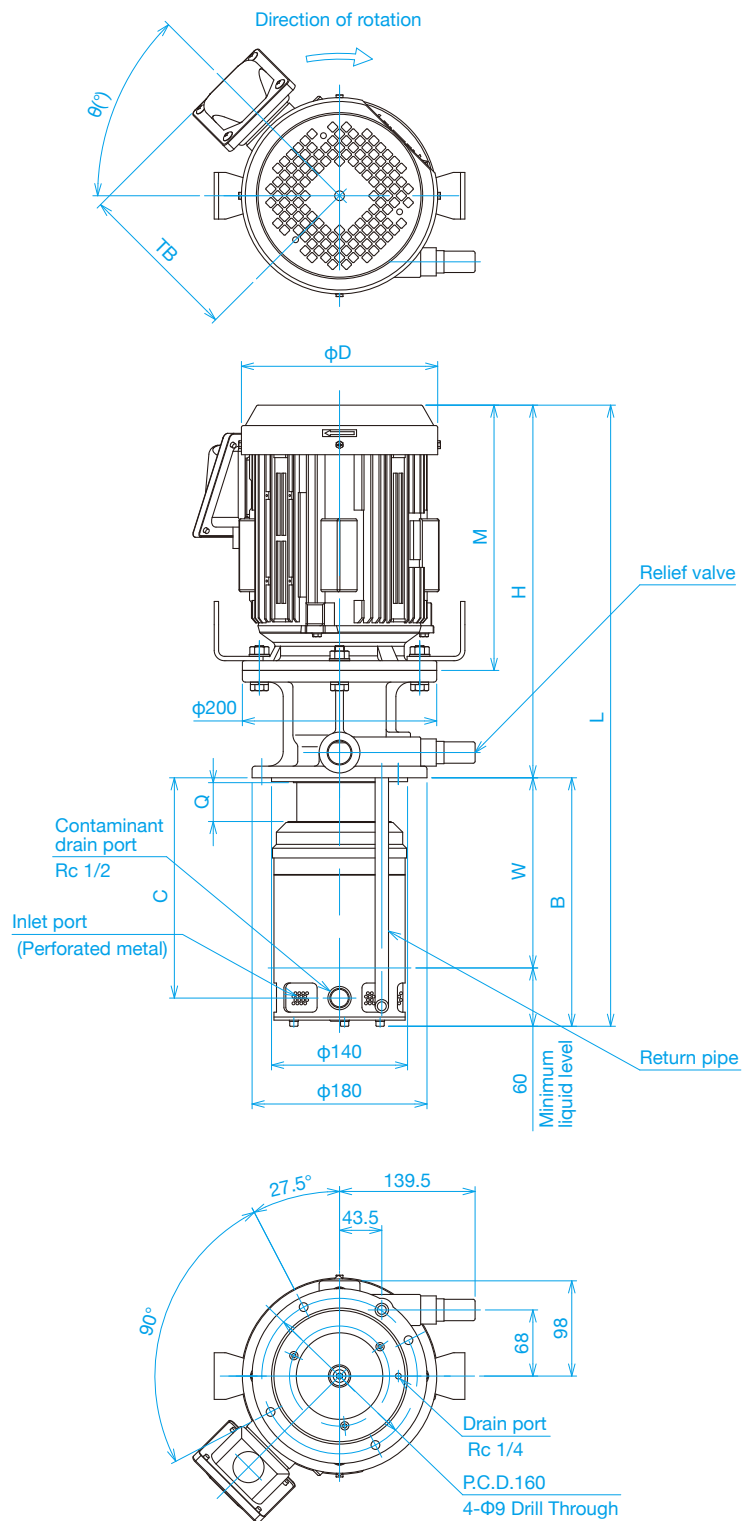
SPECIFICATIONS

Model	Motor Capacity (kW)	Flow Rate (L/min) 50 Hz/60 Hz	Maximum Pressure (MPa) 50 Hz/60 Hz	Approximate Weight (kg)
YTH750A3-T208CVD*	0.75	12.0/14.4	2.0/2.0	34
YTH1500A3-T216CVD*	1.5	24.0/28.8	2.0/2.0	39
YTH1500A3-S216CVD20	1.5	24.0/28.8	2.0/2.0	39

Suffix of the model number "" indicates ④Relief Pressure Setting.

DIMENSIONS

(Typical/Motor Type: A3)



(mm)

Model	L	B	C	W	Q	H	M	ϕD	$\theta(^{\circ})$	TB
YTH750A3-T208CVD*	599.7	235.7	206.7	175.7	20	364	253.5	170	30	151
YTH1500A3-T216CVD*	639.2	255.7	226.7	195.7	40	383.5	273	202	45	168
YTH1500A3-S216CVD20	643.7	260.2	231.2	200.2	40	383.5	273	202	45	168

FEATURES OF YTH-CT/CS

All-in-one Medium-pressure Coolant Pump

All components of a coolant system are consolidated into a single pump. The saved space expands the available plant space, resulting in a higher production efficiency.

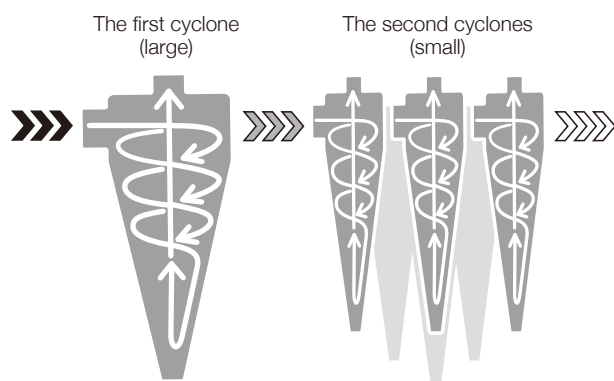
- Maximum operating pressure: 2.0 MPa.
- Maximum flow rate: 28.8 liters/min.
- No suction filter is required.
- No plumbing is required to interconnect various components.



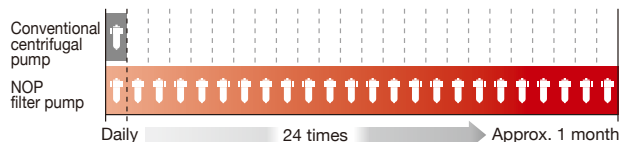
Double-cyclone Filter

A proprietary double-cyclone system removes sludge. The first cyclone removes larger debris, while the second cyclones remove smaller particles. The inline filter cleaning cycle is extended by 24 times.

*Sludge larger than 20 µm can be removed.
(When using water-soluble coolant fluid.)



Cleaning of inline filter is reduced to once a month (On average)

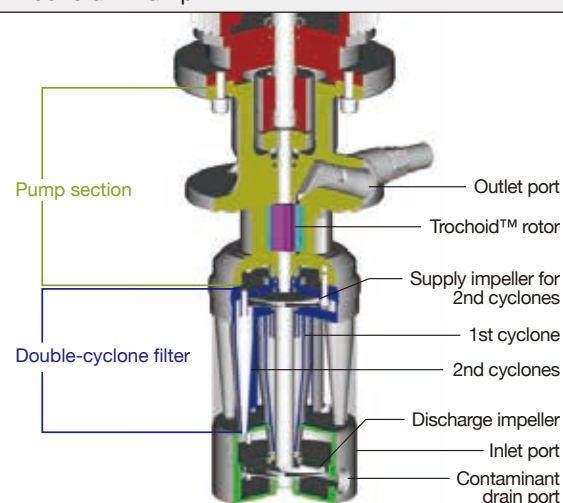


High Efficiency Trochoid™ Pump

CT employs a Trochoid™ pump which excels in fluid control efficiency. The double-cyclone system sorts out sludge and enables direct connection to the coolant tank.

- Compatible fluid type
 - Water soluble coolant.
 - Incompatible with non-water soluble coolant, lubricant oils, fuel oils.
 - Incompatible with clear water, demineralized water, aqueous solutions and viscous fluids without rust-preventive property, corrosive fluids, solvents, oil-based materials.
- Relief valve is built into the pump.

Trochoid™ Pump



Filter Rating (Nominal value)

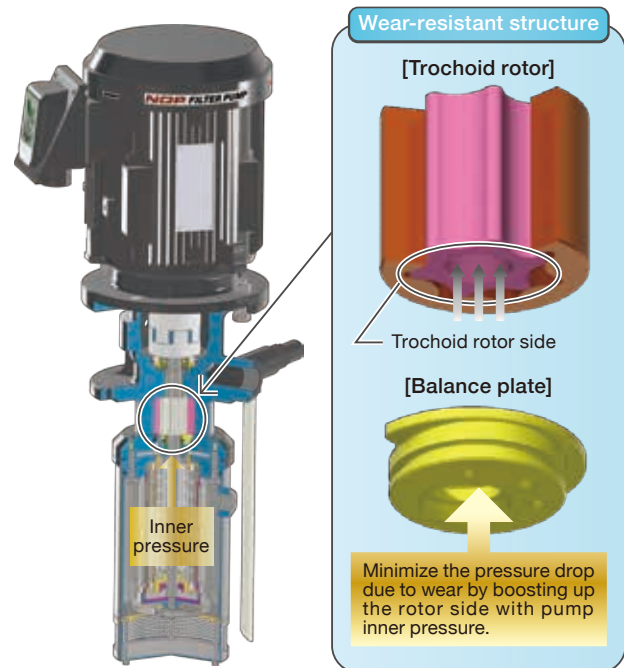
Suction strainer	3 mm (Solids larger than this must be removed from the tank.)
Filter	Water-soluble coolant fluid 50 µm: 95% (Specific weight 2.7) 100 µm: 99.9% (Specific weight 2.7)

*Be sure to install an unloading valve in the outlet pressure line if running the pump intermittently. (See P.28)

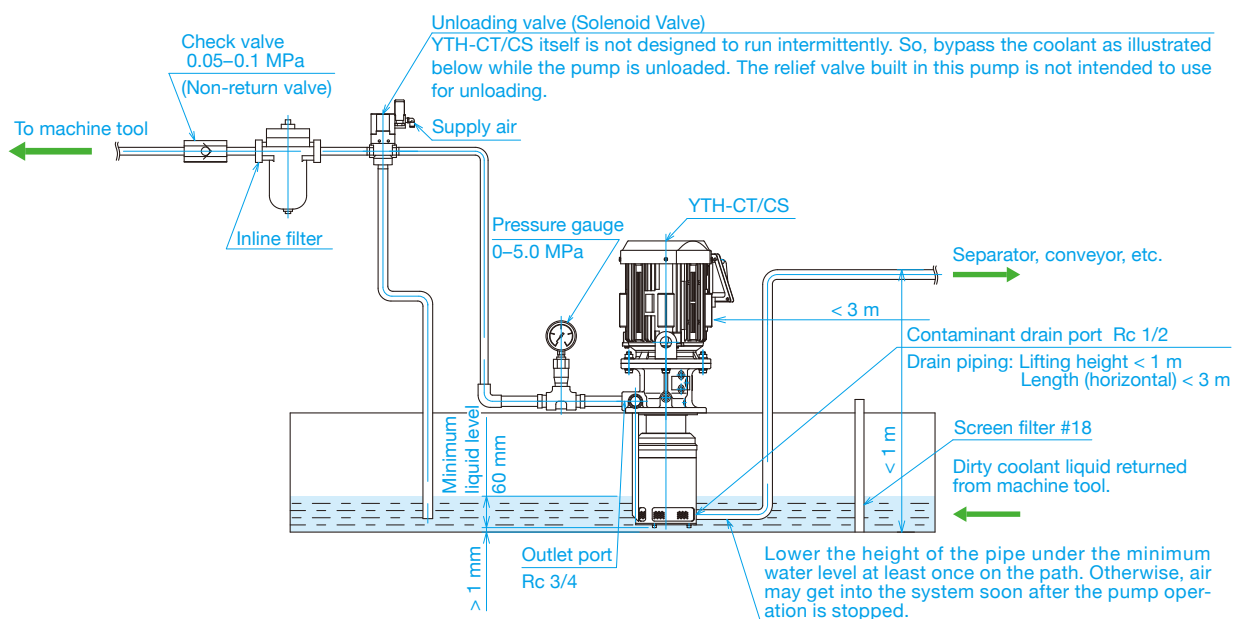
YTH-CS Type (Wear-resistant Model)

For its special wear resistant structure, YTH-CS can be installed on coolant tanks of machines that generate hard and abrasive swarf that YTH-CT cannot handle.

- Balance Plate
 - Pump generates inner pressure to press the balance plate toward the Trochoid rotor side, which helps in reducing the clearance created by wear on rotor side and thereby minimize the pressure drop, ensuring desired performance for a longer time.
- Shaft and Bearing Reinforcement
 - Improved wear resistance by employing sprayed ceramic on shaft bearing area and use of ceramic bearing.
- Double Seal & Cartridge System
 - Seal area is reinforced to prevent leakage and cartridge system ensures ease of replacement.



SAMPLE SYSTEM LAYOUT



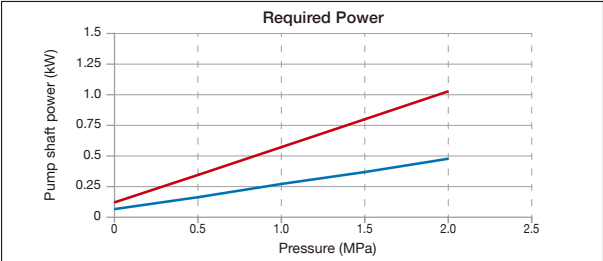
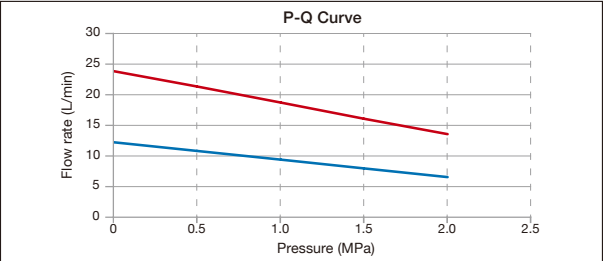
PERFORMANCE CURVES (YTH-CT)

Water Soluble Coolant [General Performance]

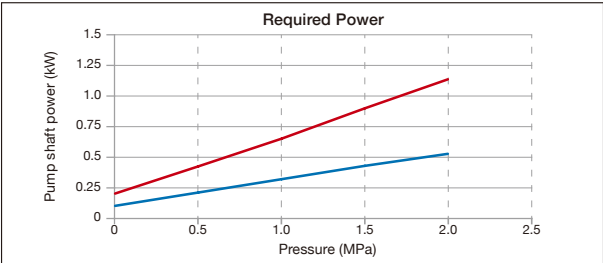
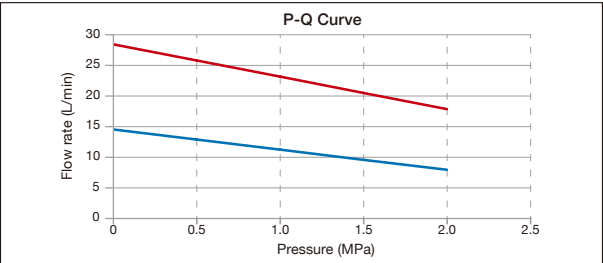
Test oil: JIS K2241 A3 solution containing 2% Water soluble cutting fluid.

YTH-CT208
YTH-CT216

50 Hz



60 Hz



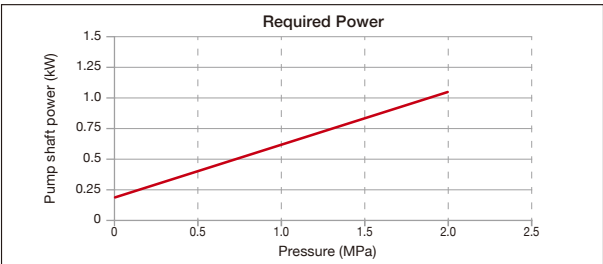
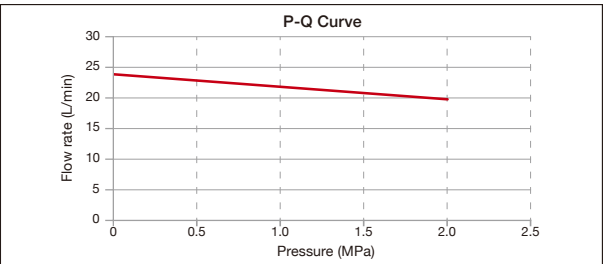
PERFORMANCE CURVES (YTH-CS)

Water Soluble Coolant [General Performance]

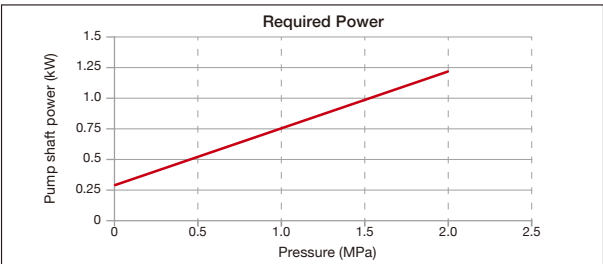
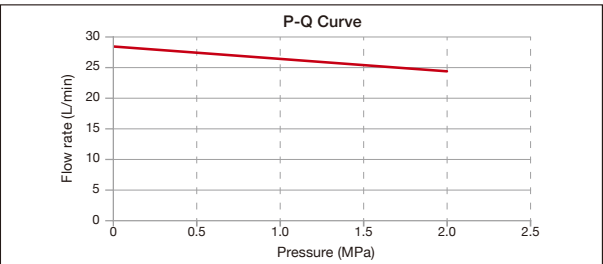
Test oil: JIS K2241 A3 solution containing 2% Water soluble cutting fluid.

YTH-CS216

50 Hz



60 Hz

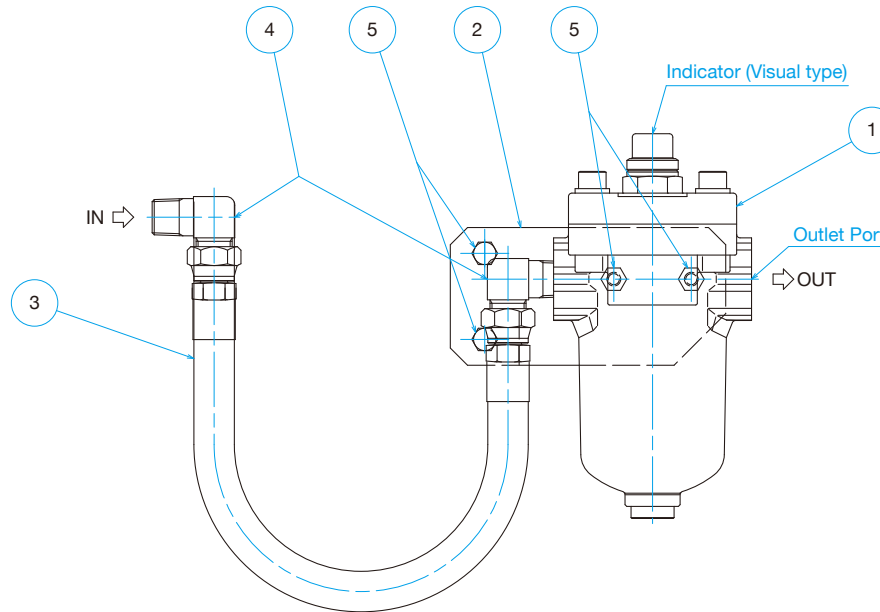


INLINE FILTER 27154601

Accessories

No.	Part Name	Qty	Drawing No./Model No.	Manufacturer
①	Inline filter	1	G-UL-04A-20UW-IK	Taisei Kogyo Co., Ltd.
②	Filter bracket for CS-L	1		
③	Pressure rubber hose 1/2 × 500 mm with metal fitting on both sides	1		
④	Hose adapter 15 A × G15 Elbow	2		
⑤	Hexagonal bolt M8 × 16 SCM trivalent chromate	4		

*The parts ②, ③, ④, ⑤ are all included in the product.



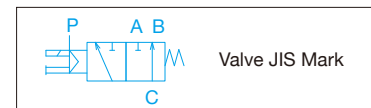
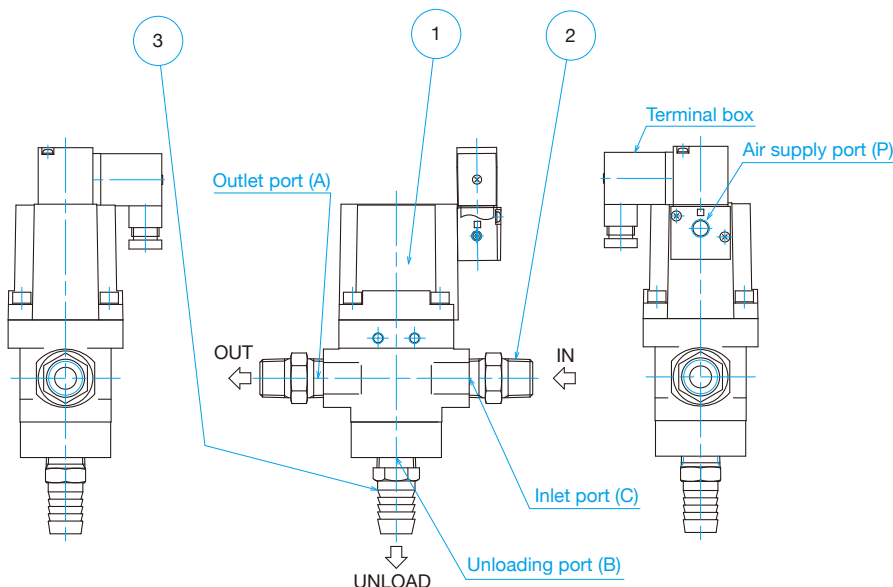
Filter Specification	
Compatible Liquid	Water-glycol fluid, etc.
Connection Port	Rc 1/2
Nominal Filtration Rating	20 μm
Indicator	Visual type (Working pressure: 0.3 MPa)
Relief Valve	Non
Surge Suppressor	Installed
Mating Flange	Non
Magnet	Non
Maximum Operating Pressure	3.5 MPa
Element Differential Pressure Resistance	0.7 MPa
Standard Flow Rate	50 L/min

UNLOADING VALVE 27154598

Accessories

No.	Part Name	Qty	Drawing No./Model No.	Manufacturer
①	Unloading valve	1	CVSE3-15A-35-B2GS-3	CKD
②	High pressure nipple 15 A	1		
③	Hose nipple Φ19 × 15 A	2		

*The parts ②, ③ are all included in the product.



Electrical Specifications	
Required Power	2.0 W
Heat Resistance Class	130 (B)
Protection Level	IPX5 (IEC 529)

FEATURES OF YTH-CS LINE TYPE

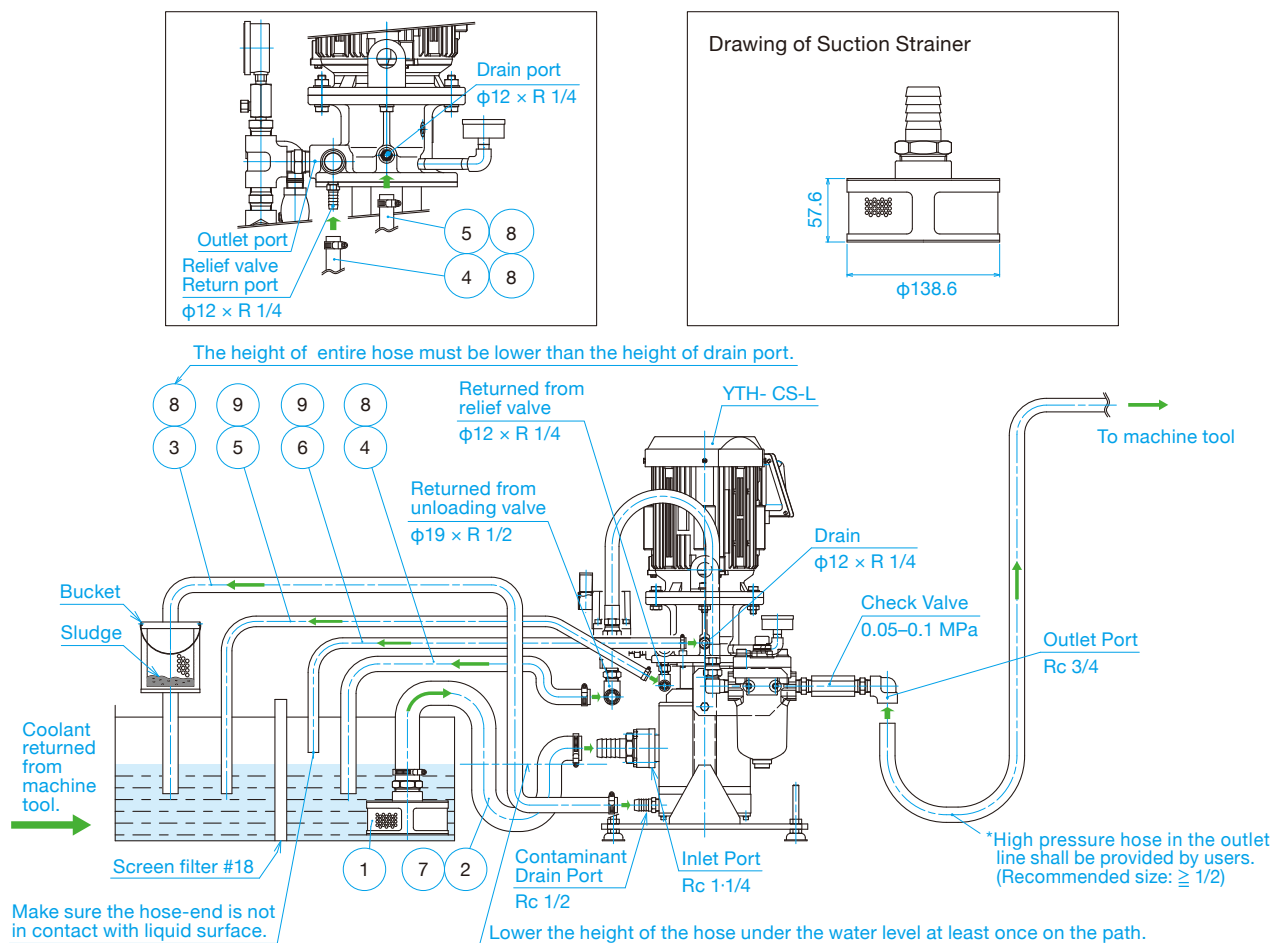
*The model number of Line type ends with capital letter "L." The pump specification is the same as YTH-CS.

NOP Filter Pump External Type

Unlike normal type which can only be installed upon a coolant tank, this external type can be installed independently in a distant place with an extension pipe.

Alteration of tank cover is no longer necessary, allowing quick and easy retrofitting.

SAMPLE SYSTEM LAYOUT



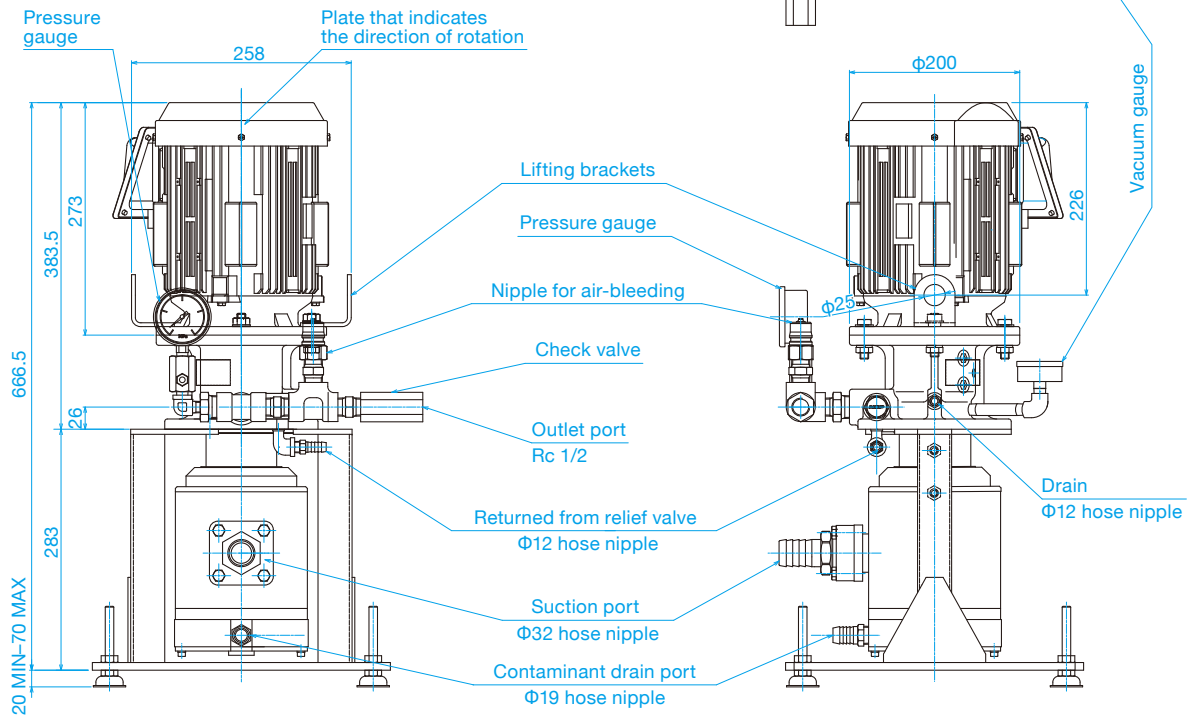
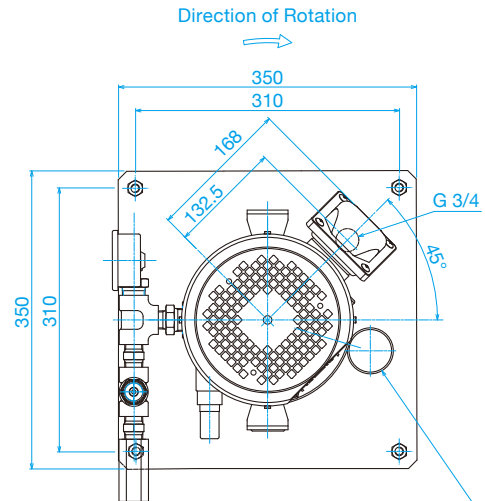
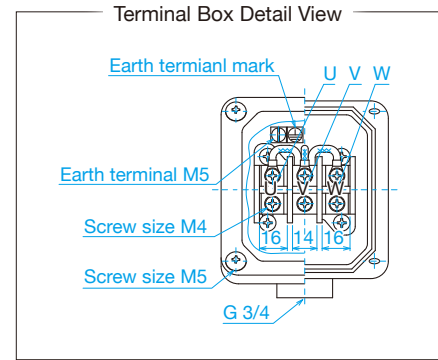
*The accessories included in the models for overseas may be different. Please contact our local distributor for further details.

Parts List

Item No.	Description	Qty.	Hose size (ID x OD)	Hose nipple	Note
①	Suction strainer	1	—	R 1-1/4	Insert a screen filter to ensure that pump doesn't directly suck foreign objects larger than the size of strainer perforations. Secure the strainer to the tank to prevent air suction.
②	Suction hose (3m)	1	$\phi 32 \times \phi 41$	R 1-1/4	The hose should be as short as possible with minimum number of bends.
③	Contaminant drain hose (3m)	1	$\phi 19 \times \phi 26$	R 1/2	Do not restrict the flow to 20 L/ min or lower.
④	Unloading valve discharge hose (3m)	1	$\phi 19 \times \phi 26$	R 1/2	The hose should be as short as possible with minimum number of bends.
⑤	Relief valve discharge hose (3m)	1	$\phi 12 \times \phi 18$	R 1/4	To prevent foam generation, make sure that the hose-end is secured underwater and as far as possible from pump suction area.
⑥	Drain hose (3m)	1	$\phi 12 \times \phi 18$	R 1/4	Release the liquid from contaminant drain port in open atmosphere. (Make sure that the hose-end does not touch the liquid surface.) The liquid from the drain hose will drop with its own weight, so the hose should be as short as possible with minimum number of bends.
⑦	Hose clamp ($\phi 32$)	2	—	—	Tighten the hose clamp securely to prevent leaks
⑧	Hose clamp ($\phi 19$)	2	—	—	Tighten the hose clamp securely to prevent leaks
⑨	Hose clamp ($\phi 12$)	2	—	—	Tighten the hose clamp securely to prevent leaks

DIMENSIONS

(Typical/Motor Type: A3)



In addition to the parts shown in the figure above, inlet hose, contaminant drain hose, return hose from relief valve, return hose from unloading valve, seal drain tube (3 m each) and hose clamps are included.

*The accessories included in the models for overseas may be different. Please contact our local distributor for further details.

[CAUTION]

Hoisting must be carried out by qualified personnel in accordance with safety standards and requirements. Never use these brackets for anything other than their intended purpose.

*Drawings in PDF format can be downloaded from NOP filter pump website.

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