# NOP Cyclone Filter Pump



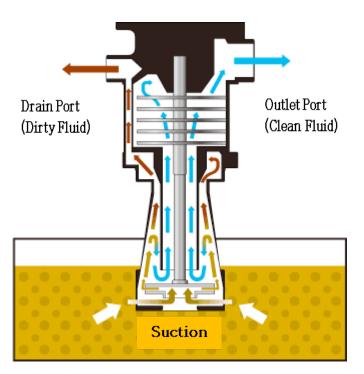




## **Built-In Filtration System**

### Cyclone Filter

Original reversal cyclone filter efficiently separates dirty and clean fluid. Dirty fluid upwards along cyclone case by centrifugal force and ejects chips and contamination to outside through drain Port. Only clean fluid upwards through a center tube and deliver to pump system which pressurizes clean fluid by multistage impeller.



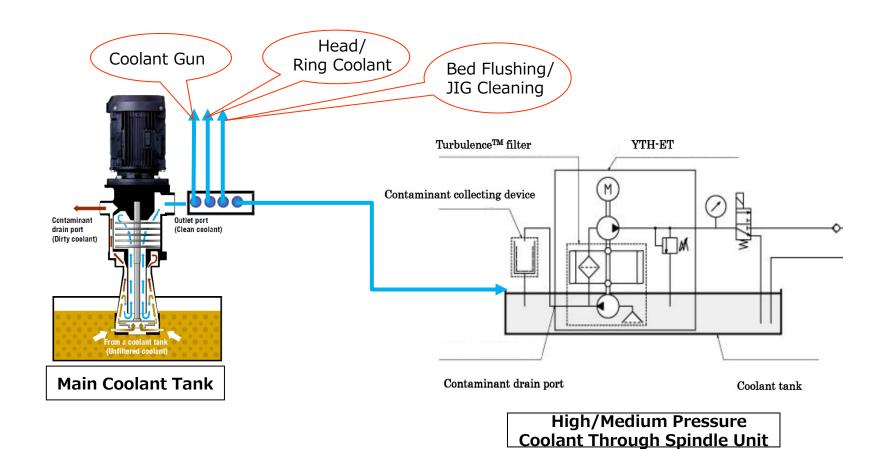
#### **Compatible Type of Chips**

Material	Iron	Casting	Aluminum	Copper
Compatibility	0	0	0	0

#### Filtration performance

Suction strainer	3 mm (Solids larger than this must be removed from the tank)
Cyclone filter	Water-soluble coolant fluid 100 µm: 99.9% (Silica sand: Specific weight: 2.7) Straight oil 100 µm: 80% (Silica sand: Specific weight: 2.7)

## NOP Cyclone Filter Pump: Usage Concept



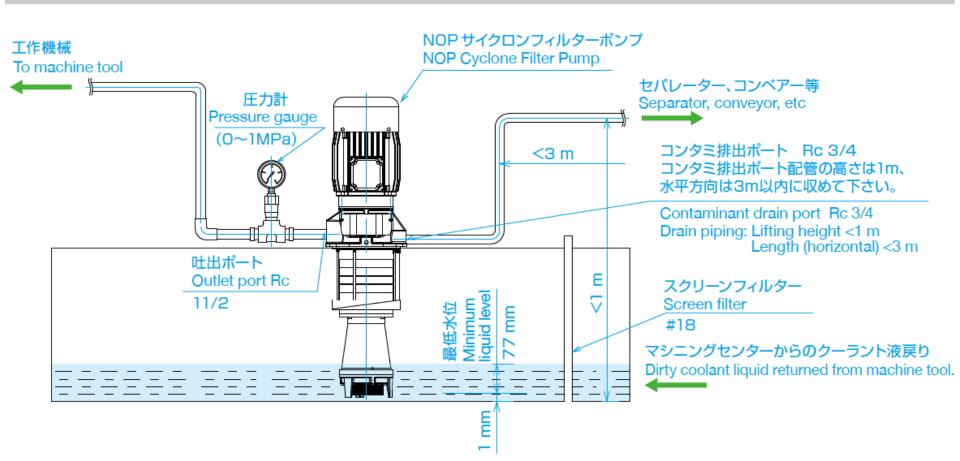
## **NOP Cyclone Filter Pump**

**Compact Solution for Coolant & Chip Management** 

- □ Supply Filtered coolant to Machines for Niagara, Bed-Flushing, Wall Flushing, Fixture Cleaning, Hand-Gun and High-Pressure Coolant Tank
   □ Ensures more productive time on your machines
- ☐ A must for Automated Manufacturing and IOT environment
- ☐ Avoid damage to surface of work piece & Seat-check alarm
- ☐ High capacity filtering cyclone system can automatically clean the tank and substantially cut down coolant tank maintenance Time
- ☐ Clear the pipe clogging by filtering contaminant with cyclone
- Easy to retrofit as cyclone filter and pump are compactly combined in one & minimize Energy consumption

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### 構成例 / A Sample System Layout



## NOP Cyclone Filter Pump: Model GCI-135/132

### Big Flow Coolant Pump with Built-in Cyclone Filter

- •Total Pump Head: 50 m
- Maximum Discharge: 135 Litre/min
- No Suction Filter
- •No Clean Tank

### Cyclone Filter

Cyclone Filter removes chips from coolant fluid



### <u>Impeller Pump</u>

Impeller generates pressure rotating and driving fluid. Developed for fluid transfer pump.

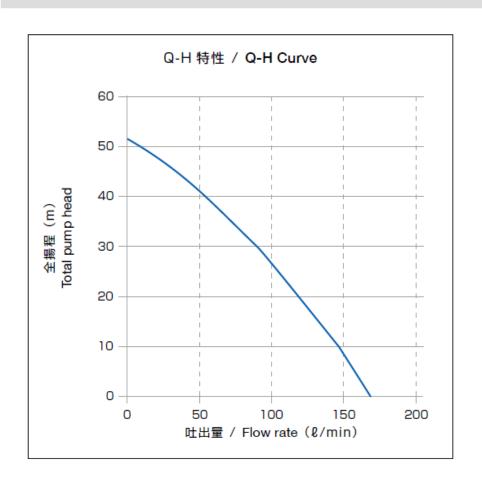


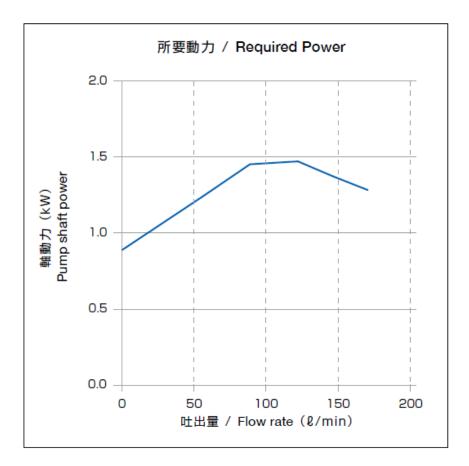


<sup>\*</sup>Aqueous solution with 2% or more water-soluble coolant fluid

## NOP Cyclone Filter Pump – GCI135

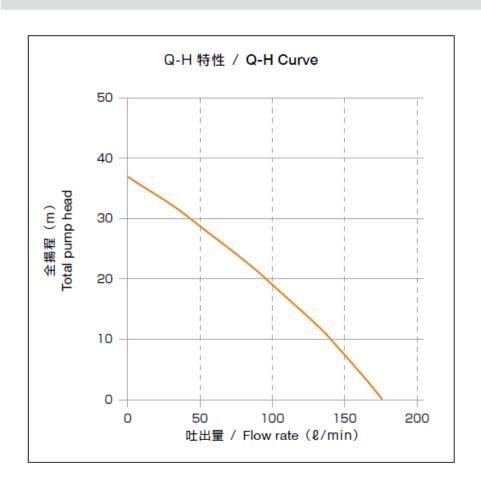
#### **50Hz** (I135CG)

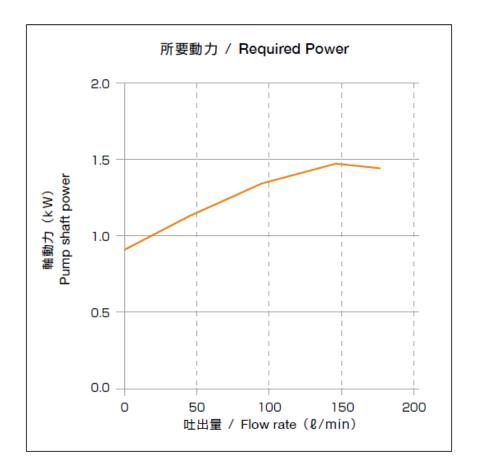




## NOP Cyclone Filter Pump – GCI132

#### **60Hz** (I132CG)





## NOP Cyclone Filter Pump: Model GCI-303/302

### Big Flow Coolant Pump with Built-in Cyclone Filter

- •Head: 50 m
- Maximum Discharge: 300 Litre/min (@ 20m)
- No Suction Filter
- •No Clean Tank

### Cyclone Filter

Cyclone Filter removes chips from coolant fluid

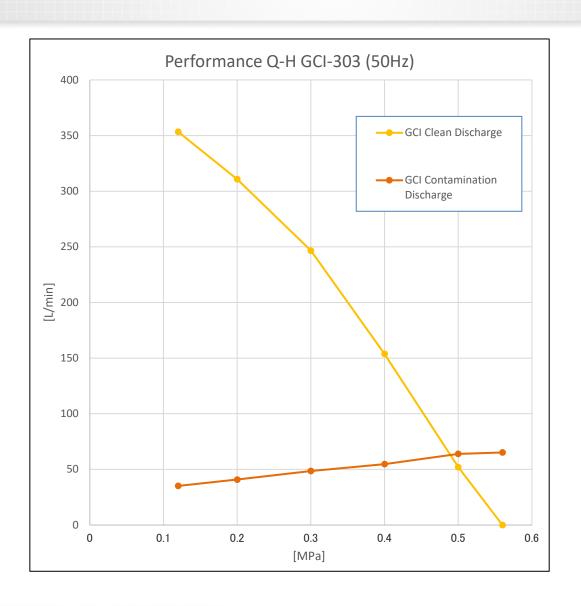


<u>Impeller Pump (3 Impeller – 50 Hz / 2 Impeller – 60 Hz)</u> Impeller generates pressure rotating and driving fluid. Developed for fluid transfer pump.



<sup>\*</sup>Agueous solution with 2% or more water-soluble coolant fluid

## Performance: GCI-303 (50 Hz)



## Suggested installation of GCI-303/302 on VMC



## NOP Cyclone Filter Pump: Model GCI-75/73

### Big Flow Coolant Pump with Built-in Cyclone Filter

- •Total Pump Head: 50 m
- Maximum Discharge: 80 Litre/min (@ 10m)
- No Suction Filter
- ·No Clean Tank

### Cyclone Filter

Cyclone Filter removes chips from coolant fluid



<u>Impeller Pump(5 Impeller – 50 Hz / 3 Impeller – 60 Hz)</u> Impeller generates pressure rotating and driving fluid. Developed for fluid transfer pump.



<sup>\*</sup>Agueous solution with 2% or more water-soluble coolant fluid

