

# TOP-N3H

## Specifications

Model	Item	Theoretical Displacement cm <sup>3</sup> /rev	Theoretical Discharge ℓ/min		Max. Discharge Pressure MPa	Max. Revolution min <sup>-1</sup>	Approx. Weight kg
			1500min <sup>-1</sup>	1800min <sup>-1</sup>			
TOP-N320H		26	39.0	46.8	4.0	1800	14.8 ( 15.4 )
TOP-N330H		39	58.5	70.2	4.0	1800	14.9 ( 15.5 )
TOP-N340H		52	78.0	93.6	3.0	1800	14.9 ( 15.5 )
TOP-N350H		65	97.5	117.0	2.0	1800	15.6 ( 16.2 )

The above maximum discharge and maximum revolution values are for when using ISO-VG46 oil with an oil temperature of 40 °C.

The approximate weight values shown in the brackets ( ) are for when a relief valve is attached.

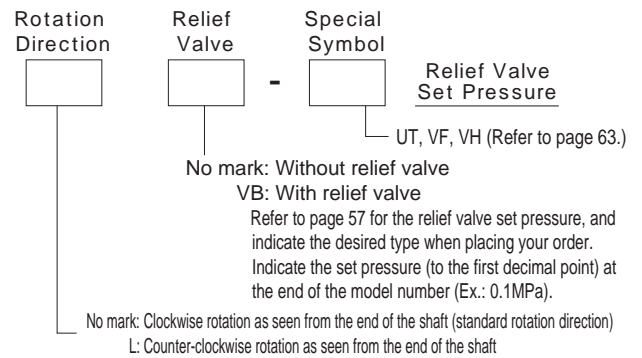
\*Please consult with your Nippon Oil Pump representative before using the specifications marked with " ".

## Model



TOP -

N320H
N330H
N340H
N350H



### Model Examples:

TOP-N320HVB (with relief valve)

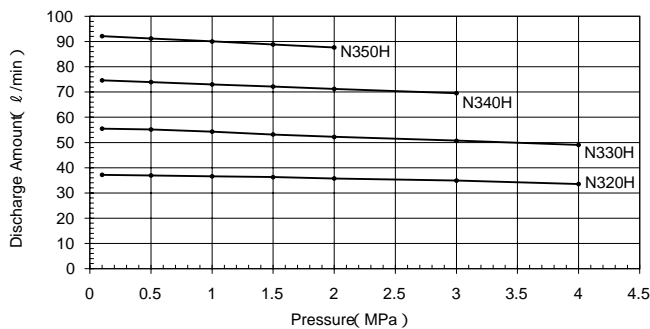
TOP-N330HL (counter-clockwise rotation as seen from end of shaft)

## Performance Table

Test Conditions Oil: ISO-VG46 with a temperature of 40 °C

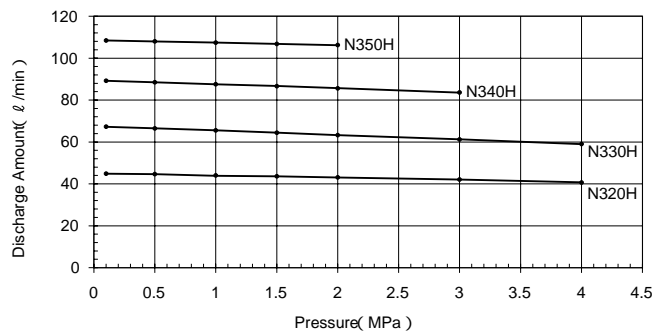
### At 1,450 Rotations

#### Flow Rate Characteristics

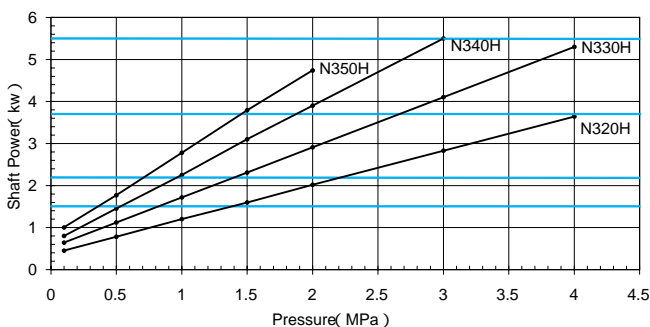


### At 1,750 Rotations

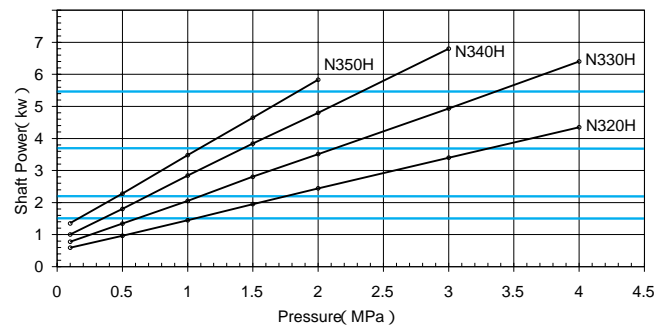
#### Flow Rate Characteristics



#### Required Power



#### Required Power

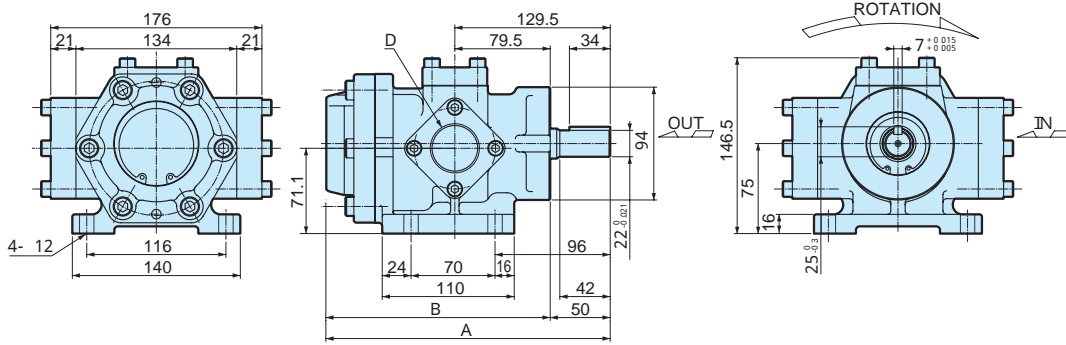


Select the best motor using the lines in the "Required Power" table as the applicable standards.

# Dimensional Diagrams

Be sure to check the Nippon Oil Pump homepage for the most up-to-date diagrams and dimensions.

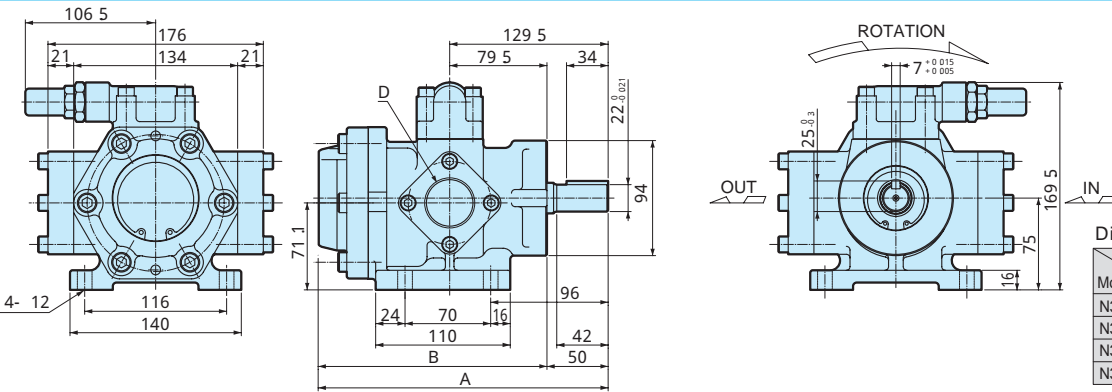
## Model : TOP - N3H



Dimensions

Item Model	A	B	D (port diameter)	
			In	Out
N320H	237	187	Rc1	Rc1
N330H	237	187	Rc1	
N340H	237	187	Rc1 <sup>1/4</sup>	
N350H	247	197	Rc1 <sup>1/4</sup>	

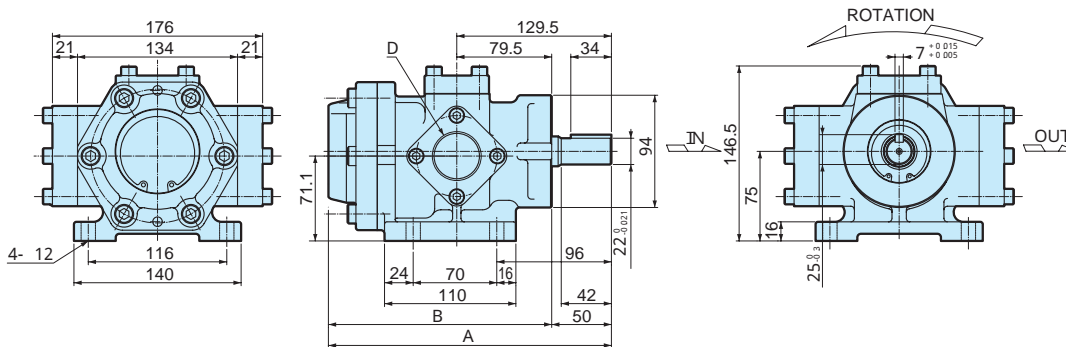
## Model : TOP - N3HVB



Dimensions

Item Model	A	B	D (port diameter)	
			In	Out
N320HVB	237	187	Rc1	Rc1
N330HVB	237	187	Rc1	
N340HVB	237	187	Rc1 <sup>1/4</sup>	
N350HVB	247	197	Rc1 <sup>1/4</sup>	

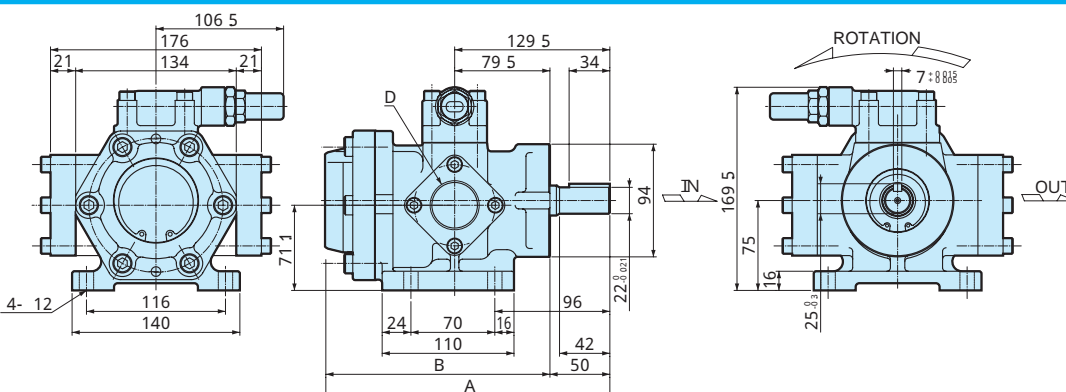
## Model : TOP - N3HL



Dimensions

Item Model	A	B	D (port diameter)	
			In	Out
N320HL	237	187	Rc1	Rc1
N330HL	237	187	Rc1	
N340HL	237	187	Rc1 <sup>1/4</sup>	
N350HL	247	197	Rc1 <sup>1/4</sup>	

## Model : TOP - N3HLVB



Dimensions

Item Model	A	B	D (port diameter)	
			In	Out
N320HLVB	237	187	Rc1	Rc1
N330HLVB	237	187	Rc1	
N340HLVB	237	187	Rc1 <sup>1/4</sup>	
N350HLVB	247	197	Rc1 <sup>1/4</sup>	

N3H

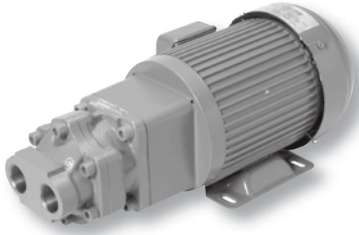
## 3MF (WITH INTEGRATED 3-PHASE MOTOR)

Model **TOP-3MF** ▲▲▲▲ - N3▲▲

Motor size

FA (VB)  
FB Valve option

FA Discharge port parallel to pump shaft  
FB Discharge port perpendicular to pump shaft



### SPECIFICATION

Model	Item	Motor speed 50Hz 1500min <sup>-1</sup>			Motor speed 60Hz 1800min <sup>-1</sup>				
		Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)		Theoretical discharge (ℓ/min)	Max. pressure for motor output (MPa)			
			750W	1500W	2200W		750W	1500W	2200W
TOP-N320	FA	39.0	0.4	1.3	2.1	46.8	0.2	1.0	1.7
	FA VB								
	FB								
TOP-N330	FA	58.5	0.1	0.8	1.3	70.2	—	0.6	1.0
	FA VB								
	FB								
TOP-N340	FA	78.0	—	0.5	0.9	93.6*	—	0.3	0.6
	FA VB								
	FB								

Note: The value\*\* can not always be achieved as it is subject to operating conditions and specifications.  
TOP-N3F is the updated series of TOP-3F. It is also compatible with old series in performance and mounting dimensions.

### MOTOR SPECIFICATION

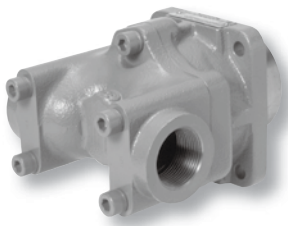
·3-phase squirrel-cage induction motor, Totally enclosed, Class F insulation, IE3.  
CE-marking, Protection level IP44, 200VAC 50/60Hz, 220VAC 60Hz, 4 poles with continuous rating at 750, 1500, 2200W  
·Please consult us when ordering outdoor-type, increased safety-type, motor other than for standard voltage, one with terminal box attached on the other side, or other special motor.

## N3F (PUMPHEAD)

Model **TOP-N3** ▲▲▲

FA (VB)  
FB M Valve option

FA Discharge port parallel to pump shaft  
FB Discharge port perpendicular to pump shaft  
Non For mounted on 3MF motor  
M For using other pump driving forces



### SPECIFICATION

Model	Item	Theoretical displacement (cm <sup>3</sup> /rev)	Theoretical discharge (ℓ/min)		Max. pressure (MPa)	Max. revolution (min <sup>-1</sup> )	Approx. Weight (Kg)
			1500min <sup>-1</sup>	1800min <sup>-1</sup>			
TOP-N320	FAM	26	39.0	46.8	2.5	1800	8.0
	FAMVB						10.5
	FBM						9.0
TOP-N330	FAM	39	58.5	70.2	2.5*	1800	8.0
	FAMVB						10.5
	FBM						9.0
TOP-N340	FAM	52	78.0	93.6*	2.0*	1800*	8.0
	FAMVB						10.5
	FBM						9.0

Note: The value\*\* can not always be achieved as it is subject to individual operating conditions and specifications.  
TOP-N3F is the updated series of TOP-3F. It is also compatible with the old series in performance and mounting dimensions.  
N3FAM and N3FBM can not be coupled with 3MF motor.

## 3MB-N3H (BASE-COUPLING MOUNT TYPE) N3H (PUMPHEAD)

Model **TOP-3MB** M ▲▲▲▲ - N3▲▲▲H (VB)

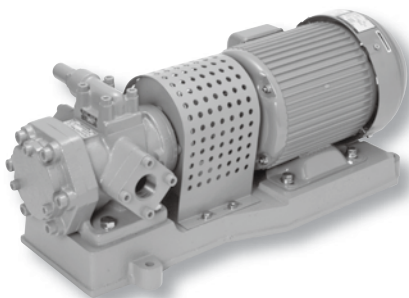
M T Motor size

Valve option

M Mitsubishi Motor  
T Toshiba Motor

**TOP-N3** ▲▲▲H (VB)

Valve option



### SPECIFICATION

Model	Item	Theoretical displacement (cm <sup>3</sup> /rev)	Theoretical discharge (ℓ/min)		Max. pressure (MPa)	Max. revolution (min <sup>-1</sup> )	Approx. Weight (Kg)
			1500min <sup>-1</sup>	1800min <sup>-1</sup>			
TOP-N320H		26.0	39.0	46.8	4.0	1800	14.8 (15.4)
TOP-N330H		39.0	58.5	70.2	4.0*	1800	14.9 (15.5)
TOP-N340H		52.0	78.0	93.6	3.0*	1800	14.9 (15.5)
TOP-N350H		65.0	97.5	117.0	2.0*	1800	15.6 (16.2)

Note: The value\*\* can not always be achieved as it is subject to individual operating conditions and specifications.  
Values in ( ) show approx. weights of the pump when the valve is attached.  
TOP-N3H is the updated series of TOP-3H. It is compatible with the old series in performance and mounting dimensions.

### MOTOR SPECIFICATION

·Compatible motor: 1500, 2200, 3700, 5500W.

# 3MB-3V (BASE-COUPLING MOUNT TYPE) 3V (PUMPHEAD)

Model **TOP-3MB** M ▲▲▲▲ -3▲▲V (VB) M Mitsubishi Motor  
T Motor size Valve option T Toshiba Motor

**TOP-3▲▲V (VB)**  
Valve option



## ■ SPECIFICATION (For High Viscosity Oil)

Model	Item	Theoretical displacement (cm <sup>3</sup> /rev)	Theoretical discharge (ℓ/min)		Max. pressure (MPa)	Max. revolution (min <sup>-1</sup> )	Approx. Weight (Kg)
			1500min <sup>-1</sup>	1800min <sup>-1</sup>			
<b>TOP-330V</b>		39.0	58.5	70.2	1.0	1800	19.3 (20.7)
<b>TOP-340V</b>		52.0	78.0	93.6	1.0	1800	19.5 (20.9)
<b>TOP-350V</b>		65.0	97.5	117.0	1.0	1800	19.3 (20.7)

Note: For delivering oil with high viscosity (46-2000mm<sup>2</sup>/sec), such as high viscosity lubricant oil or gear oil. Values in ( ) show approx. weights of the pump when the valve is attached.

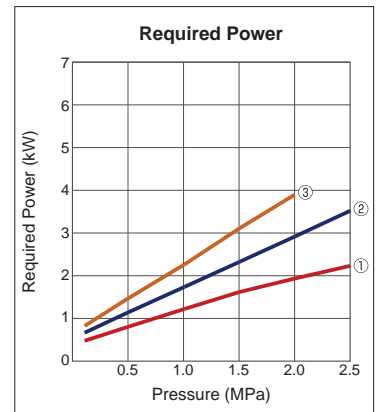
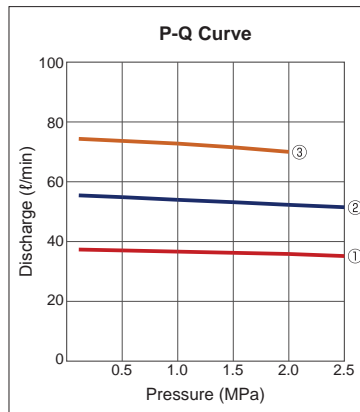
## ■ MOTOR SPECIFICATION

·Compatible motor: 2200, 3700, 5500W.

## ■ N3F Performance Curve

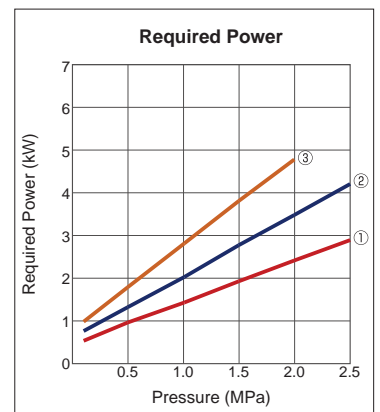
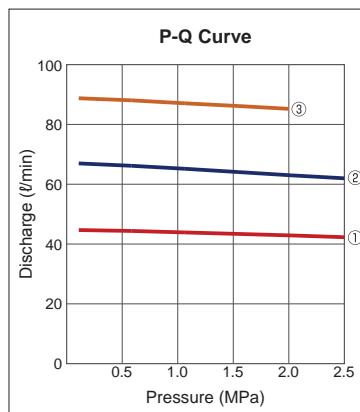
1450 min<sup>-1</sup>

① N320F      ② N330F  
③ N340F



1750 min<sup>-1</sup>

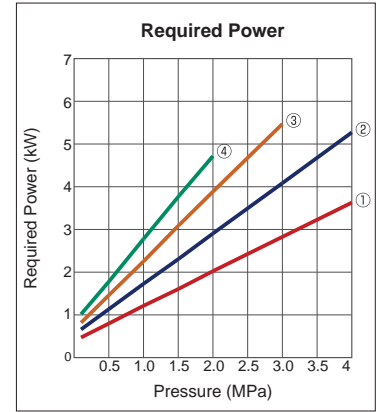
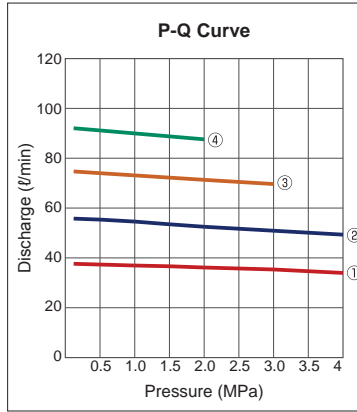
① N320F      ② N330F  
③ N340F



## ■ N3H Performance Curve

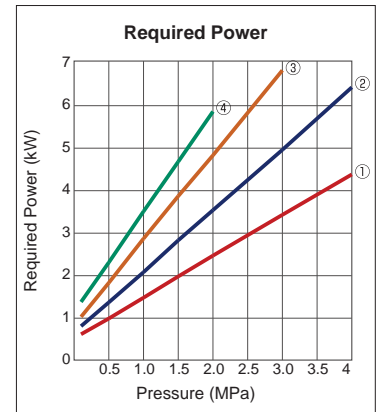
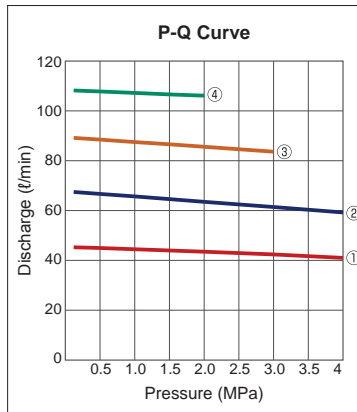
1450 min<sup>-1</sup>

① N320H    ② N330H  
③ N340H    ④ N350H



1750 min<sup>-1</sup>

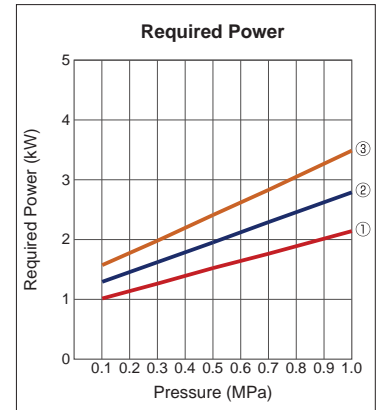
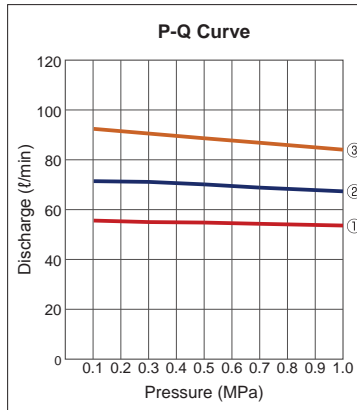
① N320H    ② N330H  
③ N340H    ④ N350H



## ■ 3V Performance Curve

1450 min<sup>-1</sup>

① 330V    ② 340V  
③ 350V



1750 min<sup>-1</sup>

① 330V    ② 340V  
③ 350V

