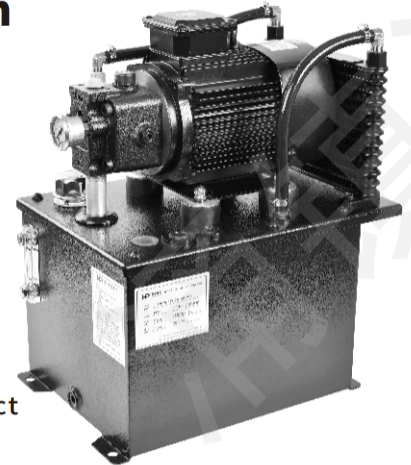


NSP Compact standardized hydraulic system

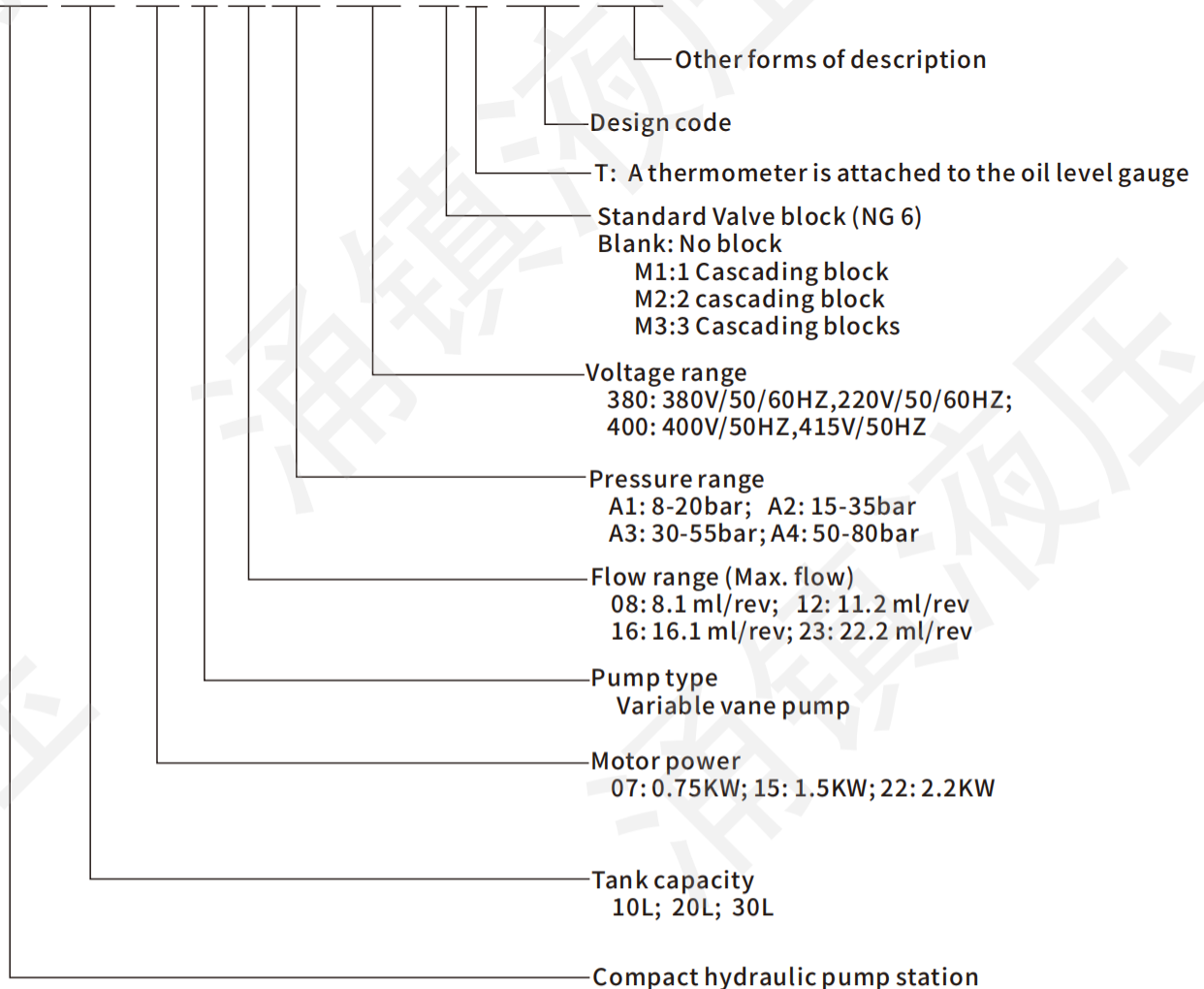
1. Oil tank with standardization, miniaturization, light weight, small space.
2. Hydraulic pump with new structure design, low noise.
3. The hydraulic pump is equipped with a check valve, without additional check valve, saving cost and space.
4. The hydraulic pump has good accuracy, sensitive response, and the response characteristic is only 0.2~0.3 seconds to complete the voltage regulation.
5. The oil circuit block is easy to install and directly fixed on the installation hole reserved on the surface of the hydraulic station, and the circuit selection is diversified.
6. The main pressure gauge can be directly installed on the back cover of the hydraulic pump, saving installation costs.
7. Energy saving, high efficiency, low heat. With the company SWL series of energy-saving low heat electromagnetic directional valve, can better reflect the hydraulic system of energy saving and low heat characteristics.



How to order

- Compact standardized hydraulic system

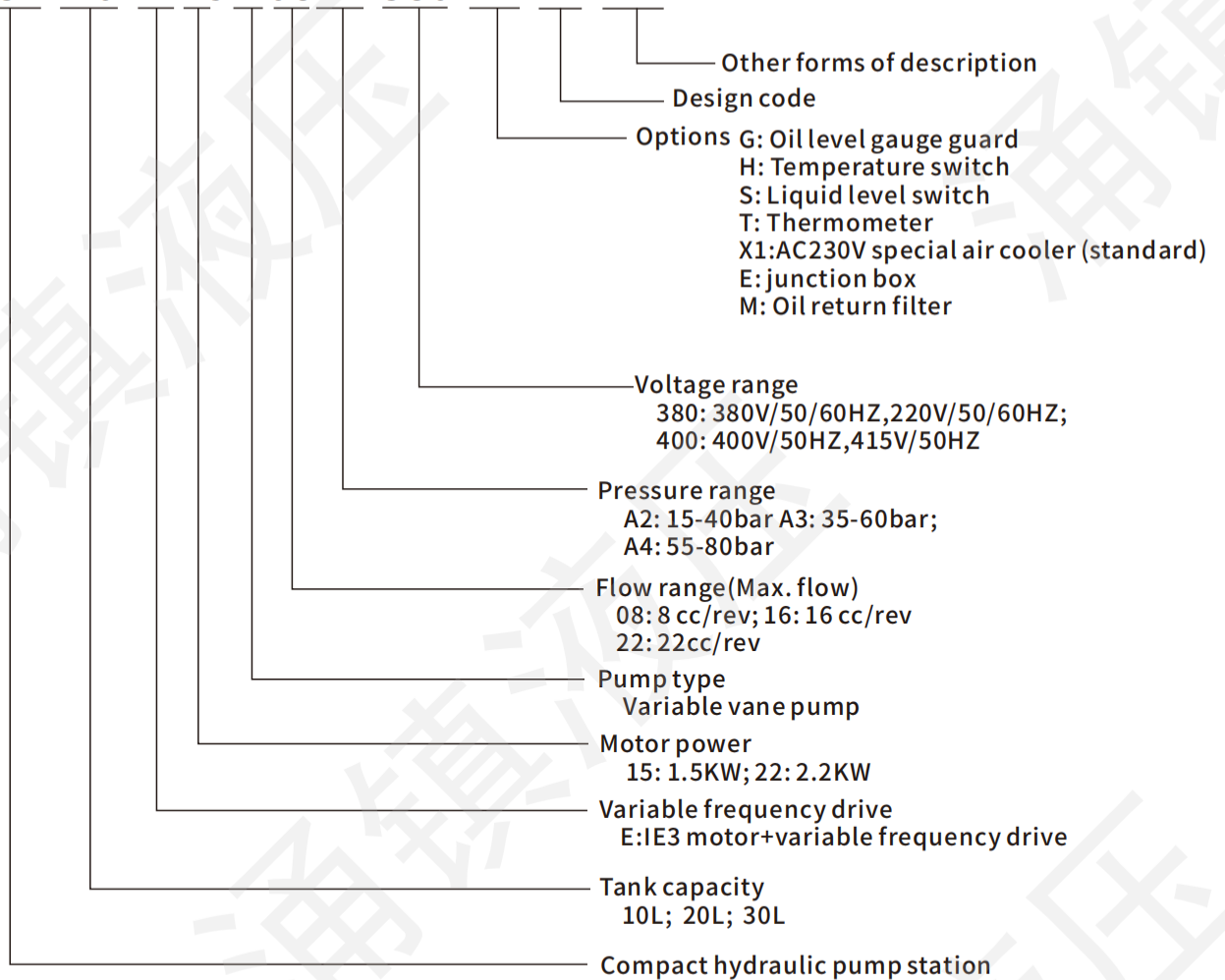
NSP -10 -07 V 08A2-380 -MT -A13 -***



Hydraulic power unit

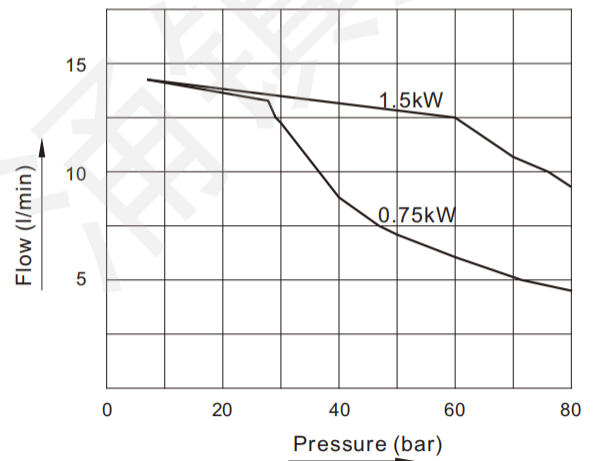
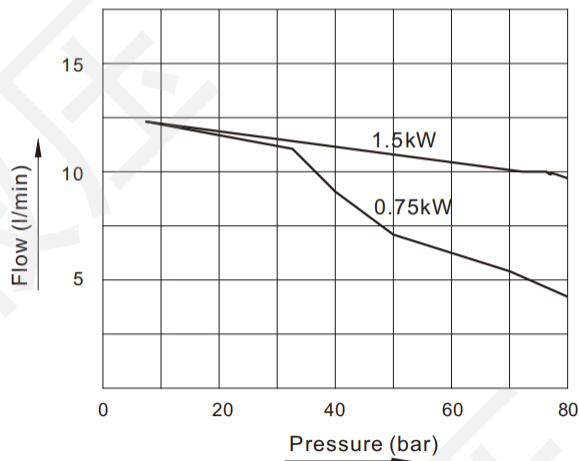
● NSP Compact standardized variable frequency hydraulic system

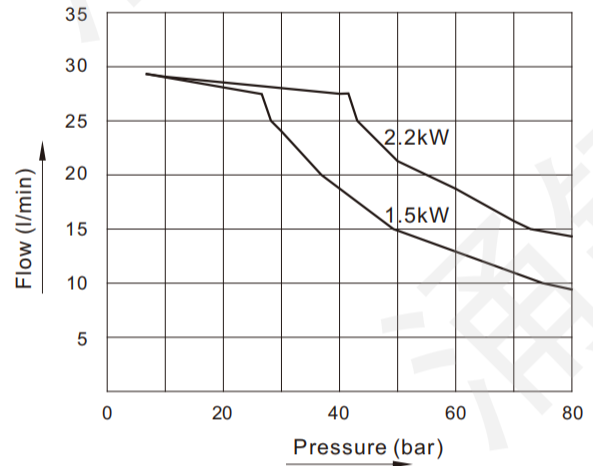
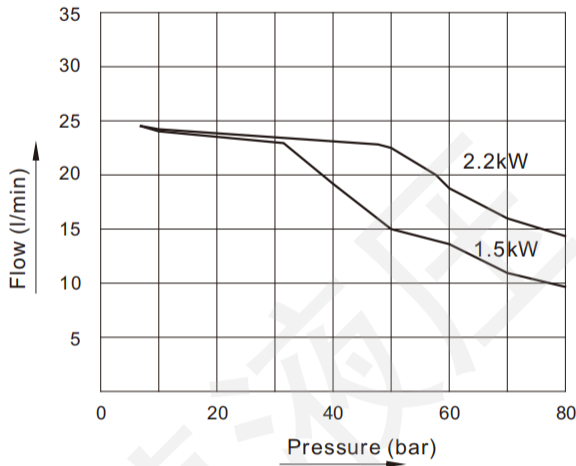
NSP -10 -E-15 V 08A2-380-X1-21-***



Characteristic curve

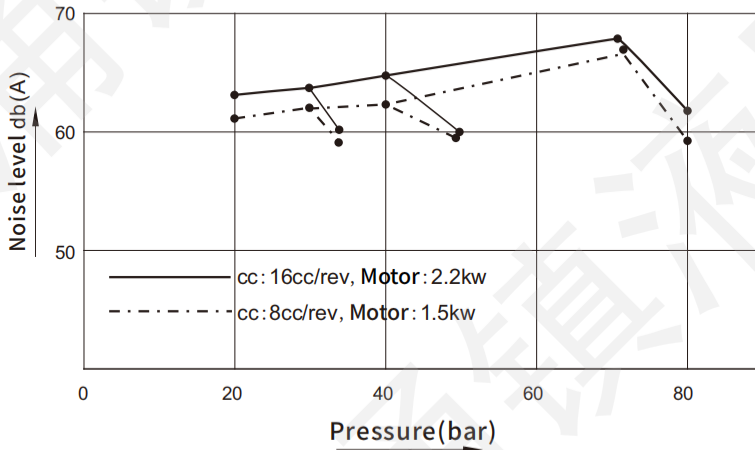
● Motor





Noise

Model: NSP-20-※V※A4-A13

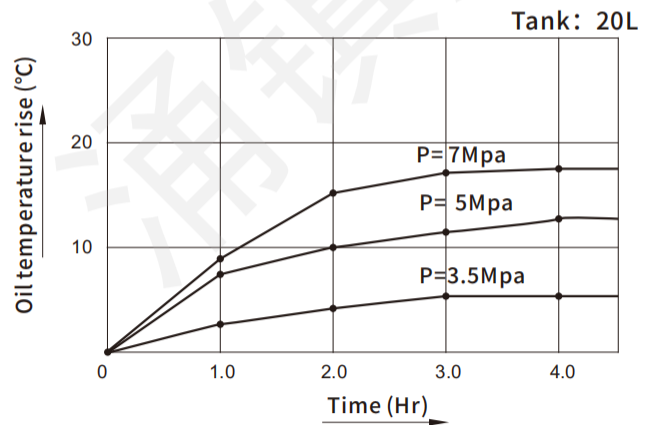
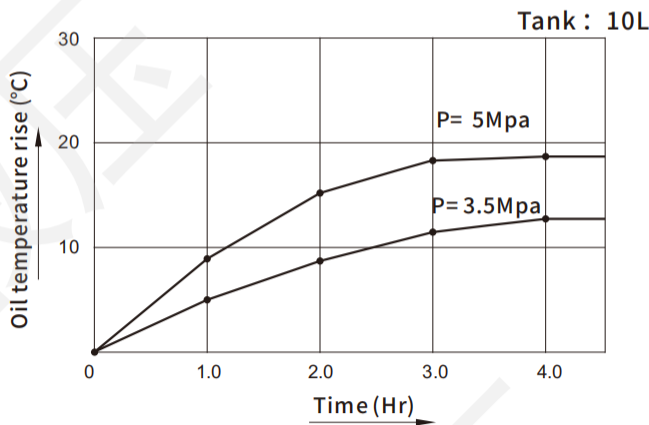


Temperature rising

Test conditions:

1. Oil viscosity: ISO VG32
2. Oil temperature: room temperature 30°C
3. Return speed: 1800r/min
4. Motor output: 0.75~2.2kw

Model: NSP-※※-※V16A※-A13

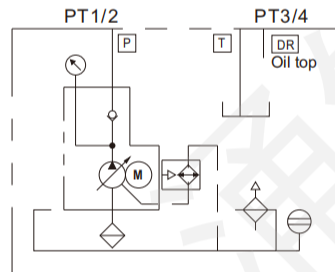
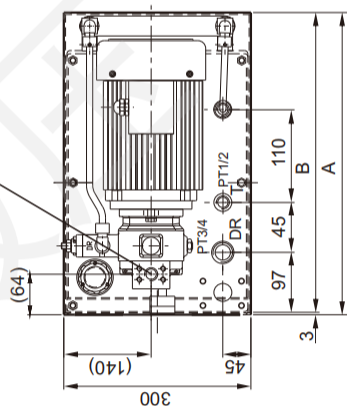
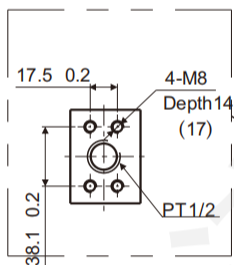


Hydraulic power unit

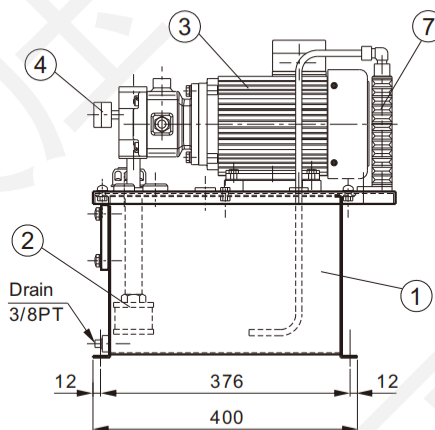
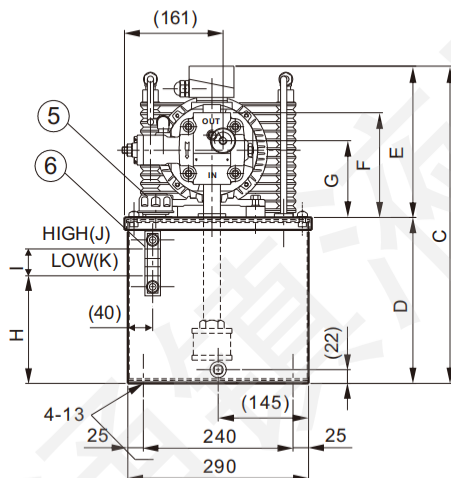
Dimensions

Units: mm

● NSP-※-※※V※A※-A13



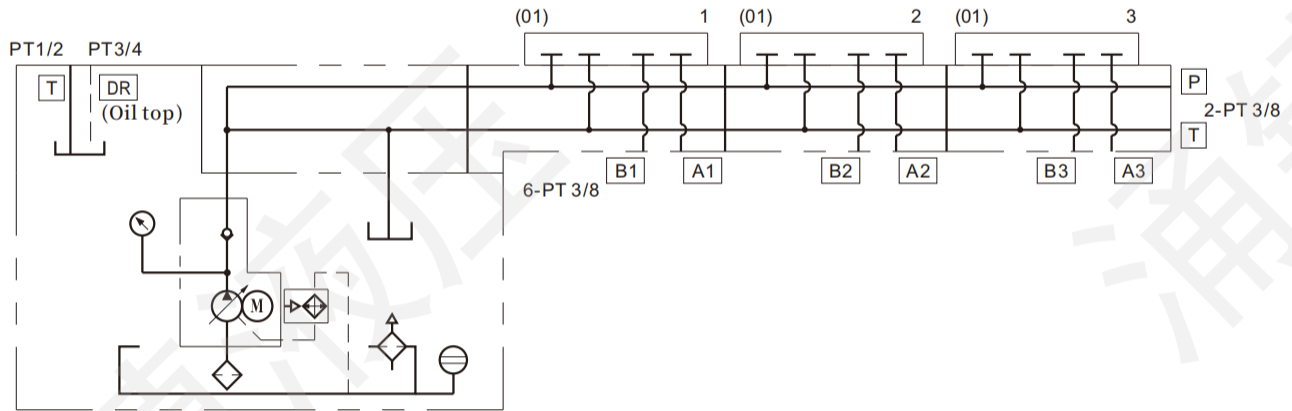
7	Cooler
6	Oil level gauge
5	Oil port
4	Pressure gage
3	Motor and oil pump
2	Oil-filter screen
1	Oil tank
No.	Parts



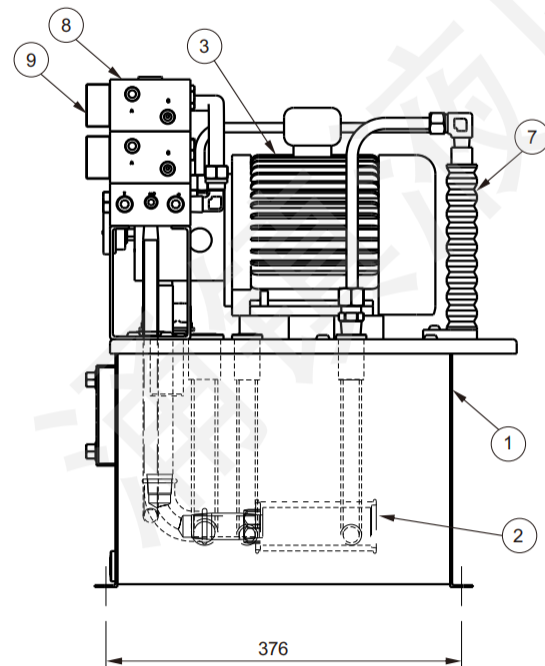
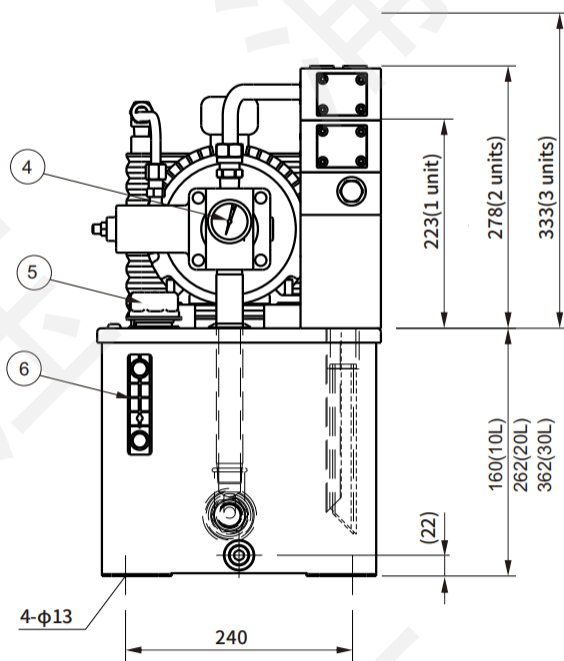
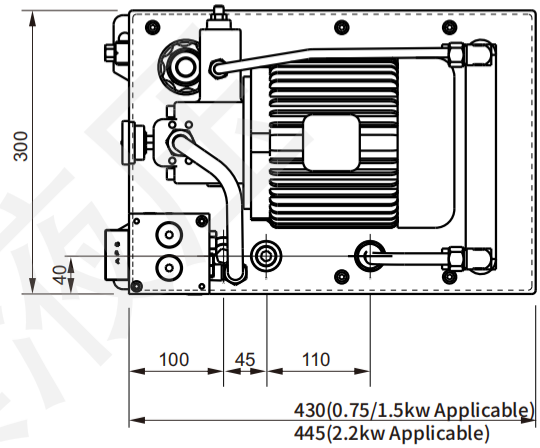
Model	Power (kw)	Size										Estimated weight kg(lbs)	
		A	B	C	D	E	F	G	H	I	J		K
NSP-10-07※V※A※-※-※A13	0.75	430	427	385	160	225	154	109	102	10	10L	9L	36
NSP-10-15※V※A※-※-※A13	1.5	430	427	409		249	164	119					42
NSP-10-22※V※A※-※-※A13	2.2	445	442	431		271	174	129					48
NSP-20-07※V※A※-※-※A13	0.75	430	427	487	262	225	154	109	185	30	20L	17L	39
NSP-20-15※V※A※-※-※A13	1.5	430	427	511		249	164	119					45
NSP-20-22※V※A※-※-※A13	2.2	445	442	533		271	174	129					51

● **NSP-**-**V**A**-380-M**-A13**

Units: mm



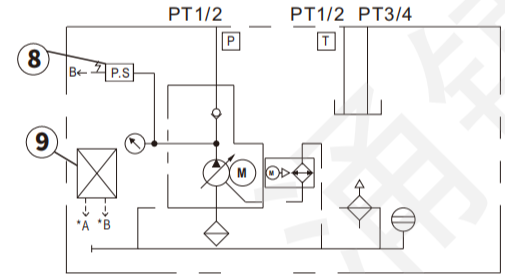
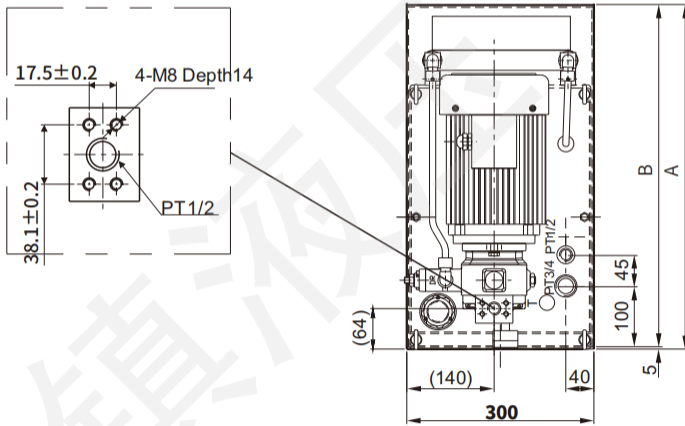
9	Oil circuit plate
8	Oil circuit block
7	Cooler
6	Oil level gauge
5	Oil port
4	Pressure gage
3	Motor and oil pump
2	Oil-filter screen
1	Oil tank
No.	Parts



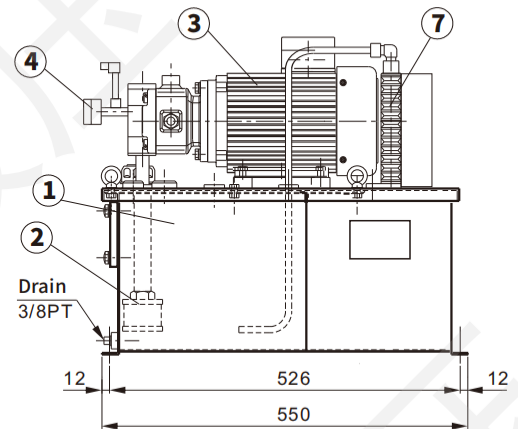
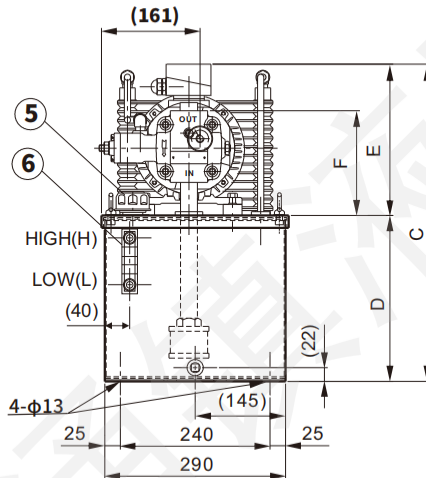
Hydraulic power unit

Units: mm

● **NSP-**-E-**V**A**-**-21**



9	Transducer control
8	Pressure sensor
7	Cooler
6	Oil level gauge
5	Oil port
4	Pressure gage
3	Motor and oil pump
2	Oil-filter screen
1	Oil tank
No.	Parts



Model	Power (kw)	Size							Estimated weight kg(lbs)	
		A	B	C	D	E	F	H		L
NSP-10-E-15V**A**-**-21	1.5	510	500	501	265	236	165	10L	8.5L	46
NSP-10-E-22V**A**-**-21	2.2	540	500	521	265	256	174			51
NSP-20-E-15V**A**-**-21	1.5	510	500	601	365	236	164	20L	16L	49
NSP-20-E-22V**A**-**-21	2.2	540	500	621	365	256	174			54

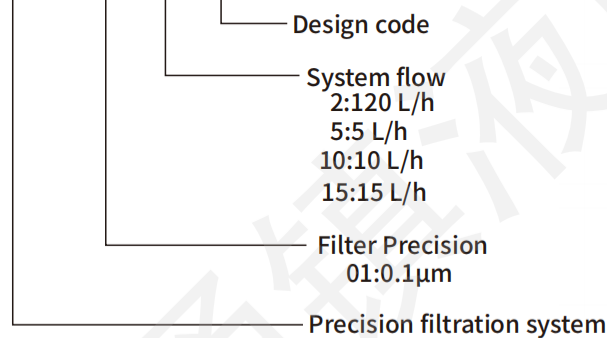
HBU precision filtration system

The precision filter system is composed of motor pump, control panel, coarse filter, fine filter and other main components. Its main features:

1. Filter micron level solid impurities, sludge, oxidation cracking and water.
2. High filtration accuracy, after one filtration, the oil accuracy can reach NAS7 level. (The new oil is generally more than NAS10) after multiple cycles of filtration, it can reach below 5.
3. Reduce the amount of oil residue by 40%-75%, save the purchase of lubricants and hydraulic oil by 30%-65%, and save the machine maintenance cost by 25%-35%.
4. Multiple application functions, with power short circuit self-protection, vacuum and working pressure display, operating status display and other functions.
5. Good maneuverability, small size, beautiful appearance, easy operation, even one square meter of space can be freely adjusted position.
6. Wide range of application, suitable for precision filtration of any industrial oil products except gasoline. Can be used as a refueling machine, but also can be used for online filtration, offline filtration, waste oil regeneration filtration and other purposes.

How to order

HBU -01 -2 -10

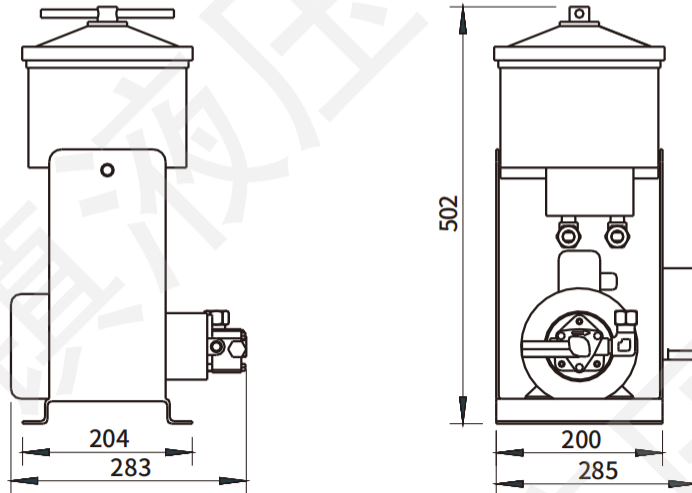


● Specification

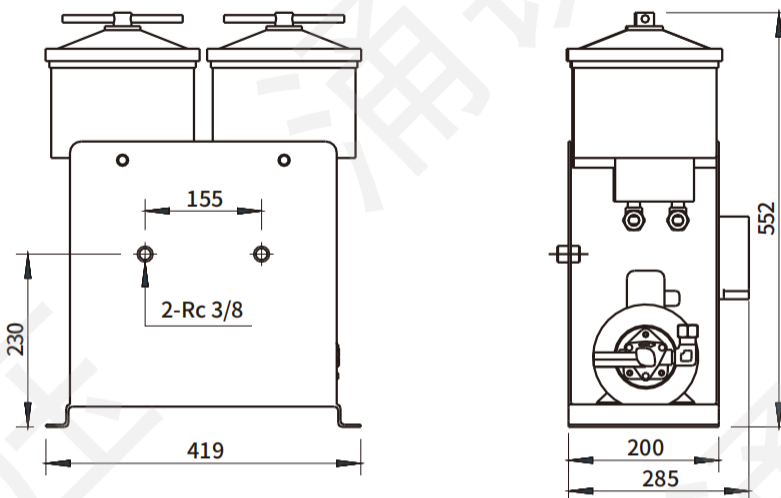
Model	HBU-01-2-10	HBU-01-5-10	HBU-01-10-10	HBU-01-15-10
Volume (m m)	260×562×588	260×562×588	495×562×685	495×784×760
Net weight	35kg	40kg	130kg	140kg
Motor data	380V/220V 3 phase 4P(50Hz) 0.18kw		380V/220V 3 phase 4P(50Hz) 0.25kw	380V/220V 3 phase 4P(50Hz) 0.25kw
Pump channel flow pressure	0.5MPa			
Normal flow	120L/H	300L/H	600L/H	900L/H
In & out caliber	PT3/8"	PT3/8"	PT1/2"	PT1/2"
Coarse filter element	MF-04	MF-04	PF-06-10-20	PF-06-10-20
Fine filter element	ME-100-114×1	ME-100-114×2	ME-100-114×4	ME-100-114×6
Oil temperature range	≤80°C			

Dimensions

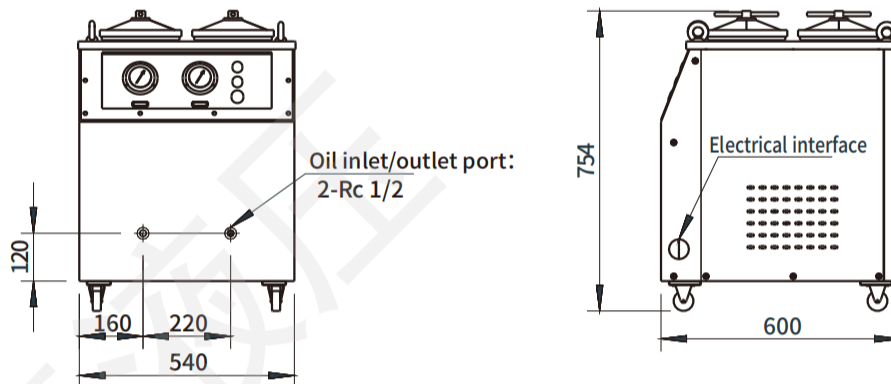
● HBU-01-2-10



● HBU-01-5-10



● HBU-01-10-10



How to order

I. Method of replacing filter element:

1. Stop and wait for the pressure to zero, turn the T-bolt loose (pay attention to the sealing ring) to take the cover.
2. Hold the shoulder strap of the filter with both hands and lift it upward. If it is too tight, turn it left and right.
3. If it is impossible to turn or the band is disconnected, the pliers can be used to remove the inner paper tube of the filter element first, and the inner ring will be decomposed in turn and all the objects inside will be removed.

II. Place the new filter in the cylinder and press to the bottom, ensuring that the O-ring on the lid is intact, while the O-ring is in the sealing groove, cover the lid, tighten the T-bolts clockwise.

(Note: Check that the O-ring on the T-bolt cannot fall off.)

III. Replace the filter element standard:

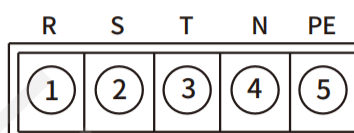
The use time of the filter element reaches 6 months, or when the oil temperature is higher than 30 °C, the working pressure of the oil filter is above 5bar for a long time, please replace the filter element.

IV. Common problems, causes and Countermeasures:

Problems	Causes	Countermeasures
Pressure gauge failure	<ul style="list-style-type: none"> ● Oil inlet valve is not fully open ● Check for debris blocking flow control valve ● Pressure gauge failure 	<ul style="list-style-type: none"> ● Check and fully open the oil valve ● Check the flow valve orifice or contact the supplier ● Change the pressure gauge
Pressure gauge indicating too high (>5bar)	<ul style="list-style-type: none"> ● The filter element is saturated and blocked ● High back pressure ● The filter element inhales too much water to cause cracking ● Cold machine starts, oil temperature is low ● New filter element 	<ul style="list-style-type: none"> ● Replace the filter element ● Shorten the return pipe (within 1.5 meters) or use a larger diameter pipe ● Please solve the problem of excessive water and replace the new filter element ● Normal; The pressure drops slowly as the oil temperature rises ● Normal; After the newly installed filter element is completely absorbed, the pressure will slowly decrease
Oil leak	<ul style="list-style-type: none"> ● Tubing loose ● Seal failure 	<ul style="list-style-type: none"> ● Lock the tubing ● Replace the seal
Poor filtration effect	<ul style="list-style-type: none"> ● Missing filter element ● The filter element is not in place ● Cartridge clogging ● The safety valve is not tightly sealed 	<ul style="list-style-type: none"> ● Load the filter element ● Install the filter element ● Replace the filter element ● Clean safety valve

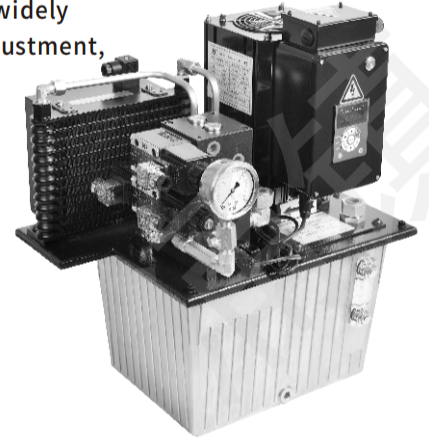
Wiring scheme

● Terminal diagram



NSP Compact standardized servo hydraulic system

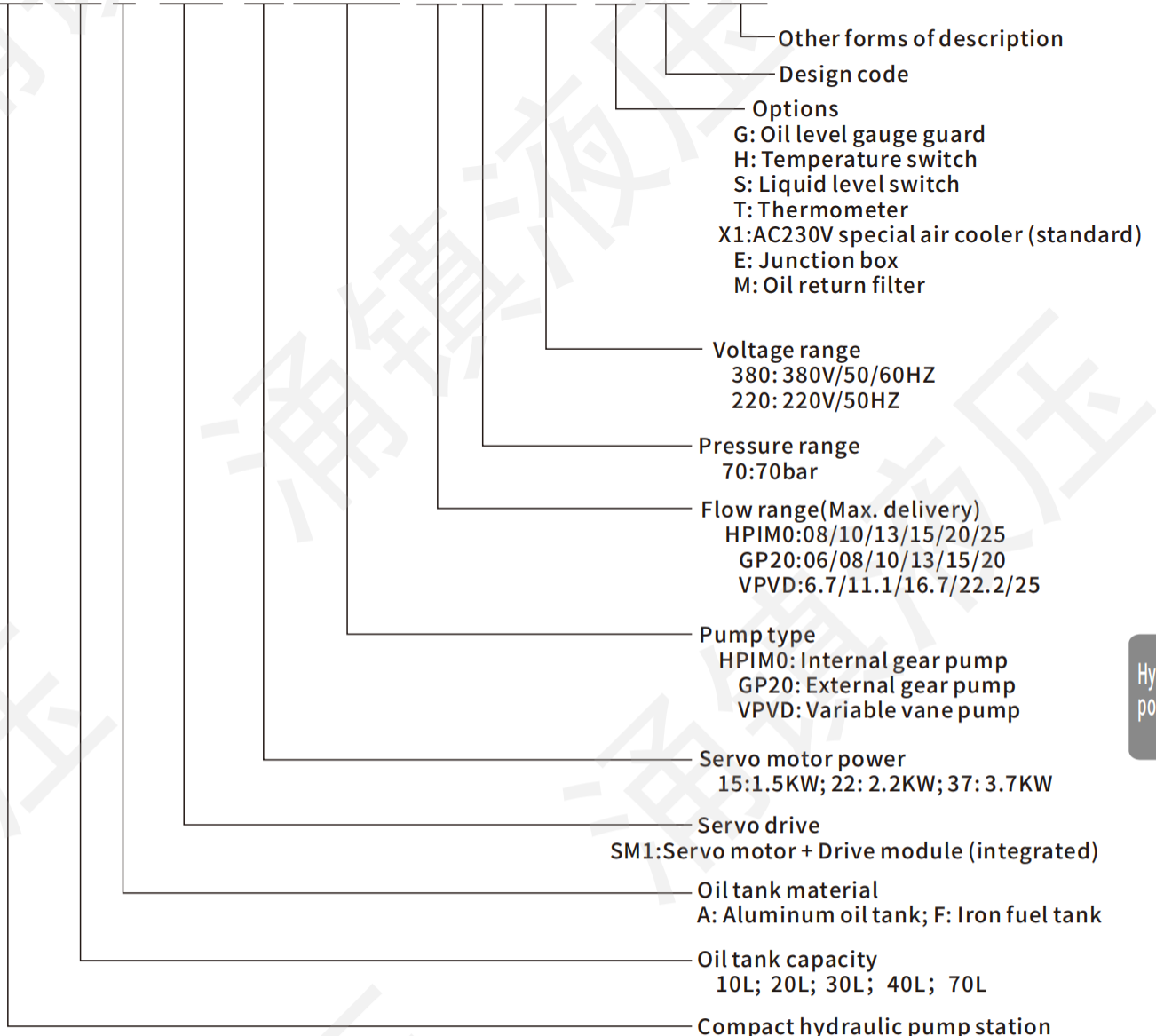
1. Ac servo hydraulic system is a kind of fast and precise control hydraulic power station widely used in machinery industry. It can achieve high speed, high precision position, speed adjustment, torque adjustment, widely used in working machine, rubber and plastic, bending and shearing equipment..... Servo hydraulic system has the advantages of energy saving, low noise, small temperature rise, good flexibility, fast reaction time and high efficiency.
2. High energy efficiency: closed-loop control with efficient servo motor + pump + integrated controller + pressure sensor. Through the closed-loop feedback signal and the driver calculation, the electrical energy is rationally arranged and the mechanical energy is converted to achieve the intelligent hydraulic power station.
3. Compact layout.



How to order

- Compact standardized servo hydraulic system

NSP -10 A -SM1-15 HPIM0 0870-380-X1-21-***



Hydraulic power unit

Customized hydraulic system

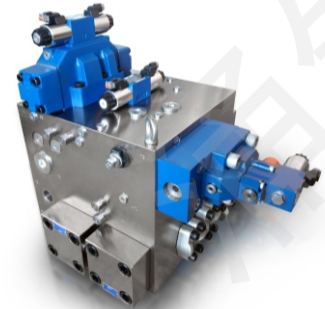
Professional production of all kinds of non-standard and standard hydraulic station and other hydraulic equipment, widely used in heavy industry, automobile industry, machine tool, coal mine, press, plastic machine and other industries.



Servo hydraulic system for Shearing equipment



Energy-saving hydraulic system



Logic valve secondary system



Compact hydraulic system



Special hydraulic system for Injection molding machine



Gantry static pressure system



Hydraulic system for CNC crankshaft grinder



Hydraulic system for Disc machine



Hydraulic system for Gear shaper



Hydraulic system for large CNC plate rolling machine



Hydraulic system for CNC



Hydraulic system for Gantry machining center