

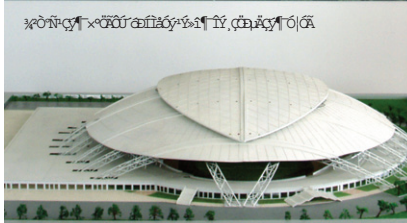
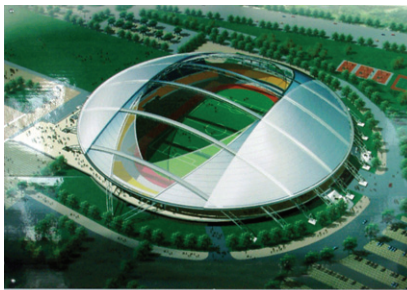
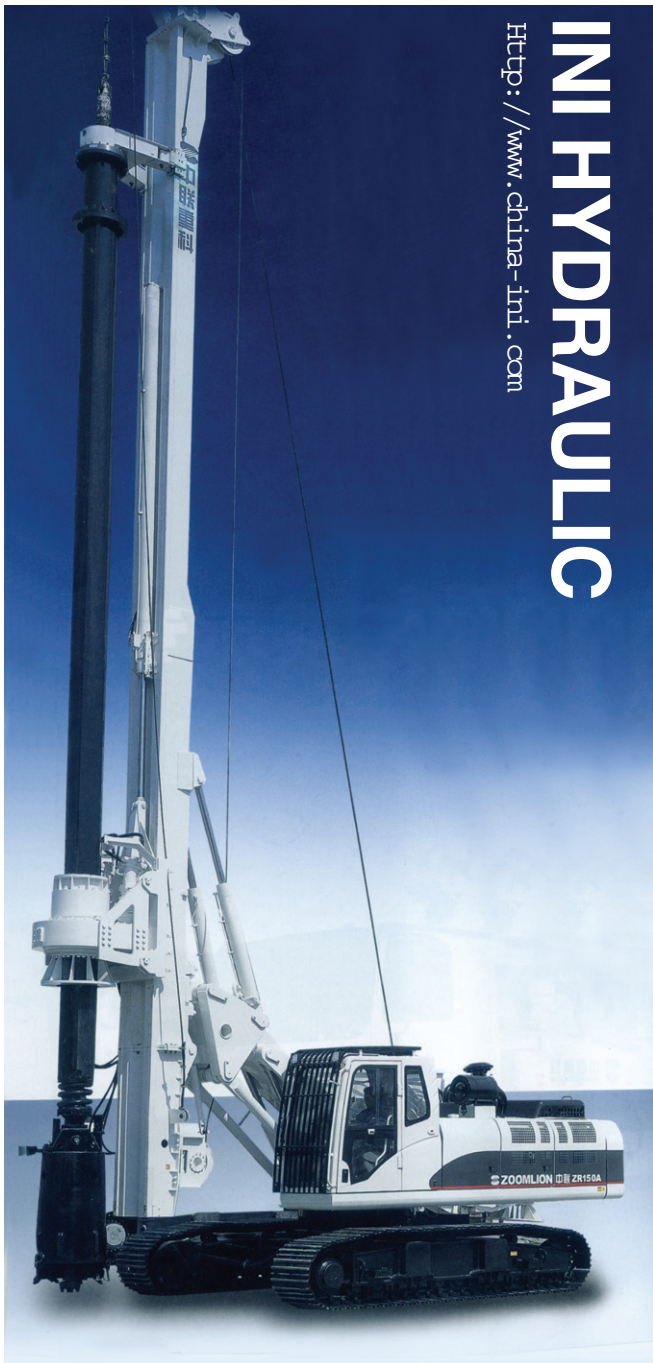
***ini***<sup>®</sup> NINGBO DAGANG INI  
HYDRAULIC CO.,LTD.



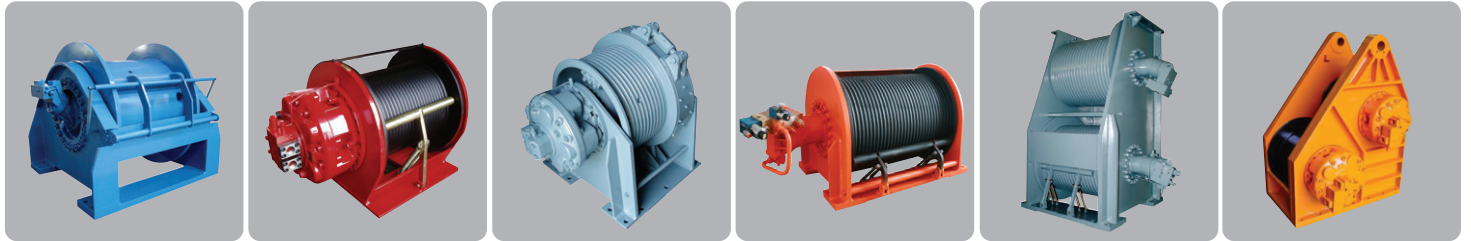
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**2010** Catalogue

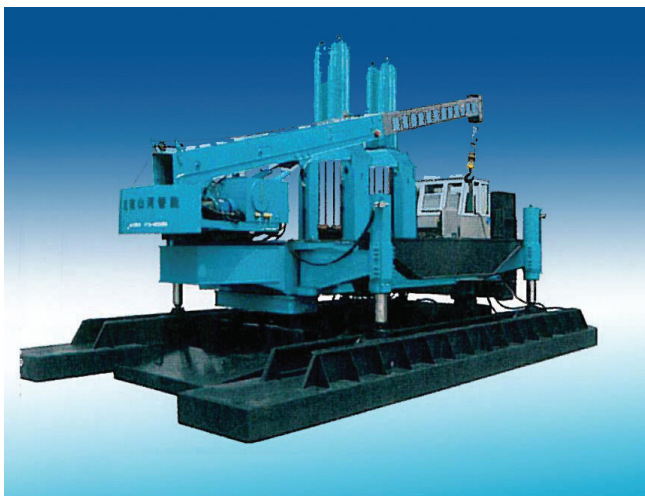
# Product Shows & Applications



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# Brief Introduction



NINGBO DAGANG INI HYDRAULIC CO., LTD is situated in a state-level economic and technological development zone of BEILUN district, NINGBO. The factory covers almost 40,000 m<sup>2</sup>, with 38,000 m<sup>2</sup> building area. The registered capital is 6,500,000 USD, and the total investment is 15,000,000 USD. Currently, the company is staffed with 400 employees, 20% among whom are professional technicians. The company has a strong R&D team, led by the general manager—a professorate senior engineer, who takes special allowance from State Council. The team also includes one doctor, two masters, senior engineers, engineers and engineer trainees, and two retired German experts from ZF GROUP as honor employees. They will come to the factory to help and give advices once a year. Up to now, the company owns eight invention patents and thirty practical innovation and figure patents. Several other patents are under reviewing. The company is specialized in manufacturing of electro-hydraulic proportional valves, hydraulic motors, hydrostatic drives, hydraulic winches, planetary gearboxes, high accuracy rotary flow dividers and the whole set of hydraulic system. These patent products are widely used in engineering machinery, petroleum, mining industry, geological exploration, ships, metallurgy, light industry, agriculture, landscape, environment and military industry. Now we are stepping into the international market, and our products are being exported to Southeast Asia, Middle East, Germany, USA, Netherlands, Turkey, India, Russia, Korea and other countries and regions around the world.

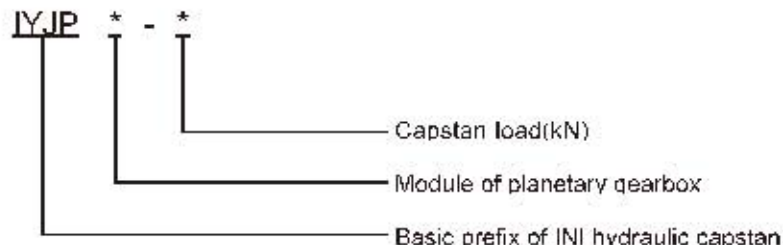
The company has more than 150 advanced manufacturing equipment, half of which were imported. 60% of all the machines are CNC, including three-dimension coordinate measuring machine, universal gear measuring machine, digital ultrasonic inspection machine, and universal tool microscope. A static hydrostatic drives lab and 12 factory test stands were established for product testing. The company passed ISO 9001 quality system certification, CCS certification and CE certification. The annual sales volume reaches 250 million RMB, with a production capacity of over 300 million RMB. The company was appraised as a state-level high-tech enterprise and is a patent pioneer enterprise.

## IYJP Hydraulic Capstan Series

### 1. Brief Introduction

IYJP hydraulic capstan series are patent products of our company. They consist of valve blocks with function of brake and overload protection, hydraulic motor, planetary gearbox, wet type brake, capstan head, frame and so on. Due to fit with valve block, not only simplified the design of hydraulic system but also improved the reliability of drives. In addition, the series feature high startup efficiency and working efficiency, high power, low noise, compact figure, good economy. Therefore the series have been widely applied in ship and deck machinery. The series not only have been popular in domestic market, but also have been exported to Southeast Asia, Holland, Australia and so on.

### 2. Model Options

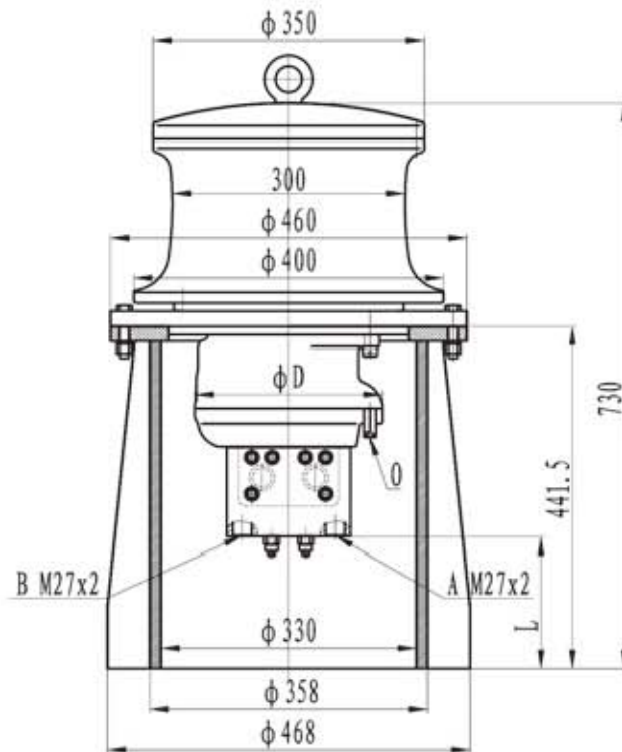


### 3. Options Example

IYJP3-20 represents that the series capstan adopts single stage planetary gearbox, the module of gearbox is 3, and the capstan load is 20kN.

### 4. Parameter Description

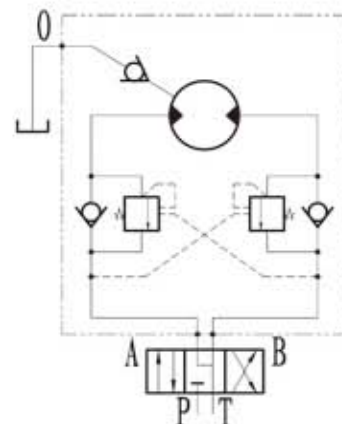
- Total displacement represents capacity of oil supply per revolution.
- Capacity of oil supply represents theoretic oil flow from supply pump.
- Working pressure differential represents pressure drop between inlet port and outlet port of hydraulic motor.

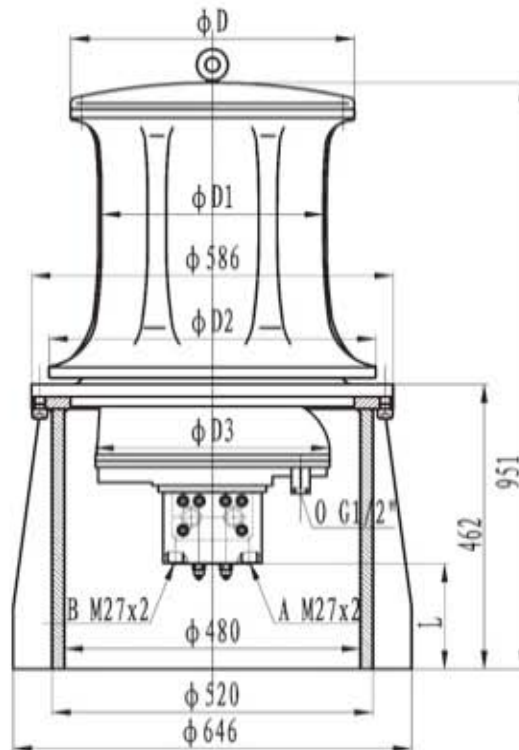


Model	System load (KN)	Nominal speed (m/min)	Diameter of rope (mm)	Working pressure differential (MPa)	Displacement (ml/r)	Oil supply (L/min)	Hydraulic motor model	Planetary gearbox model	D	L	O
IYJP3-10	10	25	13	14	860	25	INM1-175D47+F1202	C3AC(I=5)	242	170.6	G1/4"
IYJP3-20	20	20	15	12	2125	48	INM2-420D47+F1202	C3AC(I=5)	304	144.6	G1/2"
IYJP3-30	30	20	17	13	2825	63	INM2-550D47+F1202	C3AC(I=5)	304	144.6	G1/2"

Note: When the neutral position function of 3/4 directional valve is "o" or "M" type, crossover relief valve should be setted between hydraulic motor and bi-counterbalance valve.

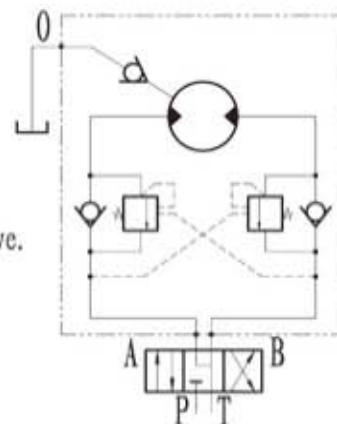
Hydraulic principle diagram



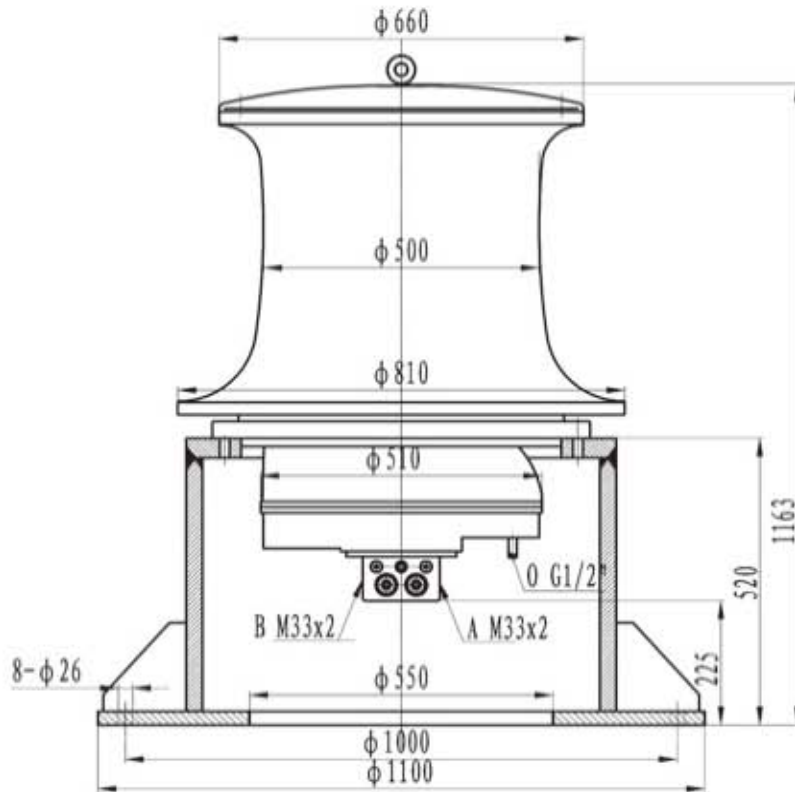


Model	System load (KN)	Nominal speed (m/min)	Diameter of rope (mm)	Working pressure differential (MPa)	Displacement (ml/r)	Oil supply (L/min)	Hydraulic motor model	Planetary gearbox model	D	D1	D2	D3	L
IYJP4-40	40	15	20	14.5	3960	56	INM3-800D47+F1202	C4AC(I=5)	460	360	540	380	171.5
IYJP4-50	50	15	20	14.5	4935	69	INM3-1000D47+F1202	C4AC(I=5)	460	360	540	380	171.5
IYJP4-60	60	15	22	16.5	6138	72	INM4-1100D47+F1202	C4DC(I=5.5)	530	430	600	410	152.5
IYJP4-70	70	15	22	16.5	7238	85	INM4-1300D47+F1202	C4DC(I=5.5)	530	430	600	410	152.5

Hydraulic principle diagram

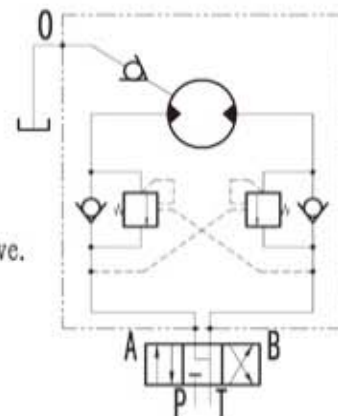


Note: When the neutral position function of 3/4 directional valve is "o" or "M" type, crossover relief valve should be setted between hydraulic motor and bi-counterbalance valve.



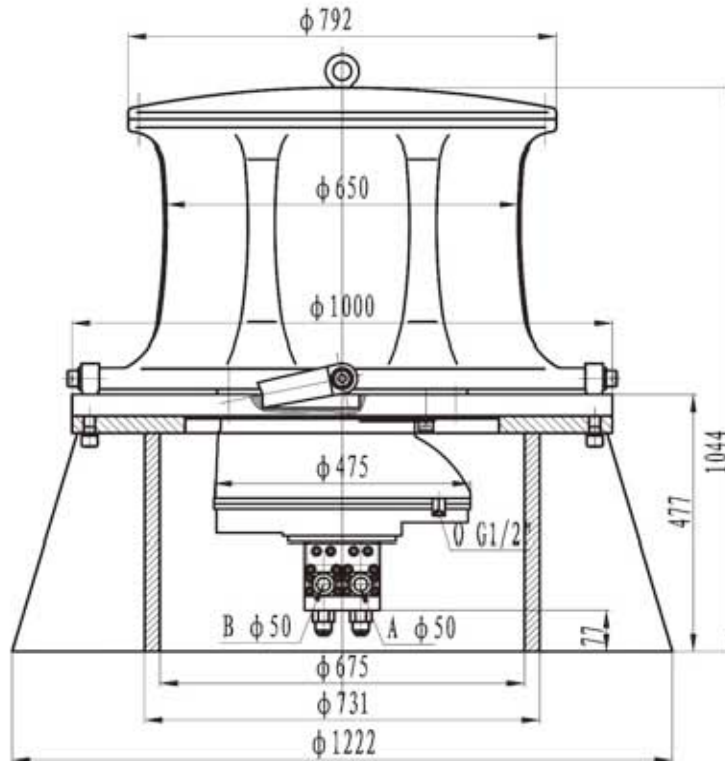
Model	System load (KN)	Nominal speed (n/min)	Diameter of rope (mm)	Working pressure differential (MPa)	Displacement (ml/r)	Oil supply (L/min)	Hydraulic motor model	Planetary gearbox model
IYJP5-80	80	15	24	13.5	11698.5	118	INM6-200002402	C5DC(1=5.5)
IYJP5-90	90	15	26	13	13821.5	140	INM6-250002402	C5DC(1=5.5)
IYJP5-100	100	15	28	12	16725.5	168	INM6-300002402	C5DC(1=5.5)

Hydraulic principle diagram



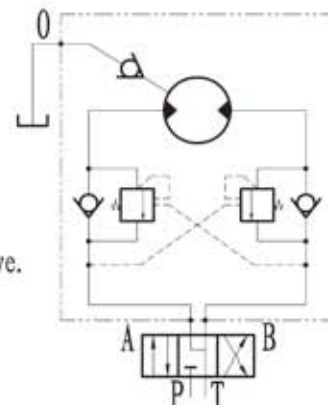
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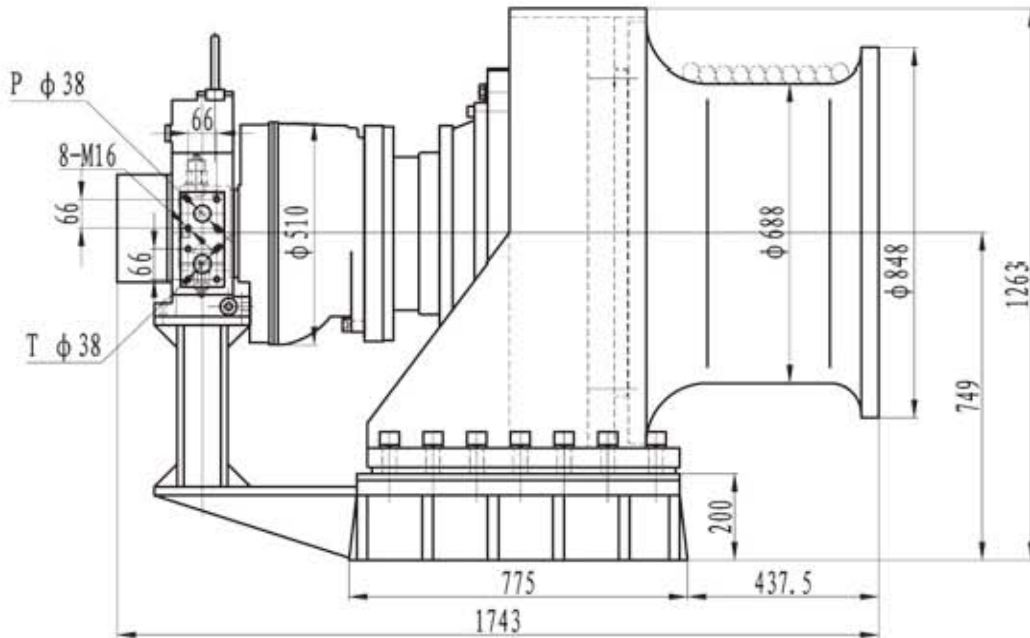


Model	System load (KN)	Nominal speed (m/min)	Diameter of rope (mm)	Working pressure differential (MPa)	Displacement (ml/r)	Oil supply (L/min)	Hydraulic motor model	Planetary gearbox model
IYJP56-120	120	15	30	16.5	18960	148	INM5-1200D90+F4802	C56(I=16)
IYJP56-140	140	15	32	15.5	23392	182	INM5-1500D90+F4802	C56(I=16)
IYJP56-150	150	15	32	12	29056	226	INM5-1800D90+F4802	C56(I=16)
IYJP56-160	160	15	34	13	32112	249	INM5-2000D90+F4802	C56(I=16)

Hydraulic principle diagram

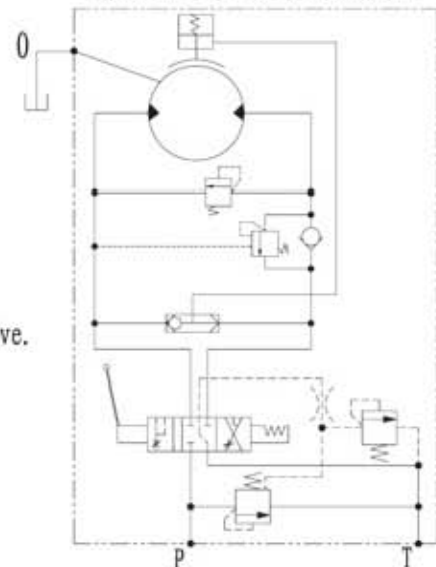


Note: When the neutral position function of 3/4 directional valve is "o" or "M" type, crossover relief valve should be setted between hydraulic motor and bi-counterbalance valve.



Model	System load (KN)	Nominal speed (n/min)	Diameter of rope (mm)	Working pressure differential (MPa)	Displacement (ml/r)	Oil supply (L/min)	Hydraulic motor model	Planetary gearbox model
IYJP79-240	240	10	36	14	46794	229	INM6-2000D90+F	C79(I=22)
IYJP79-260	260	10	36	13	55286	270	INM6-2500D90+F	C79(I=22)
IYJP79-280	280	10	38	11.5	66902	326	INM6-3000D90+F	C79(I=22)
IYJP79-300	300	10	38	12.5	66902	326	INM6-3000D90+F	C79(I=22)

Hydraulic principle diagram



Note: When the neutral position function of 3/4 directional valve is "o" or "M" type, crossover relief valve should be setted between hydraulic motor and bi-counterbalance valve.