POWER UNITS ORDERING GUIDANCE

YBZ □ (1)(2) - □□□□□□□ (3)(4)(5)(6)(7)(8) / □□□□□□ (9)(10)(11)(12)(13)(14)

(1) Product name:hydraulic power units

(2) Series No.,which would be changed once there comes big improvement of the whole.power units.It comes into 1,2,3,4. Especially,the No.5 represents manifold made of aluminium. the No.6 represents manifold made of die-casting aluminium.

(3) System pressure, which is used to point out the preset pressure of the relief valve.
A-1.6MPa B-2.5MPa C-6.3MPa D-10MPa E-16MPa F-20MPa G-25MPa H-32MPa

(4) Rated pump displacement
①CBK series pumps;
0.63ml/r 0.8ml/r 1.2ml/r 1.6ml/r 2.1ml/r 2.5ml/r 2.7ml/r 3.2ml/r 3.7ml/r 4.2ml/r 5ml/r 6ml/r 8ml/r
②CBG series pumps;
2ml/r 3ml/r 3.5ml/r 4ml/r
③CBE series pumps
0.26ml/r 0.32ml/r 0.38ml/r 0.5ml/r 0.63ml/r 0.88ml/r 1.00ml/r 1.25ml/r 1.5ml/r

(5) Oil tank capacity
U—0.5L V—0.8L W—1.0L S—1.4L Y—1.5L Z—2.0L A—3.0L or 4.0L B—5L or 6L C—8.0L D—10L
E—12L F—14L G—16L H—20L I—22L J—25L K—35L L—50L M-60L N—70L P—80L Q—13L R—30L S—7L
X-2.5L T-100L TA-120L

(6) Motor voltage
①DC motor: 1-12V 2-24V 9-48V 10-72V 12-60V
②AC motor: 3—220V 4—380V 5—110V 6—415V 7—230/460V 8—115/230V 11—200V
13-110/220V 14-220/380V 15-230/400V 16-460V 17-400V 18-240V 19-120V 20-190/208-240/380V/460
21-230V 22-440V 23-100V 24-230/460/575V 25-208/230/460/380/400V 26-277V 27-220/44V 28-575V

(7) Motor power
①DC motor:X—0.25kw S—0.5kw T—0.8kw U—1.0kw V— 1.2kw W—1.5kw A—2.0kw M-2.2kw
N-2.5kw L-1.8kw B—3.0kw P-4.0kw
② AC motor:C—0.37kw D—0.55kw E—0.75kw F—1.1kw G— 1.5kw H—2.2kw I—3.0kw J—4.0kw
Q-0.85kw R-1.8kw K-3.7kw

(8) Hydraulic circuit No.See the hydraulic schematic circuit in the detailed page.

(9) Motor type
O—no motor
T—the motor with Special requirements
①AC motors
A—Steel housing, vertical & horizontal,9T Spline,the center distance of the mounting hole is 113x113.
B—Steel housing, vertical,9T Spline,the center distance of the mounting hole is 113x113.
G—Extruding aluminum housing. vertical & horizontal,Tang,the center distance of the mounting hole is 113x113.
H—Extruding aluminum housing. vertical,Tang,the center distance of the mounting hole is 113x113.
L—Casting aluminium housing. vertical & horizontal, 9T Spline,the center distance of the mounting hole is 113x113.
M—Casting aluminium housing. vertical,9T Spline,the center distance of the mounting hole is 113x113.
N—Casting aluminium housing. vertical & horizontal,Tang,the center distance of the mounting hole is 117.4x117.4.
② DC motors

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U—3 " DC motor(0.34HP-1.1HP)
V—3.5 " DC motor(1.1HP-1.6HP)
W—4.5 " DC motor(2HP-3HP)
X—5 " DC motor(4HP)

(10) Motor speed
O—Hydraulic system in the non-motor
T—the motor with Special requirements
①50HZ AC motor,50HZ A—960rpm B—1450rpm C—2850rpm D—1450/2850rpm
②60HZ AC motor,60HZ J—1100rpm K—1750rpm L—3450rpm
③50HZ/60HZ M-50HZ/60HZ N-50HZ/60HZ
④DC motor U—2500rpm V—3500rpm W—4500rpm

(11) ank appearance
A—neck i.d φ120, steel, round, horizontal.
B—neck i.d φ120, steel, round, vertical.
C—neck i.d φ120, steel, square, horizontal.
D—neck i.d φ120, steel, square, vertical.
E—neck i.d φ138, steel, round, horizontal.
F—neck i.d φ138, stee, round, vertical.
G—neck i.d φ138, steel, square, horizontal.
H—neck i.d φ138, stee, square, vertical.
J—neck i.d φ94, steel, round, horizontal.
K—neck i.d φ94, steel, round, vertical.
L—neck i.d φ94, steel, square, horizontal.
M—neck i.d φ94,steel, square, vertical.
N—neck i.d φ120, steel, round,200
P—neck i.d φ120,blow-molded plastic, round, horizontal.
Q—neck i.d φ120,blow-molded plastic, round, vertical.
R—neck i.d φ73, steel, square, horizontal.
S—neck i.d φ73, steel, square, vertical.
U—neck i.d φ120,injection molded plastic, round, horizontal.
V—neck i.d φ120,injection molded plastic, round, vertical.
O—non-tank
T—the tank with Special requirements.

(12) Solenoid valve volt
A—12VDC,without manual override function.
B—24VDC,without manual override function.
C—24VAC,without manual override function.
D—110VAC,without manual override function.
E—220VAC,without manual override function.
H—12VDC,with manual override function.
I—24VDC,with manual override function.
J—24VAC,with manual override function.
K—110VAC,with manual override function.
L—220VAC,with manual override function.
O—No solenoid valve.
T—The solenoid valve with special requirements.
Z—referring to the manual valve with micro switch.

(13) Manifold model is selected by manufacturer.

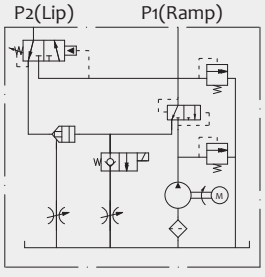
(14) Design No. which is selected by manufacturer,may be 1,2,3 or A,B,C.

POWER UNITS FOR DOCK LEVELER 2

General Description

- High Pressure Gear Pump/ AC Motor/Multi-functional Manifold/Valve/Tank
- Normally Closed Solenoid Operated Lowering Valve
- The Lowering Speed of Ramp and Lip is Adjusted by the Flow Control Valve

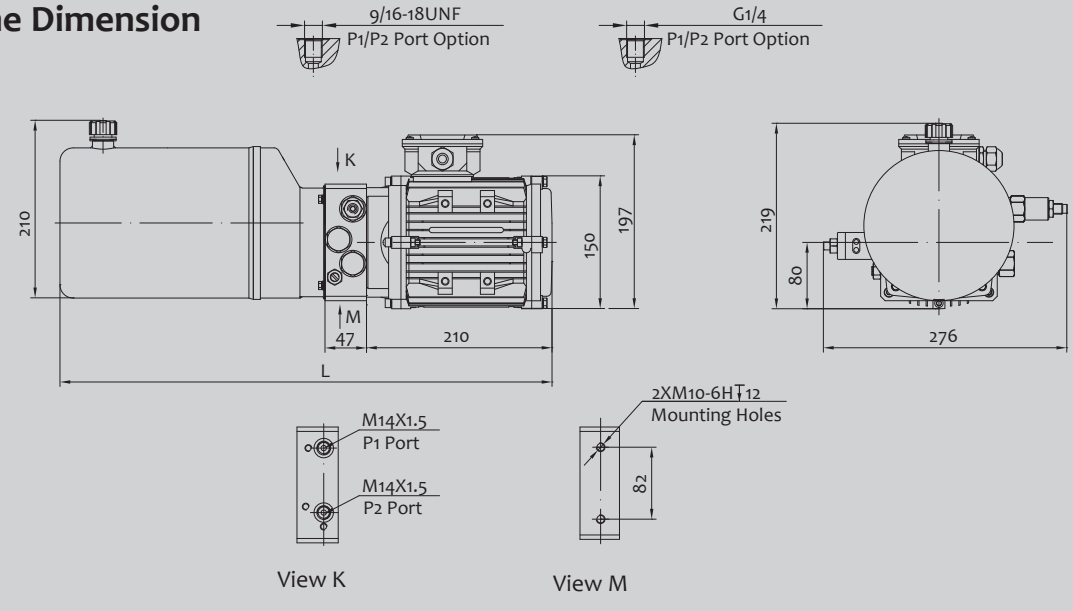
Hydraulic Circuit Diagram



Special Notes

- This type of power unit works at S3 duty cycle, i.e.,intermittent duty,1 minute on-load and 9 minutes off-load.
- Clean all the hydraulic parts concerned before mounting the power unit.
- Viscosity of the hydraulic oil shoud be 15~68 cst,which should also be clean and free of impurities.N46 hydraulic oil is recommended.
- Check the oil level in the tank after the initial operation of the power unit.
- Oil changing is required after the initial 100 operation hours,afterwards once every 3000 hours.

Outline Dimension



Model Specifications

Model	Motor Voltage	Motor Power	Rated Speed	Displacement	System Pressure	Tank Capacity	Solenoid Valve Voltage
YBZ5-E3.2B4F82/LBABT1	380VAC	1.1KW	1450RPM	3.2mL/r	16MPa	6L	24VDC
YBZ5-E2.7B4E82/LBABT1		0.75KW		2.7mL/r	14MPa		

Remark: Please go to page 1 or consult our sales engineer for the different pump displacement, motor power or system pressure.