INSTRUCTION MANUAL

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PAGE : 1 of 7

ONE POST THRUSTOR

• RO - 80, 50/6



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PAGE: 3 of 7

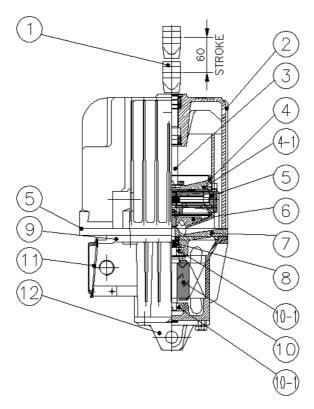
1. Features

This thrustor consists of the 3 phase induction motor at upper part and the pump at lower part.

When the power is on, Hyd. pressure is caused by impeller due to motor revolution and the thrustor rod connected with the piston will be raised. When the power is off, the thrustor rod will be lowered down by the exterior load and the piston connected with thrustor rod.

2. Construction

1) Internal Construction

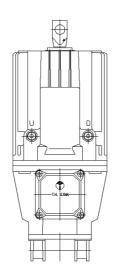


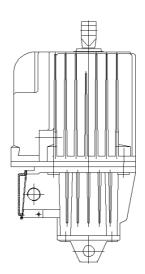
No.	ITEMS	No.	ITEMS	No.	ITEMS
1	rod end	6	IMPELLER	11	terminal box cover
2	CYLINDER	7	IMPELLER BASE	12	하부 BRACKET
3	PISTON SHAFT	8	OIL SEAL		
4	PISTON	9	MOTOR CASE		
4-1	PISTON SEAL	10	ROTOR SHAFT		
5	GASKET	10-1	BEARING		

THRUSTOR MANUAL

PAGE: 4 of 7

2) External Structure





3. Installation

The installation of thrustor should be vertical, there are two kinds method of installation. One is Bolt Fixing method as like Fig. A and the other is pin fixing method as like Fig. B. (For the PSA RMQC LATCH, Fixing method is Fig. A type)

4. Cable Wiring

Open the cover of thrustor box and connect the cable to terminal lug. Before connecting the cable, be sure that the voltage is coinsident with the one shown on the name plate. If there is no difference of UVW in terminal lug, free choiced 3 cables to be connected.

The lead cable of motor is classified as follows. AC 440 / 380V is blue, AC 220 / 200 is red.

5. Oil & Lubrication

The oil of thrustor should be that the viscosity is low, the international standard oil(Oil for transformer) and the purchasing is simple.

The oil is to be filled to the bottom of oil guide (Abt. 75~100mm from oil inlet plug).

For the air ventilation of thrustor interior, 3~4 times up and down operation of of thrustor should be done. And after suppling of oil, be sure that the operation of thrustor is smooth.

If the oil is insufficient, the thrusting speed is slow and the temperature of motor will become higher.

THRUSTOR	OIL Q'TY
RO - 80, 50/6	3.7ℓ

3) OIL SEAL

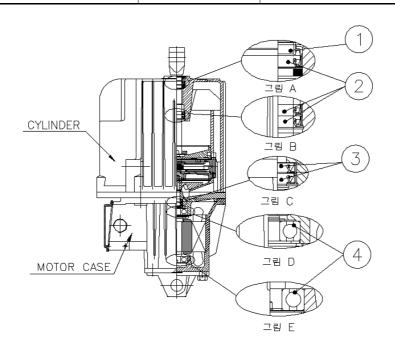
- . OIL seal uses it in order to to prevent that oil leaks to piston rod. It is good that exchanges one time of year degree this to lead if I use it many hours.
- . Exchange of oil seal disconnects former brake and thrustor.
- . A case of picture A,B replace shaft cover of thrustor after disconnections (BOLTING dismantling).
- . A case of picture pull out bearing, and I replace it after disconnecting impeller base of thrustor and motor case (bolting dismantling, a motor coil replacement.
- . Assemble it after confirmation without damage to a leak part of seal replacement.

ΝO	TYPE	STANDARD
fig A - ①	DUST SEAL	Ø20 x Ø32 x 6 / 9
fig A, B - 2	OIL SEAL	Ø20 x Ø32 x 7.5
fig C - ③	OIL SEAL	Ø12 x Ø25 x 7

4) BEARING

. When strange sound calls the occurrence in the middle of use in the insides, I replace bearing.

N O	TYPE	STANDARD
FIG D, E - 4	BALL BEARING	#6302 DDU



THRUSTOR MANUAL

PAGE: 7 of 7

5) Inspection and Maintenance

Phenomenon	No.	Reason	Countermeasure
• Lengthy time of	1	• Insufficiency of oil.	• Supply the oil to the bottom of oil guide.(9.41)
thrusting	2	• Dropping of inlet voltage	 After checking, take a measure to prevent the voltage drop.
	3	Bad winding of motor coil	• Replacement of coil
• Thrusting rod is not	4	• Bad contact point of lead cable.	Check the contact point and take a measure.
thrusted when power is on.	5	Bad assembly with counter parts	Check and take a measure.
	6	• Deform of thrustor rod	Replacement of thrustor rod
	7	Failure of bearing	• Replcement
• Abnormal noisy.	8	 Contact between rotational part and fixing part 	• Disassemble and take a measure.
	9	Bad insulation of motor coil.	• Replcement of motor coil
• Motor failure	10	Single phase operationInsulation dropping	Inspection of electric circuit and take a measure.
and maintenance	11	due to penetration of water and obstruction of rotor due to anti-rusting	Dry out by heating and cleanning out by disassembling
	12	Disconnection of coil	Replcement