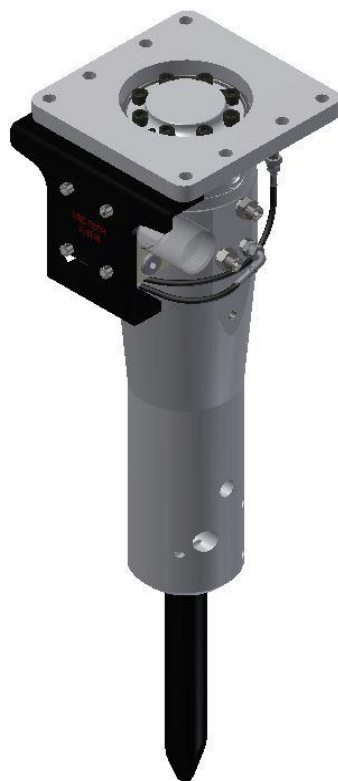


OPERATING MANUAL

AUTO GREASE PUMP

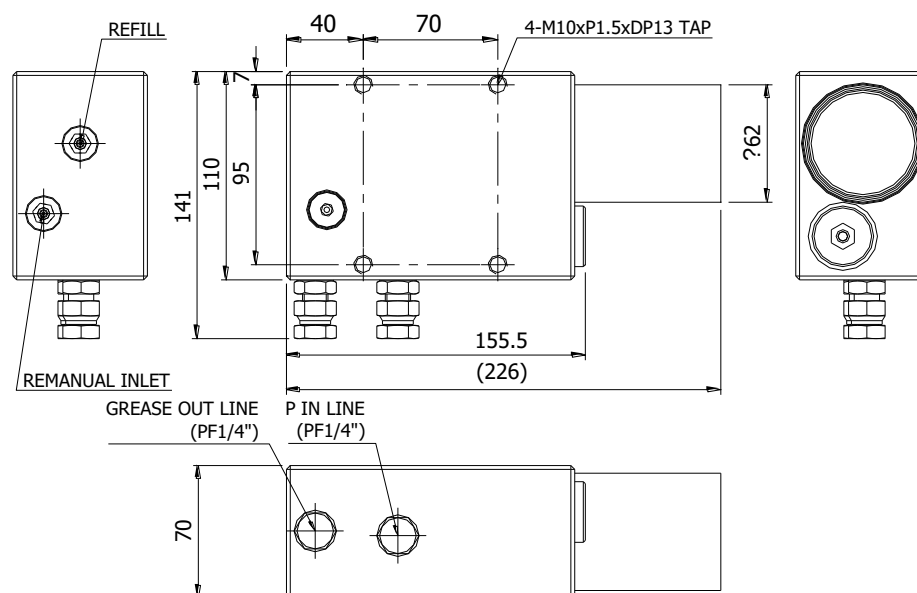
N1-400



PROTECH

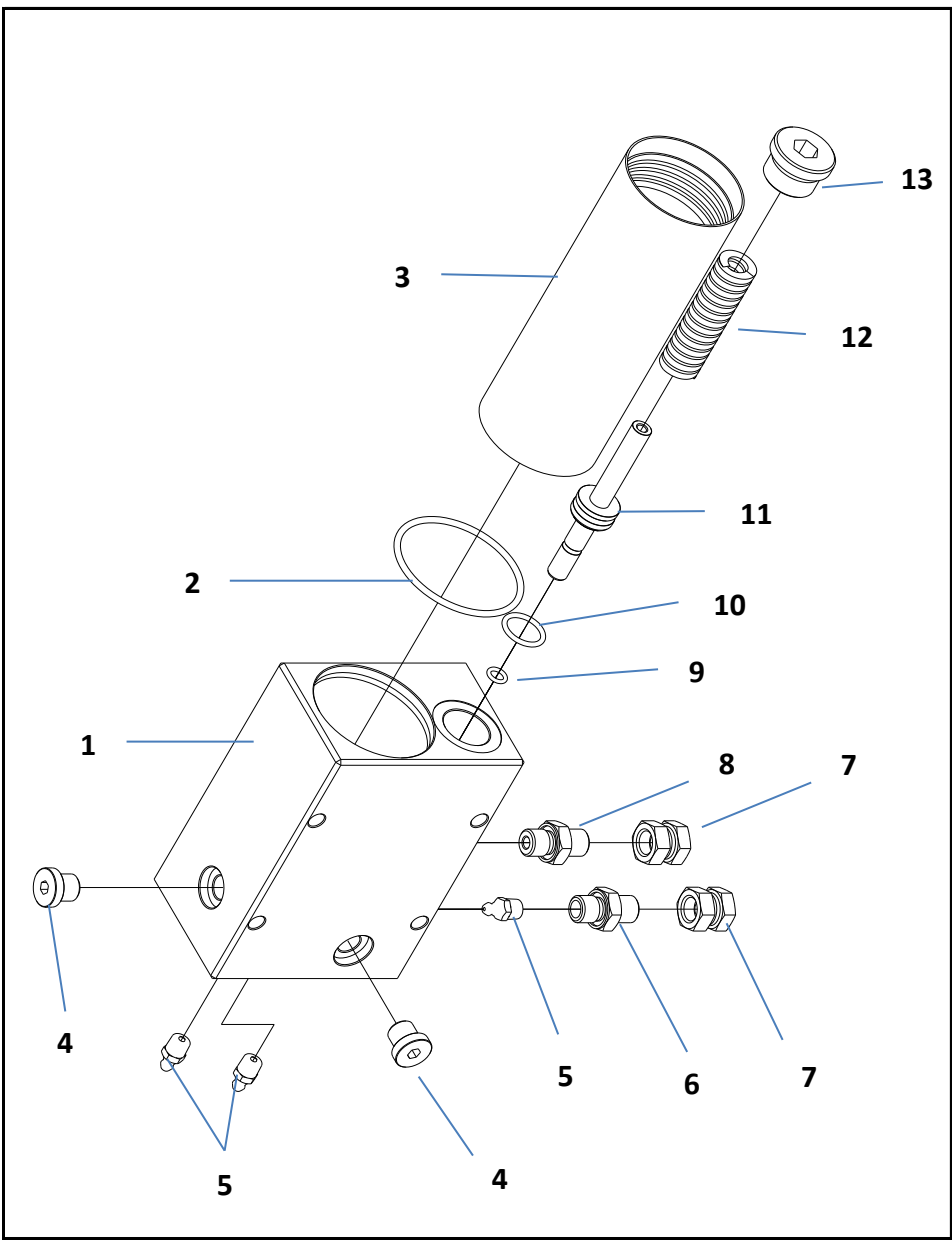
SPECIFICATION OF GREASE PUMP N1-400

EXTERIOR SIZE		155.5x141x70 mm
WEIGHT		2.6 kgf
CARTRIDGE CAPACITY		Max. 450 ml
OPERATING PRESSURE		70 bar ~ 210 bar
OPERATING TEMPERATURE		-20°C ~ 60°C
GREASE OUTPUT	PRESSURE	30 bar ~ 135 bar
	QUANTITY	Max. 0.9 ml
	PORT	PF1/4



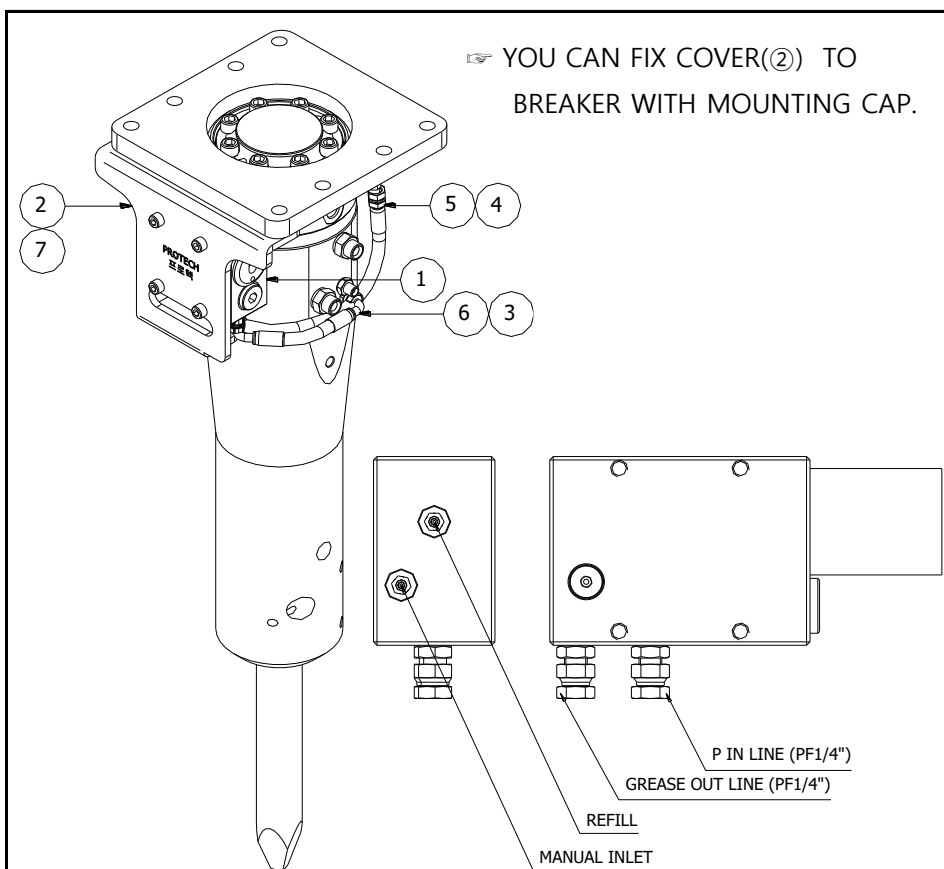
PARTS LIST OF GREASE PUMP N1-400

PARTS LIST OF GREASE PUMP N1-400



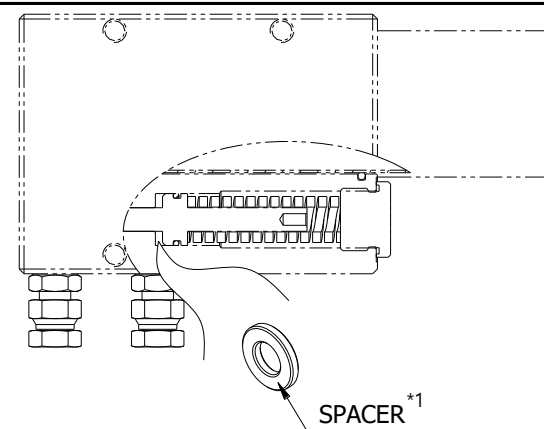
NO.	PART NO.	PART NAME	NOTE
1	PTP5 011	BODY	
2	2851209	O-RING	
3	PTP5 030	CARTRIDGE	
4	PTP3 010	PLUG	
5	PTP3 009	GREASE NIPPLE	
6	PTP3 019	H/ADAPTER-01	
7	PTP3 044	UNION CAP	
8	PTP5 013	BODY, CHECK	
9	2851005	O-RING	
10	2851017	O-RING	
11	PTP5 012	PISTON	
12	PTP3 011	SPRING	
13	PTP3 016	PLUG	
14			
15			

INSTALLATION OF GREASE PUMP N1-400



7	SOCKET BOLT	PTP3 022	4	M10xP1.5xL25
6	OIL HOSE	PTP5 022	1	D4xP200xL400, 905/5
5	OIL HOSE	PTP5 021	1	D4xP200xL250, 905x905
4	H/ADAPTER-90	PTP3 024	1	PT1/4xPF1/4(H)
3	H/ADAPTER-01	PTP3 019	1	PF1/4"
2	COVER	PTP5 020	1	t9/UB30P
1	AUTO GREASE PUMP	PTP5 001.R2	1	N-1

ADJUSTMENT OF GREASE PUMP N1-400



Spacer Thickness	-	~	3mm	~	6mm
Discharg Volume ^{*2}	0.9ml	~	0.7ml	~	0.5ml

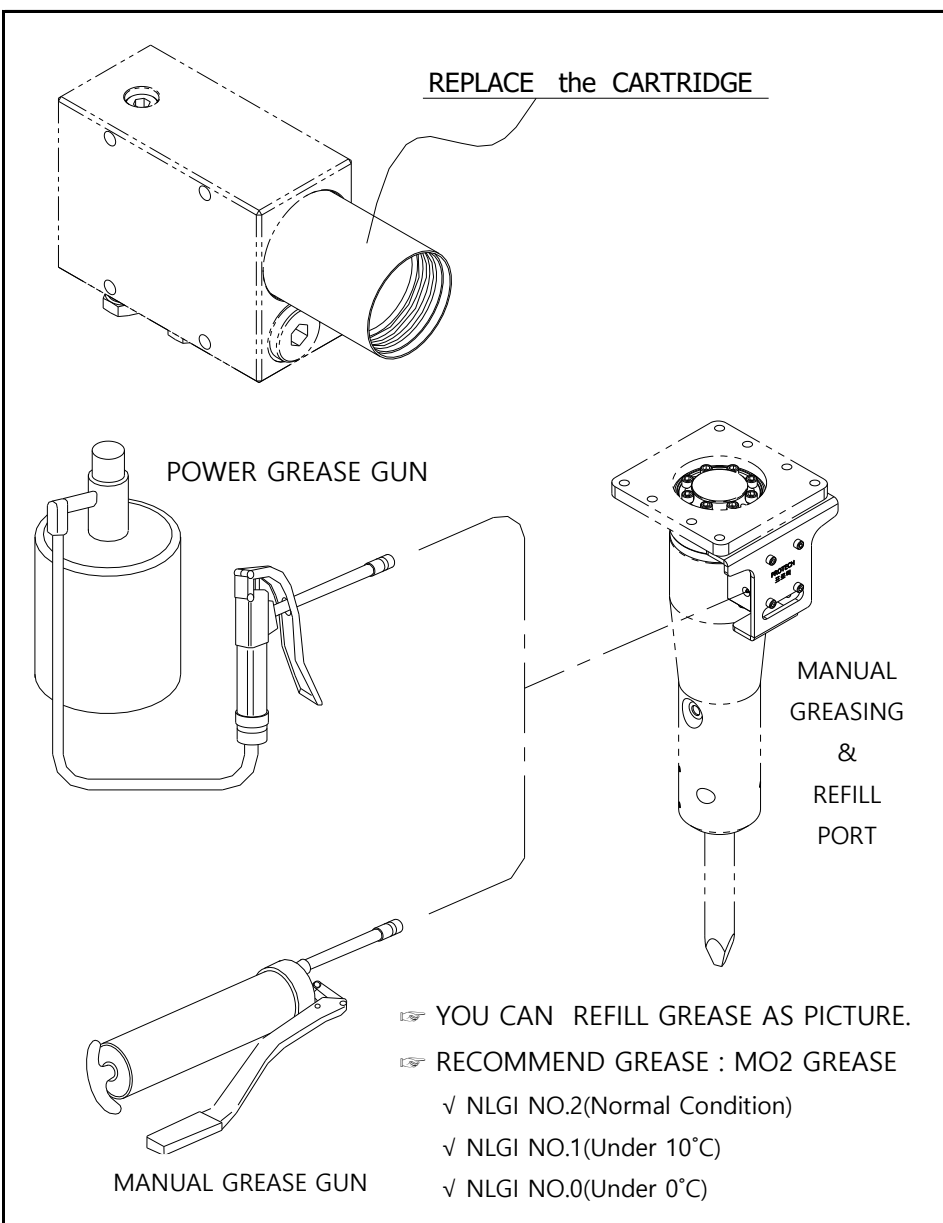
YOU CAN CHANGE DISCHARGING VOLUME OR PRESSURE BY INSERT OR REPLACE SPACER, ENCLOSED.

AFTER ADJUSTING THE DISCHARGE VOLUME OR PRESSURE, BE SURE TO TIGHTEN PLUG TIGHTLY TO PREVENT LOOSENING IT(Loosening Plug can cause damage to SEAL).

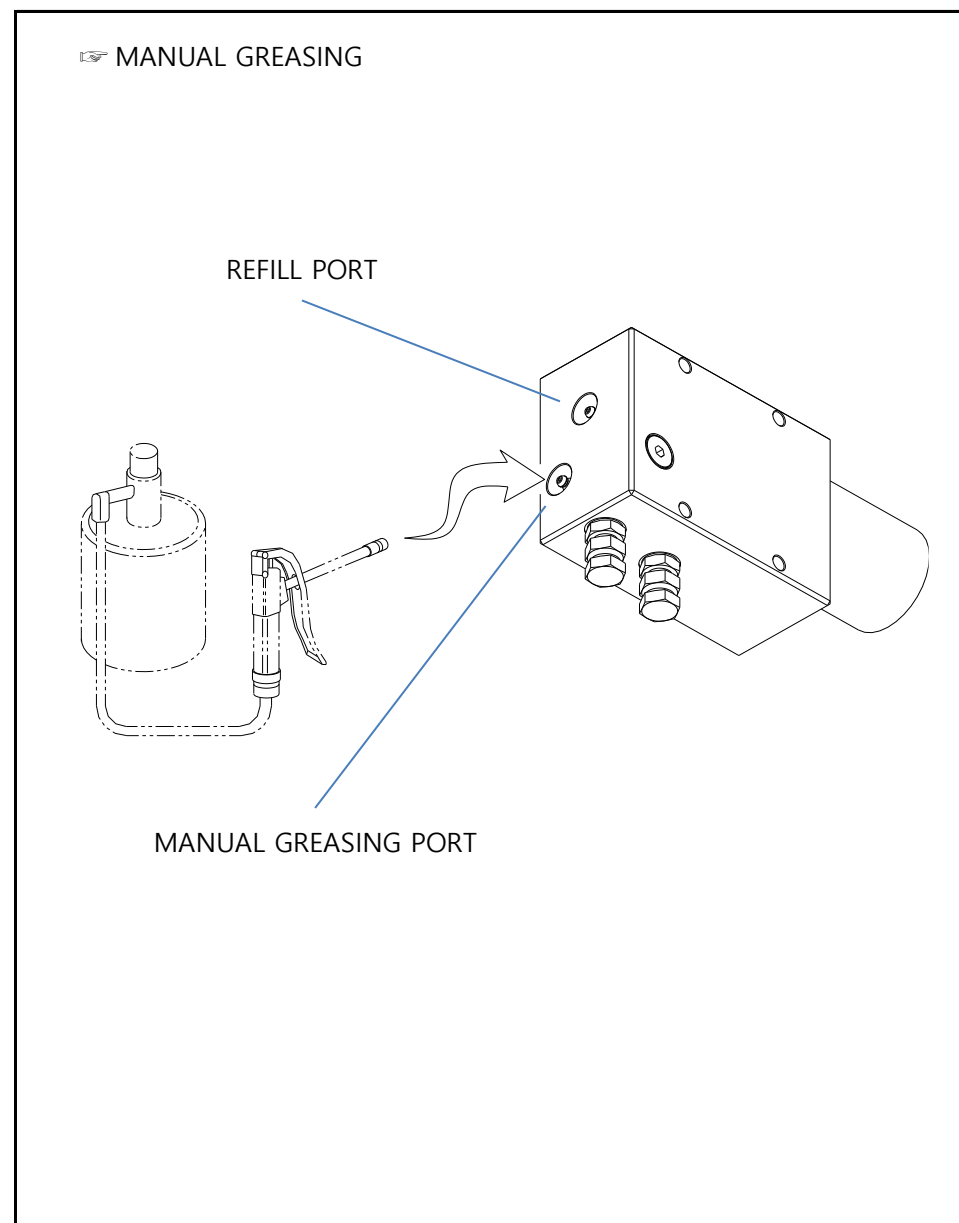
* Note 1. At the factory assembles without a spacer and ships with the maximum discharge volume.

* Note 2. The presented values are theoretical and may differ slightly from the actual values depending on the conditions of grease.

REFILL & MANUAL GREASING N1-400

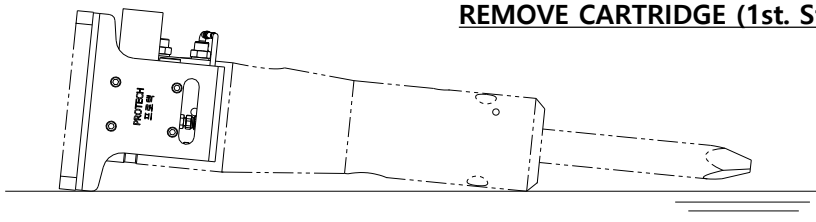


REFILL & MANUAL GREASING N1-400



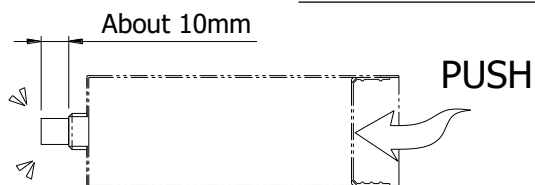
REPLACE CARTRIDGE N1-400

REMOVE CARTRIDGE (1st. Step)



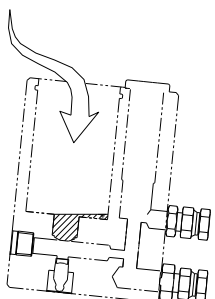
☞ Lay the breaker safely, Remove the cartridge Cage.

PREPARE A NEW CARTRIDGE (2nd. Step)



☞ Before assembling the new cartridge, press the cartridge piston and assemble with the grease protruding about 10 mm.

WORKING OIL

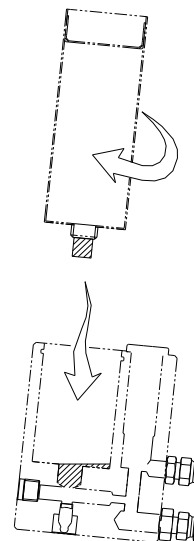


AIR VENTING(3rd. Step)

☞ If the grease is completely exhausted from the inside of the pump, pour the working oil enough to be completely immersed the thread and completely remove the air layer from the pump.

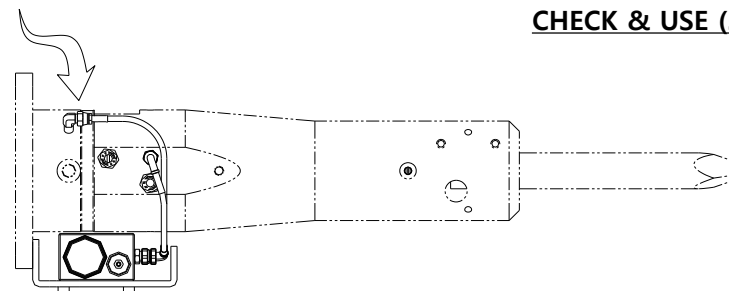
REPLACE CARTRIDGE N1-400

ASSEMBLE CARTRIDGE (4th. Step)



☞ Insert the cartridge and tighten it enough

CHECK & USE (5th. Step)



☞ Loosen the grease supply hose fitting and check whether it is operating normally (grease discharge).
☞ If the grease does not discharge even during operation 5 ~ 6 times, reassemble from step 1 again.