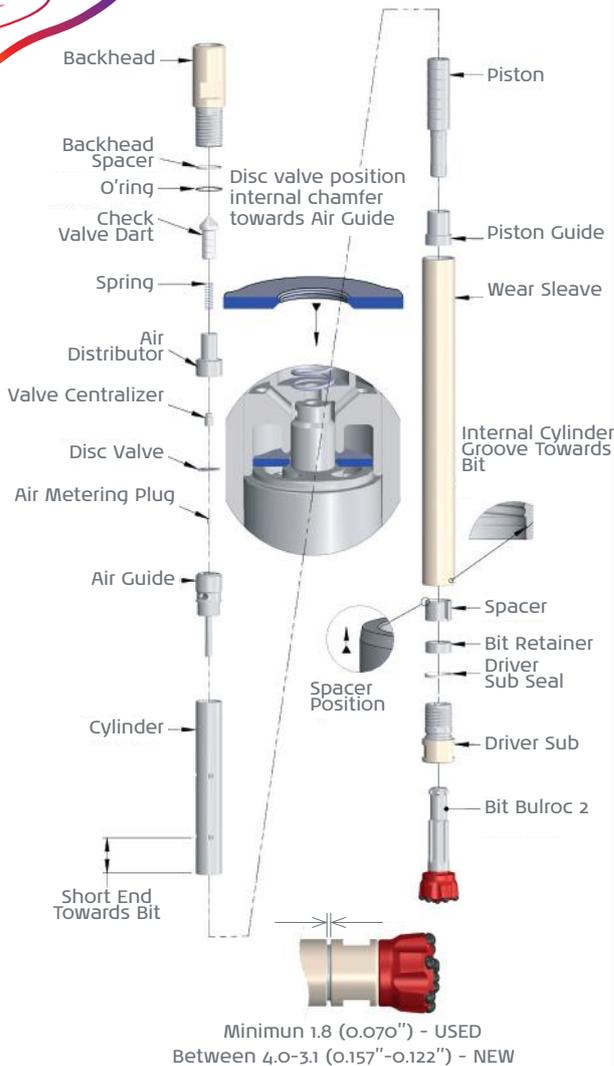


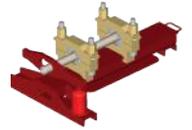
### EXPLODED VIEW



### DISASSEMBLY

#### WARNING!

- Use hammer disassembly bench.
- Do not apply heat to any component
- Use wrenches in good condition
- Apply wrench over bit steel
- Apply clamps on recommended areas



#### DISASSEMBLY SEQUENCE

- 1 Disassemble the hammer at the bit side
- 2 Extract the driver sub, bit retainer and bit
- 3 Rotate and loosen the hammer at the backhead side
- 4 Remove the backhead and remove its O'ring
- 5 Remove the check valve, spring, air distributor, valve centralizer, disc valve, air regulator, air guide, cylinder and piston
- 6 Remove the piston guide



A Bit Side		B Backhead Side		C Clamp Location	
inch	mm	inch	mm	inch	mm
4.7	120	8.0	204	2.0 - 3.9	50-100

### ASSEMBLY

#### WARNING!

- 1 All components must be in good condition and well lubricated.
- 2 Follow assembly sequence shown in "Explosive view".
- 3 If you want to increase the consumption you can extract the air regulator
- 4 The internal groove in the wear sleeve indicates the driver sub side (see Explosive View).
- 5 Insert spacer if it is removed (see Explosive View), there is a device to facilitate assembly, Code 0304020250000, the spacer should be at 82mm (3.228") from the end.
- 6 Insert piston into the piston guide, mount the cylinder with short end towards piston guide.
- 7 Assemble air guide in the cylinder, then air regulator, disc valve with internal chamfer towards air guide.
- 8 Insert the sub assembly into the wear sleeve from the piston guide side, entering from the backhead side.
- 9 Insert spring on distributor, then check valve.
- 10 Insert O'ring on Backhead, lubricate the thread and insert on the wear sleeve, screwing up.
- 11 Mount driver sub seal in the driver sub, driver sub in the shank, retainer on the shank, lubricate thread and then screw up the sub-assembly bit-driver sub until it fits with the spacer.
- 12 Verify that the space between the driver sub and the wear sleeve is between 1.8 mm (0.070") and 4.0 mm (0.150") (see figure "Gap").
- 13 In case that the gap is less than 1.8mm (0.070"), install spacer between the backhead and the air distributor; after is installed check measure of aprox. 4.0 mm (0.157").
- 14 Apply recommended pre-torque to backhead and bit side.

#### PRE-TORQUE

ft-lb,	kg,-m
1442 - 1802	200 - 250

### LUBRICATION

#### OIL GRADE SELECTION (cst)

Work Pressure (psig)	TEMPERATURE		ISO GRADE
	Environment Air	Discharge Air	Dry Drilling
100 - 150	-20°C to 30°C	< 100°C	50 to 100
	over 30°C	> 100°C	100 to 1500
150 - 350	-20°C to 30°C	< 100°C	150 to 220
	over 30°C	> 100°C	220 to 320

#### OIL CONSUMPTION L/h (q t/h)

Drilling	WORK PRESSURE (psig)			
	150	200	250	300
Dry	0.5	0.7	0.9	20.7
With Water	0.8	1.1	1.4	1.8

### MAINTENANCE

#### STANDARD MAINTENANCE PROGRAM

OPERATION CONDITIONS	INSPECT EVERY:
• Stable, non abrasive ground • No water injection	200 (operating hours)
• Stable and abrasive ground • With or without water injection	100 (operating hours)
• Unstable and abrasive ground • With or without water injection	50 (operating hours)



#### COMPONENT INSPECTION AND REPAIR.

All components must be washed thoroughly with appropriate solvent, eliminating all accumulated dirt. Use sand paper to smooth steel surfaces and friction marks, leaving all contact, sliding and threaded surfaces in good smooth condition.

### DIMENSIONS LIMITS mm (in)

COMPONENT	SECTION		
3 Air Guide	ø Flute	c	0,28 (0,011")
4 Piston	ø Int	d	
	ø Ext	g	0,23 (0,009")
6 Piston Guide	ø Int.	m	
4 Piston	ø Ext.	e	0,23 (0,009")
	ø Int.	b	
1 Backhead	ø Exterior	a	56 (2,205")
5 Cylinder	ø Exterior	h	56 (2,205")
7 Driver sub	ø Exterior	j	56 (2,205")
	Exterior Length	k	39,5 (1,555")
	Spline width	l	3,5 (0,138")

