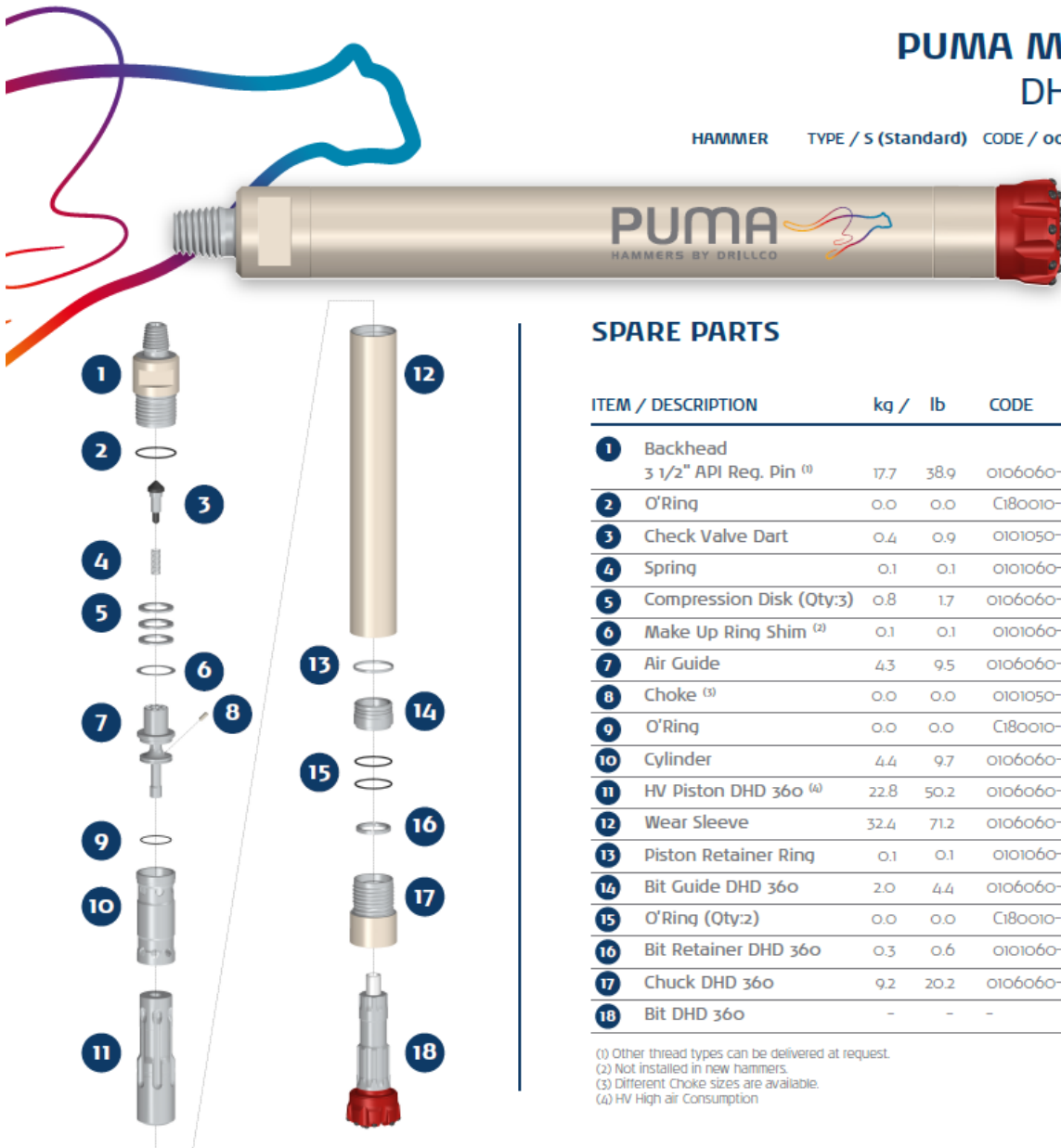


PUMA M6.2 HV DHD 360

HAMMER TYPE / S (Standard) CODE / 0006060-000035



SPARE PARTS

ITEM / DESCRIPTION	kg / lb		CODE
1 Backhead 3 1/2" API Reg. Pin ⁽¹⁾	17.7	38.9	0106060-010008
2 O'Ring	0.0	0.0	C180010-002349
3 Check Valve Dart	0.4	0.9	0101050-030000
4 Spring	0.1	0.1	0101060-040000
5 Compression Disk (Qty:3)	0.8	1.7	0106060-060003
6 Make Up Ring Shim ⁽²⁾	0.1	0.1	0101060-180000
7 Air Guide	4.3	9.5	0106060-080002
8 Choke ⁽³⁾	0.0	0.0	0101050-070000
9 O'Ring	0.0	0.0	C180010-002238
10 Cylinder	4.4	9.7	0106060-100003
11 HV Piston DHD 360 ⁽⁴⁾	22.8	50.2	0106060-120028
12 Wear Sleeve	32.4	71.2	0106060-110005
13 Piston Retainer Ring	0.1	0.1	0101060-130001
14 Bit Guide DHD 360	2.0	4.4	0106060-140004
15 O'Ring (Qty:2)	0.0	0.0	C180010-002346
16 Bit Retainer DHD 360	0.3	0.6	0101060-150002
17 Chuck DHD 360	9.2	20.2	0106060-170017
18 Bit DHD 360	-	-	-

(1) Other thread types can be delivered at request.

(2) Not installed in new hammers.

(3) Different Choke sizes are available.

(4) HV High air Consumption

GENERAL DESCRIPTION

NET WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						CLOSED BIT		EXTENDED BIT	
kg	lb	mm	in	mm	in	mm	in	mm	in
95	209	141.5	5.57	1151	45.3	1256	49.4	1296	51.0

AIR CONSUMPTION												
PRESSURE	psig	150	200	250	300	350	barg	10.3	13.8	17.2	20.7	24.1
VOLUME	SCFM	340	558	722	886	1050	m³/min	9.7	15.8	20.5	25.2	29.8

GHB Ground Engineering AG
Schulstrasse 11
CH-6443 Morschach

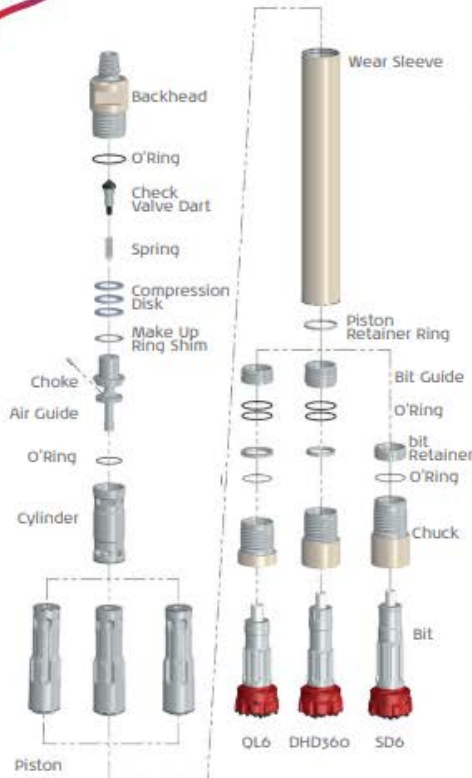
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PUMA M6.2 MAINTENANCE SHEET

QL6, SD6, DHD-360

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 on the bit side.
- 2 Extract the chuck, Bit retainer, Bit and Bit guide.
- 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 and Disc springs.
- 6 Remove the Cylinder and Air guide.
- 7 Remove the Piston.
- 8 Remove the Wear sleeve.
- 9 Remove the Top Ring.



A Bit Side		B Back Head Side		C Clamp Location	
inch	mm	inch	mm	inch	mm
0.6	170	12.5	320	2.0 - 3.9	50-100

ASSEMBLY

WARNING!

- 1 All components must be in good operating conditions.
- 2 Follow assembly sequence as per drawing.
- 3 Lubricate each component, before installation.
- 4 Secure spring discs position.
- 5 Check gap between Wear Sleeve and Backhead ("S").
- 6 Apply recommended Pre-torque.

Discs springs Position



PRE-TORQUE		Gap "S"	
ft-lb _t	kg-m	inch	mm
4,700 - 5,300	650 - 730	0.02 - 0.06	0,5 - 1,5

$$T = \text{Force} \times \text{Arm}$$



LUBRICATION

OIL GRADE SELECTION (CST)

Work Pressure (Psi)	TEMPERATURE		ISO GRADE	
	Environment Air	Discharge Air	Dry	Drilling with water
100 - 150	-20°C to 30°C	< 100°C	50 to 100	100 to 150
150 - 350	Over 30°C	> 100°C	100 to 150	150 to 220
150 - 350	-20°F to 30°C	< 100°C	150 to 220	220 to 320
150 - 350	Over 30°C	> 100°C	220 to 320	320

OIL CONSUMPTION (l/h)

Drilling	WORK PRESSURE (psig)				
	150	200	250	300	350
Dry	0,36	0,51	0,67	0,80	1,0
With Water	0,54	0,76	1,0	1,22	1,46

MAINTENANCE

STANDARD MAINTENANCE PROGRAM

OPERATION CONDITIONS	INSPECT EVERY:
Stable, non abrasive ground	200 (operating hours)
No water injection	200 (operating hours)
Stable and abrasive ground	100 (operating hours)
With or without water injection	100 (operating hours)
Unstable and abrasive ground	50 (operating hours)
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	DIMENSION	DHD360	SD6	QL6
1 Backhead	ø Exterior a	132,00 (5.197")	132,00 (5.197")	132,00 (5.197")
2 Air Guide	ø Flute b	35,78 (1.409")	35,78 (1.409")	35,78 (1.409")
3 Cylinder	ø Interior c	98,12 (3.863")	98,12 (3.863")	98,12 (3.863")
	Shoulder Width c2	15,00 (0.591")	15,00 (0.591")	15,00 (0.591")
4 Wear Sleeve	ø Exterior d	132,00 (5.197")	132,00 (5.197")	132,00 (5.197")
	ø Inversion (*) d	137,00 (5.394")	137,00 (5.394")	137,00 (5.394")
	ø Interior e	115,12 (4.532")	115,12 (4.532")	115,12 (4.532")
5 Piston	ø Ext. Body f	114,77 (4.519")	114,77 (4.519")	114,77 (4.519")
	ø Ext. Tail g	97,77 (3.849")	97,77 (3.849")	97,77 (3.849")
	ø Int. Body h	38,75 (1.526")	37,43 (1.474")	46,03 (1.830")
	ø Int. Tail i	36,30 (1.429")	36,30 (1.429")	36,30 (1.429")
6 Chuck	ø Exterior j	132,00 (5.197")	132,00 (5.197")	132,00 (5.197")
	External Length k	90,0 (3.543")	107,0 (4.213")	36,0 (1.417")
	Spline Width l	5,5 (0.217")	4,0 (0.157")	3,5 (0.138")
7 Bit Guide	ø Interior m	87,41 (3.441")	87,41 (3.441")	92,40 (3.638")



(*) This dimension is to allowable limiting diameter in which the wear sleeve can be reversed prolonging the operational life-time of the part

Check : 05/2018