



Down The Hole Hammer & Bit 8"



The Characteristics Of High Air Pressure DTH Hammer -with foot valve

It is a kind of valveless high air pressure DTH Hammer with foot valve

It has the following characteristics:

- ◆ Valveless air distribution. More reliable.
- ◆ Simple design of the piston, long life.
- ◆ More efficient energy transfer, faster drilling speed,
lower air consumption and lower oil consumption.
- ◆ Fewer internal parts, simple structure, longer life,
Less failure and easier to maintain because all the parts are heat treated.
- ◆ Easy to disassemble because the top sub, the drive chuck and the
external cylinder are connected by multistep thread .

Explanation of High Air Pressure DTH Hammer -With Foot Valve Code

Example One:MD55

M—Maxdrill (Our company name)

D—DHD Bit Shank

5—5"hammer

5—The Fifth Generation Hammer

Example Two:MQL4

M— Maxdrill (Our company name)

QL4—QL40 Bit Shank

MD85 DTH HAMMER

High Air Pressure with foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	41.00	MD8501
2 "O" Ring of Top Sub	0.02	MD8502
3 Breakout Ring	0.20	MD8503
4 Check Valve	1.50	MD8504
5 Spring	0.50	MD8505
6 Compression Buffer	0.50	MD8506
7 Air Distributor	13.00	MD8507
8 Internal Cylinder	9.00	MD8508
9 Piston	42.00	MD8509
10 External Cylinder	62.00	MD8510
11 "O" Ring of Stop Ring	0.02	MD8511
12 Stop Ring	1.20	MD8512
13 Drive Chuck	18.00	MD8513
14 Drill Bit		MD8514

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1492mm	189.00Kg	ø180mm	Cop84 DHD380	ø195-ø254	API 4 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed		Air Consumption	
				145-350PSI	
1.0-2.5Mpa	20HZ	15-25r/min		836-1150CFM	

Detailed air consumption can be seen in appendix, P73

MSD8 DTH HAMMER

High Air Pressure with foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	41.00	MSD801
2 "O" Ring of Top Sub	0.02	MSD802
3 Breakout Ring	0.20	MSD803
4 Check Valve	1.50	MSD804
5 Spring	0.10	MSD805
6 Compression Buffer	0.42	MSD806
7 Air Distributor	12.50	MSD807
8 Internal Cylinder	8.60	MSD808
9 Piston	42.00	MSD809
10 External Cylinder	65.00	MSD810
11 "O" Ring of Stop Ring	0.05	MSD811
12 Stop Ring	1.20	MSD812
13 Guided Sleeve	3.40	MSD813
14 Drive Chuck	16.00	MSD814
15 Drill Bit		MSD815

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1463mm	192.00Kg	ø180mm	SD8	ø195-ø254	API 4 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed			Air Consumption
1.0-2.5Mpa	20HZ	15-25r/min			145-350PSI
				836-1150CFM	

Detailed air consumption can be seen in appendix, P73

MQL8 DTH HAMMER

High Air Pressure with foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	41.00	MQL801
2 "O" Ring of Top Sub	0.02	MQL802
3 Breakout Ring	0.30	MQL803
4 Check Valve	1.50	MQL804
5 Spring	0.10	MQL805
6 Compression Buffer	0.42	MQL806
7 Air Distributor	13.00	MQL807
8 Internal Cylinder	8.60	MQL808
9 Piston	41.00	MQL809
10 External Cylinder	60.00	MQL810
11 Guided Sleeve	2.20	MQL811
12 "O" Ring of Stop Ring	0.02	MQL812
13 Stop Ring	1.20	MQL813
14 Breakout Ring	0.30	MQL814
15 Drive Chuck	12.00	MQL815
16 Drill Bit		MQL816

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1465mm	182.00Kg	ø185mm	QL80	ø195-ø254	API 4 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed		Air Consumption	
1.0-2.5Mpa	20HZ	15-25r/min		145-350PSI	
				836-1150CFM	

Detailed air consumption can be seen in appendix, P73

The Characteristics Of High Air Pressure

-without foot valve DTH Hammers

It is a kind of high air pressure DTH Hammer without foot valve,our newest design.It is also one of the most advanced DTH Hammers in the word.

It has the following characteristics:

- ◆ Out of the trouble of foot valve fracture and expansion and contraction.
- ◆ Lower energy consumption and higher impact frequency.
- ◆ The drilling speed is 15%-30% higher than the same type with the valve
- ◆ Simple structure ,reliable parts, long life , easy and cheap maintenance.
- ◆ Lower air and oil consumption. The oil consumption is about 10% lower than the one with foot valve.

Explanation of high Air Pressure

-without foot valve DTH Hammer Code

Example One:MD55A

M—Kemaico (Our company name)

D—DHD Bit Shank

5—5"hammer

5—The Fifth Generation Hammer

A—Bit without foot valve

Example Two:MQL4A

M— Kemaico (Our company name)

QL4—QL40 Bit Shank

A—Bit without foot valve

S—Smaller size than general DTH Hammer

MD85A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	36.00	MD85A01
2 "O" Ring of Top Sub	0.015	MD85A02
3 Breakout Ring	0.30	MD85A03
4 Check Valve	2.00	MD85A04
5 Spring	0.10	MD85A05
6 Air Distributor	6.00	MD85A06
7 Internal Cylinder	6.50	MD85A07
8 Piston	42.50	MD85A08
9 External Cylinder	64.00	MD85A09
10 Guided Sleeve	6.00	MD85A10
11 "O" Ring of Stop Ring	0.10	MD85A11
12 Stop Ring	2.00	MD85A12
13 Breakout Ring	0.30	MD85A13
14 Drive Chuck	20.00	MD85A14
15 Drill Bit		MD85A15

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1359mm	185.00Kg	ø185mm	Cop84 DHD380	ø195-ø254	API 4 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed	Air Consumption		
			145-350PSI		
1.0-2.5Mpa	20HZ	15-25r/min	836-1150CFM		

Detailed air consumption can be seen in appendix, P73

MSD8A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	34.00	MSD8A01
2 "O" Ring of Top Sub	0.015	MSD8A02
3 Breakout Ring	0.30	MSD8A03
4 Check Valve	1.20	MSD8A04
5 Spring	0.10	MSD8A05
6 Air Distributor	6.00	MSD8A06
7 Internal Cylinder	6.50	MSD8A07
8 Piston	42.50	MSD8A08
9 External Cylinder	59.00	MSD8A09
10 Guided Sleeve	6.00	MSD8A10
11 "O" Ring of Stop Ring	0.01	MSD8A11
12 Stop Ring	1.20	MSD8A12
13 Breakout Ring	0.30	MSD8A13
14 Drive Chuck	16.00	MSD8A14
15 Drill Bit		MSD8A15

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1330mm	174.00Kg	ø180mm	SD8	ø195-ø254	API 4 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed	Air Consumption		
			145-350PSI		
1.0-2.5Mpa	20HZ	15-25r/min	836-1150CFM		

Detailed air consumption can be seen in appendix, P73

MQL8A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	34.00	MQL8A01
2 "O" Ring of Top Sub	0.015	MQL8A02
3 Breakout Ring	0.30	MQL8A03
4 Check Valve	1.20	MQL8A04
5 Spring	0.10	MQL8A05
6 Air Distributor	6.00	MQL8A06
7 Internal Cylinder	6.50	MQL8A07
8 Piston	43.00	MQL8A08
9 External Cylinder	60.00	MQL8A09
10 Guided Sleeve	7.00	MQL8A10
11 "O" Ring of Stop Ring	0.01	MQL8A11
12 Stop Ring	1.40	MQL8A12
13 Breakout Ring	0.30	MQL8A13
14 Drive Chuck	14.00	MQL8A14
15 Drill Bit		MQL8A15

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1330mm	174.00Kg	ø185mm	QL80	ø195-ø254	API 4 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed	Air Consumption		
			145-350PSI		
1.0-2.5Mpa	20HZ	15-25r/min	836-1150CFM		

Detailed air consumption can be seen in appendix, P73

MQL95A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



	Item Description	Weight (Kg)	Part Number
1	Top Sub	38.00	MQL95A01
2	"O" Ring of Top Sub	0.010	MQL95A02
3	Breakout Ring	0.40	MQL95A03
4	Check Valve	1.20	MQL95A04
5	Spring	0.10	MQL95A05
6	Air Distributor	7.00	MQL95A06
7	Internal Cylinder	7.50	MQL95A07
8	Piston	50.00	MQL95A08
9	External Cylinder	75.00	MQL95A09
10	Guided Sleeve	12.00	MQL95A10
11	"O" Ring of Stop Ring	0.01	MQL95A11
12	Stop Ring	2.50	MQL95A12
13	Breakout Ring	0.40	MQL95A13
14	Drive Chuck	21.00	MQL95A14
15	Drill Bit		MQL95A15

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1340mm	215.00Kg	ø203mm	QL80	ø216-ø254	API 4 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed	Air Consumption		
			145-350PSI		
1.0-2.5Mpa	20HZ	15-25r/min	836-1150CFM		

Detailed air consumption can be seen in appendix, P73

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