

ROCKBLASTER



RB17160

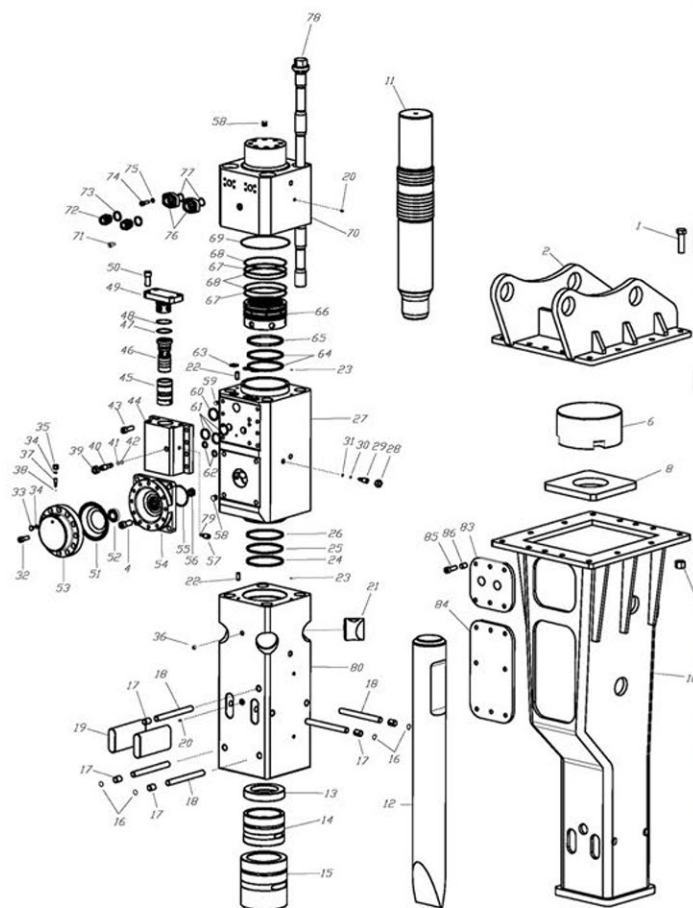
Technical Specification

Operating weight	lbs	6.000
Tool lenght	inch	53
Tool diameter	inch	6,3
Relief pressure	psi	3500
Oil flow	GPM	60-70
Frequency	Bpm	350-700
Work pressure	psi	2500
Energy	ft/lbs	11.000
Carrier weight	lbs	50.000-110.000
In hose diameter	inch	1" 1/4
Out hose diameter	inch	1" 1/4
Max back pressure	psi	400

TORQUE Kg/m

Tie rod	Accumulator	Accumulator cover	Valve body	Valve cover	Swivels	Top bracket	Accumulator	Backhead
360	75	32	41	80	20	45	780	88

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PARTS LIST RB17160

ITEM	COD.	DESCRIPTION	QUANTITY
1	C000154	Bracket bolt	14
2	F005091	Top bracket	1
6	P320036	Top absorber	1
8	P450038	Bottom absorber	1
9	C000155	Bracket bolt nut	14
10	C000105	Housing	1
11	P450010	Piston	1
12	P450018	Chisel tool	1
13	P450009	Spacer	1
14	P450008	Inner busing	1
15	P450007	Bushing tool guide	1
16	C000186	Seger for hole Ø30	4
17	C000348	Elastic pin stop bushing Ø30x40	5
18	L000033	Rigid spin stop bushing	5
19	P450020	Retaining pin	2
20	C000009	Greaser	2
21	P450016	Tie rod nut	4
22	C000040	Coupling pin	2
23	C000045	Or greaser	2
24	C000184	Duster	1
25	C000183	Central seal oil	1
26	C000178	Top seal oil	1
27	F005002	Cylinder	1
28	L000010	Cylinder valve nut	1
29	L000009	Cylinder valve	1
30	C000014	Backup cylinder valve	1
31	C000015	Or cylinder valve	1
32	C000067	Accumulator closing bolt	12
33	C000562	Nitrogen cap	1
34	C000559	Or nitrogen cap	2
35	C000564	Nitrogen nut pin	1
36	C000753	Sub cap	1
37	C000561	Nipples	1
38	C000558	Or nitrogen pin	1
39	P320023	Distribution valve nut	1
40	P320022	Distribution valve	1
41	C000168	Backup distribution valve	1
42	C000173	Or distribution valve	1
43	C000132	Flange bolt distribution body	8
44	P450004	Distribution body	1
45	P450012	Distributor	1

ITEM	COD.	DESCRIPTION	QUANTITY
46	P450013	Distribution piston	1
47	C000179	Or cover distribution	1
48	C000176	Backup distribution cover	1
49	P450014	Distribution cover	1
50	C000133	Distribution cover bolt	4
51	C000145	Diaphragm	1
52	L000022	Diffuser	1
53	F004005	Top accumulator	1
54	F004006	Bottom accumulator	1
55	C000161	Seal accumulator	1
56	C000484	Diffuser nut	1
57	C000604	Distribution cover cap	1
58	C000006	Helicoil 1"	12
59	C000002	Helicoil M20	8
60	C000187	Or distribution body	1
61	C000120	Or distribution body	3
62	C000075	Or distribution body	2
63	C000189	Stirromatic cylinder	3
64	C000188	Steapseal	2
65	C000185	Quadrang	1
66	P450011	Seal bushing	1
67	C000180	Or external seal	2
68	C000177	Backup external seal	3
69	C000181	Or head	1
70	F005001	Back head	1
71	C000622	Nitrogen valve	1
72	C000583	Complete nitrogen valve	2
73	C000580	Bonded washing 1"-1/4	2
74	C000662	Flange bolt	8
75	C000756	Flange opened washing	8
76	C000219	Threaded flange 1"-1/4	2
77	C000755	Or flange	2
78	F005015	Tie Rod	4
79	C000605	Bonded washing 3/8"	1
80	F005003	Chuck housing	1
81	P450019	Tool cone	1
82	F005021	Seal kit	-
83		Top cover	1
84		Bottom cover	1
85		Cover bolt	14
86		Cover bushing	14

Heatherdell RB. Hammers Corp - USA

www.rockblasterhammers.com

BLOW ADJUSTER CONTROL METHODS

An adjuster which adjusts the number of blows is a standard device in our breaker.

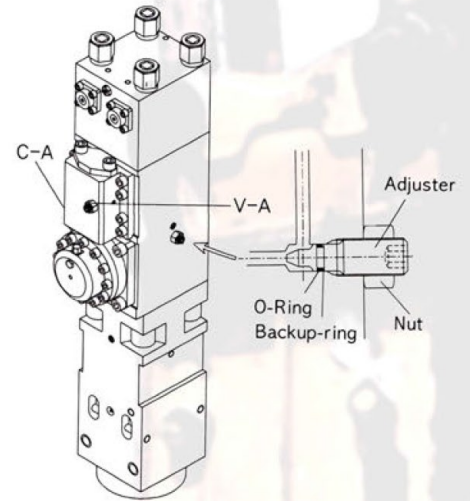
For the most effective breaking, change the number of blows depending on the working condition.

Basic function is that by changing piston stroke, number of blows can be adjusted, meanwhile keeping working pressure and flow rate of oils at the fixed.

To control the adjuster, rotate the adjusting screw by wrench after taking off the nut from the head of this screw.

Rotating the screw (C-A) deep down to the end makes the longest stroke and minimum number of blows, while rotating the screw upwards by two(2) turns makes the shortest stroke and gives number of blows at the maximum.

After adjusting at the required, please make sure put the nut back to place and tighten up.



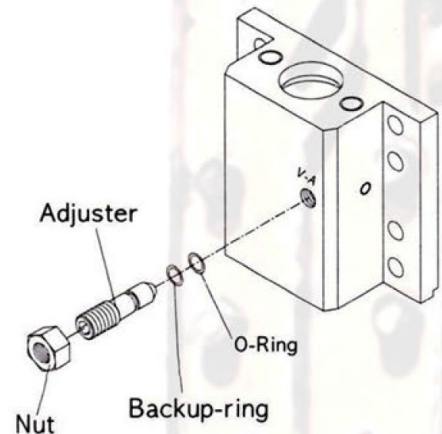
REGULATING OIL FLOW RATE IN VALVE ADJUSTER

HOW TO WORK

When the base machine supplies insufficient hydraulic oil to the breaker, this valve adjuster can obtain the rated working pressure by reducing number of blows, and IN THE REVERSE, when excessive oil flow from the base machine, the increasing number of blows by this valve adjuster can keep the rated working pressure "Hammer" breaker are being supplied with the adjuster preset at 4 to 5 turns anti-clockwise for standard specification RB7114L and 5 to 6 turns. Nut anti-clockwise for standard specification RB7115 and $4\frac{1}{2}$ to $5\frac{1}{2}$ turns for RB17160 & RB 60200 and RB80215.

HOW TO ADJUST VALVE ADJUSTER

When adjuster is tight close to completely block off the flow of oil, the notch of valve-adjuster shall be set to face the mark "V-A" as shown in the blow. Now take this position as "O" flow-rate and start adjusting flow-rate upwards by unscrewing this valve adjuster.



CHARGING OF N₂ GAS INTO ACCUMULATOR

- 1) Connect the charging hose to N₂ gas cylinder after screwing the bombe adapter onto adapter, nut and installing to the N₂ gas cylinder.
- 2) Connect the 3-way valve assembly to the charging hose after unscrewing the cap on the 3-way valve assembly.
- 3) Remove the cap from the accumulator and tighten the charging valve fully.
- 4) Check if O-ring are installed to the bushing. Remove the plug and screw the bushing.
- 5) Loosen the accumulator charging valve after checking if bushing is installed to the 3-way valve assembly.
- 6) Turn the handle of the N₂ gas cylinder counterclockwise slowly to charge gas.
- 7) Charge gas in accordance with the conversion table for charging N₂ gas pressure to accumulator.
- 8) Turn the handle of the N₂ gas cylinder clockwise to close the clock.
- 9) Close the accumulator charging valve.
- 10) Loosen the valve of the 3-way valve assembly to discharge the N₂ gas remaining in the charging hose.
- 11) Remove the charging hose, 3-way valve assembly and bushing and tighten the plug and cap.

CONVERSION TABLE FOR CHARGING NITROGEN GAS PRESSURE TO ACCUMULATOR

Accumulator gas pressure	Ambient Temperature(°C/°F)				
	0 / 32	10 / 50	20 / 68	30 / 86	40 / 104
kg/cm ²	56	58	60	62	64
psi	796	825	853	882	910

INSPECTION AND CHARGING OF N₂ GAS IN ACCUMULATOR

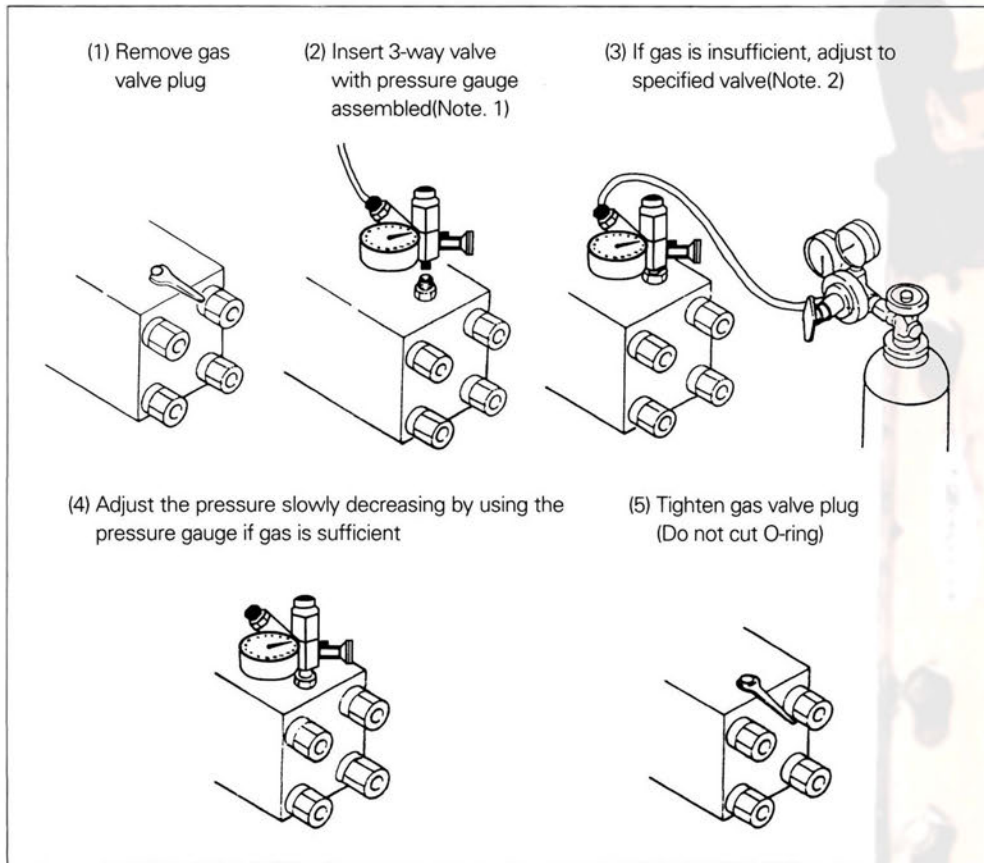
WARNING

- Use special care to handle and store the N₂ gas cylinder as it is a highly pressurised container.
- Use nitrogen gas only.
- Sere "conversion table for charging N₂ gas pressure to back accumulator"
- Standard accumulator gas pressure 55Kg/cm²/780psi, AT20°C68°F ambient temperature, do not over pressurise accumulator.

Caution for charging N₂ gas to the accumulator

- Be sure to use the 3-way valve assembly for charging the N₂ gas.
If charging gas leaks directly from the cylinder, the diaphragm may be broken off.
 - If charging for handling N₂ gas to only the accumulator, make sure that the accumulator body and cover are tightened fully
- 1) Make sure the cap and valve of the 3-way valve assembly are fully tightened.
 - 2) Remove the cap from the accumulator and tighten the charging valve fully.
 - 3) Check if O-ring are installed to the bushing. Remove the plug and screw in the bushing.
 - 4) Install the bushing to the 3-way valve assembly.
 - 5) Loosen the charging valve gradually. The charging pressure is indicated on the pressure gauge.
 - 6) Close the valve clockwise when the gas pressure is normal. When the gas pressure is higher, repeat loosening and tightening the valve of 3-way valve assembly. The pressure is lowered gradually.
 - 7) Loosen the valve of the 3-way valve assembly to discharge the N₂ gas in the 3-way valve assembly.
 - 8) Remove the 3-way valve assembly and tighten the plug and cap.

CHARGING OF N₂ GAS INTO BACK HEAD



NOTE

- 1) Insert 3-way valve after its handle is fully turned counterclockwise.
- 2) Turn the 3-way valve handle clockwise slowly. Stop turning it when the needle of the gauge starts to move. If it is turned clockwise too tightly, the valve may easily be damaged. Pay special attention to ensure that the nitrogen gas is not charged excessively.

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CONVERSION TABLE FOR CHARGING NITROGEN GAS PRESSURE TO BACK HEAD

(Depends on the temperature of the back head surface)

Back head gas pressure	Ambient Temperature(°C/°F)				
	0 / 32	10 / 50	20 / 68	30 / 86	40 / 104
kg/cm ²	5.9	6.2	6.5	6.9	7.2
psi	84	88	92	98	102

Back head gas pressure	Ambient Temperature(°C/°F)				
	0 / 32	10 / 50	20 / 68	30 / 86	40 / 104
kg/cm ²	15.3	15.9	16.5	17.0	17.6
psi	217	226	235	242	250

