



- 1. Elbow DR3 (4)
- 2. Check valve assembly (4)
- 2A. Cast valve body, DR1
- 2B. O-ring (2)
- 2C. Check valve seat
- 2D.  $\frac{7}{8}$  -9 nut
- 2E. Spacer sleeve  $\frac{7}{8}$  i.d. x  $1\frac{1}{2}$  o.d. x  $\frac{1}{2}$  thick
- 2F. Check ball &  $\frac{7}{8}$ -9 X 7" bolt welded top & bott.
- 2G. Spring
- 3. Main hydraulic valve
- 3A. Mounting bolt -  $\frac{1}{2}$  x  $4\frac{1}{2}$  Allen w/hi collar lock washer (6)
- 4. Subplate and relief (2500 psi)
- 5. Switching valve
- 5A. Switching valve subplate
- 5B.  $\frac{1}{4}$  x  $1\frac{1}{2}$  Allen screw (2)
- 5C. #10-24 x  $1\frac{1}{4}$  Allen Screw (4)
- 6. Cast hydraulic cylinder DR5
- 7. Cast pressure tee DR1 (2)
- 8. Cover plate (2)
- 8A. O-ring (4)
- 9. Mud seal bolt  $1\frac{1}{2}$ -12 x 3 (2)
- 10. Mud seal retainer plate (2)
- 11. Mud seal (2)
- 12. Mud seal piston (2)
- 13. Tie rod -  $\frac{3}{8}$ -11 NC x 20 (16)
- 14. Nut  $\frac{3}{8}$ -11 (32)
- 15. Material chamber (2)
- 16. Shifting rod Nylontron bearing (2)
- 16A. Retaining clip for Nylontron bearing (2)
- 17. Shifting rod "E" clip (2)
- 18. Shifting rod
- 19. Shifting valve control cam
- 19A. Roll pin for cam -  $\frac{3}{16}$  x  $1\frac{1}{4}$
- 20. Hydraulic cylinder rod (male & female)
- 21. Hydraulic cylinder gland (2)
- 22. Hydraulic piston
- 23. Hydraulic cylinder stop tube (2)
- 24. Cover plate bolt -  $\frac{1}{2}$ -13 NC x  $1\frac{1}{2}$  (16) for nuts
- 24A. Cover plate bolt -  $\frac{1}{2}$ -13 NC x 1 (8) for threaded holes
- 25. Tee stud -  $\frac{7}{8}$ -14 NF x 4 stud & nut (24)
- 26. Hydraulic piston O-ring

# DeepRock Manufacturing

Rupe Pump  
Exploded assembly view

UNLESS OTHERWISE NOTED:	DATE	BY	CHKD.	APPD.	RELEASED
FRACT. DIM. MACHINED $\pm 1/64$	11/14/01				
SH. SHEAR, WELD $\pm 1/16$					
CHAMFER $\pm .02$					
DECIMAL MACHINED $\pm .005$					

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SCALE	REF. DIM.	REF. VIN #	USED ON	MODEL
n/a	n/a	n/a	ASSEMBLY	XREF

TITLE: RUPE PUMP ASSEMBLY XREF  
C:\ACAD\RUPE\PUMP ASSEMBLY EXPLODED XREF.DWG

## ORIGINAL

DATE	BY	CHKD.	APPD.	RELEASED
11/14/01				

CHANGE

C SHEET 1 OF 1