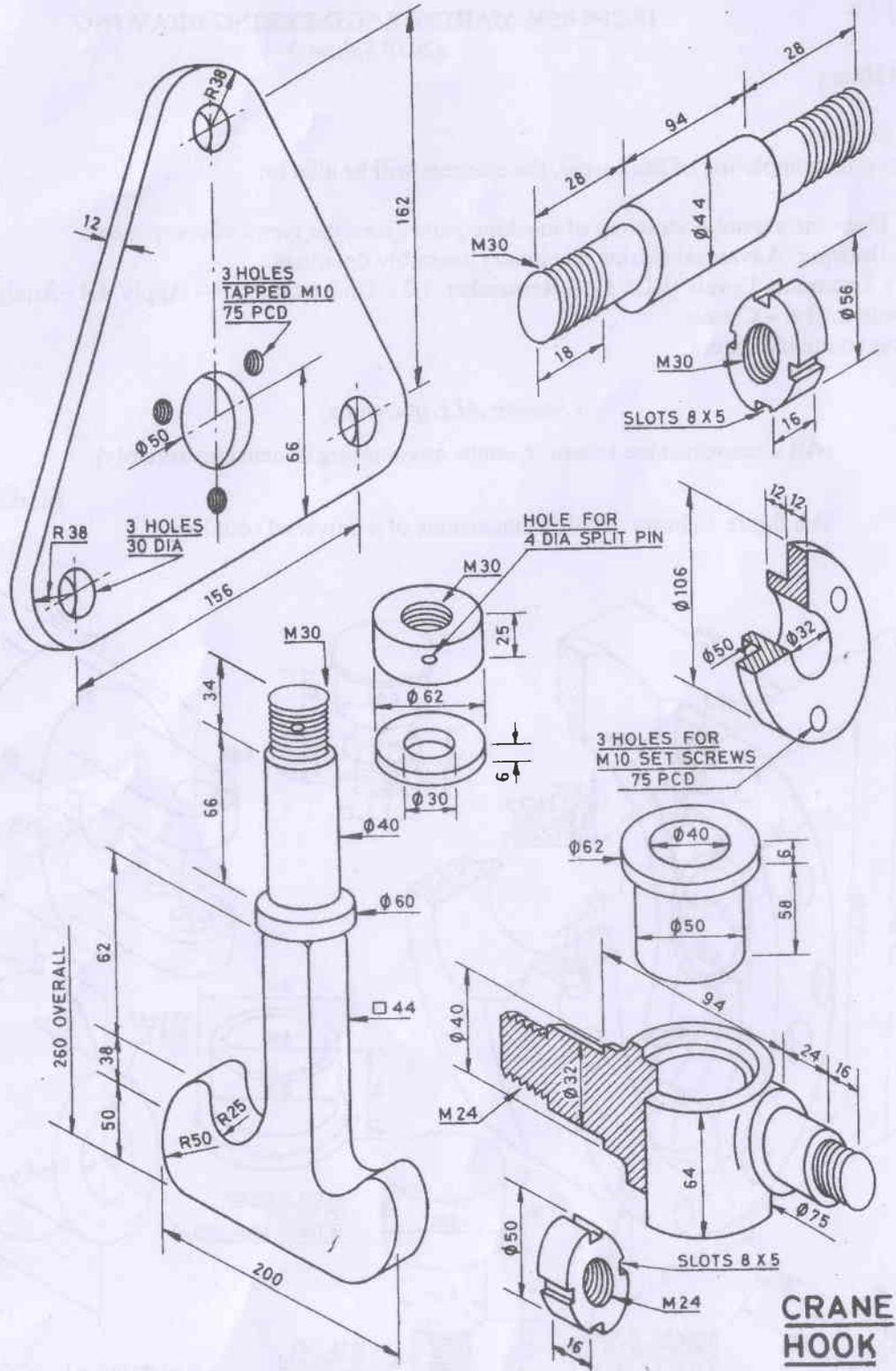




II. Detailed dimensions of a crane hook are shown in figure 2. Draw the following views.



**CRANE HOOK**

Figure 2

(a)	Sectional elevation of assembled swivel block through its axis.	15	L3	1	1.3.1
(b)	End view in assembled condition.	10	L3	1	1.3.1
(c)	Sectional plan view of assembled swivel block through its axis.	10	L3	1	1.3.1

(Continued)

III. Figure 3 gives the details of marine two stroke diesel engine piston.

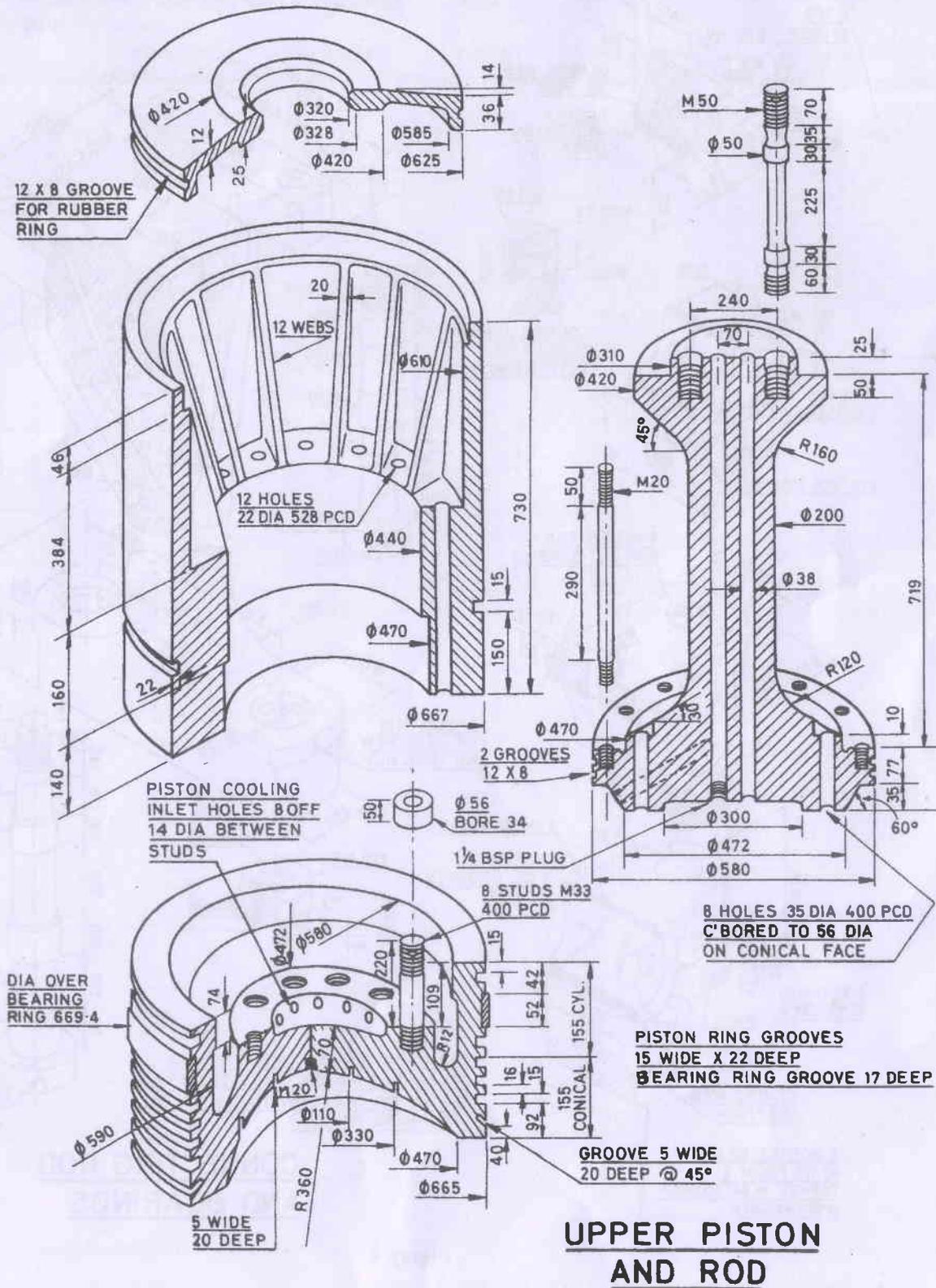


Figure 3

- |  |    |    |   |       |
|--|----|----|---|-------|
| (a) Draw elevation in section through piston cooling inlet and return ports in rod, showing all parts assembled. | 30 | L3 | 1 | 1.3.1 |
| (b) Draw plan view with skirt removed.   | 10 | L3 | 1 | 1.3.1 |

OR

(P.T.O.)

IV. Figure 4 shows details of connecting rod and bearings.

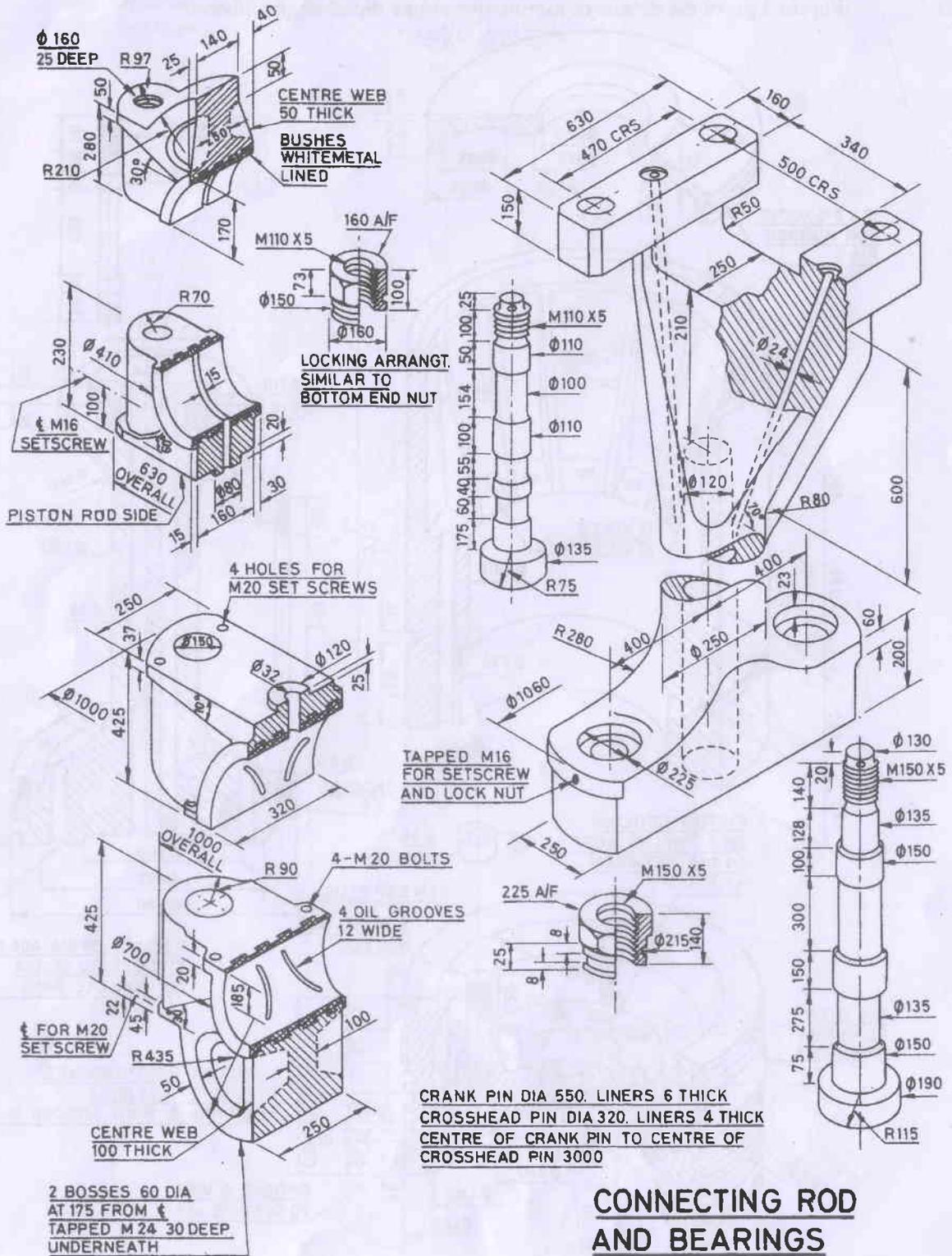


Figure 4

- |  |    |    |   |       |
|--|----|----|---|-------|
| (a) Draw sectional elevation with right half in section. | 30 | L3 | 2 | 1.3.1 |
| (b) Draw end view.                                       | 10 | L3 | 2 | 1.3.1 |

BT MRE-V(R/S)-11-23-3023

British Standard Pipe Thread - Parallel (BSPP/BSPPF) Inner						Tap		
Outer		Diameter	Threads	Pitch		Thread	Drill	
Nomina l	Dash	Diameter	Male Thread	Pitch	per	Diameter	Height	Diameter
Size	Size	(mm)	(mm)	(mm)	inch	(mm)	(mm)	(mm)
1/8"	02	9.728	8.566	0.907	28	9.147	0.581	8.7
1/4"	04	13.157	11.445	1.337	19	12.301	0.856	11.6
3/8"	06	16.662	14.95	1.337	19	15.806	0.856	15
1/2"	08	20.955	18.631	1.814	14	19.793	1.162	19
5/8"	10	22.911	20.587	1.814	14	21.749	1.162	20.75
3/4"	12	26.441	24.117	1.814	14	25.279	1.162	24.5
7/8"	14	30.201	27.877	1.814	14	29.039	1.162	28
1"	16	33.249	30.291	2.309	11	31.77	1.479	30.5
1 1/8"	18	37.897	34.939	2.309	11	36.418	1.479	35
1 1/4"	20	41.91	38.952	2.309	11	40.431	1.479	39.5
1 3/8"	22	44.323	41.365	2.309	11	42.844	1.479	41.5
1 1/2"	24	47.803	44.845	2.309	11	46.324	1.479	45
1 3/4"	28	53.746	50.788	2.309	11	52.267	1.479	51
2"	32	59.614	56.656	2.309	11	58.135	1.479	57
2 1/4"	36	65.71	62.752	2.309	11	64.231	1.479	63
2 1/2"	40	75.184	72.226	2.309	11	73.705	1.479	72.5
2 3/4"	44	81.534	78.576	2.309	11	80.055	1.479	79
3"	48	87.884	84.926	2.309	11	86.405	1.479	85.5

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