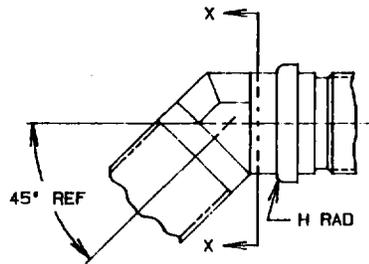


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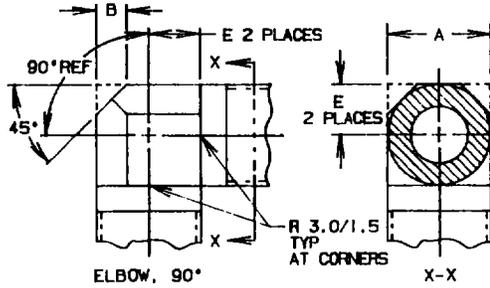
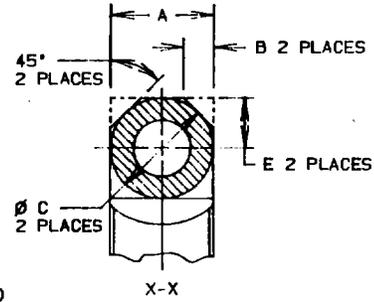
FEDERAL SUPPLY CLASS

4730

FIGURE 1
STANDARD AND REDUCED ENVELOPE FITTINGS

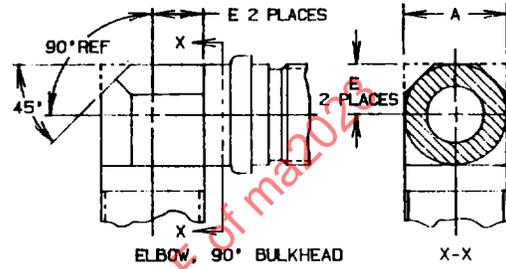


ELBOW, 45° BULKHEAD



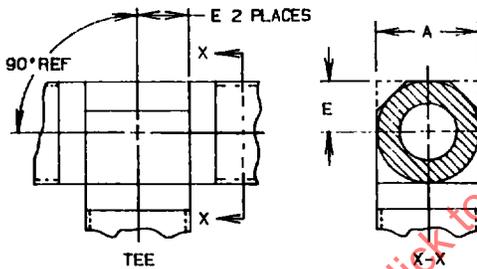
ELBOW, 90°

X-X



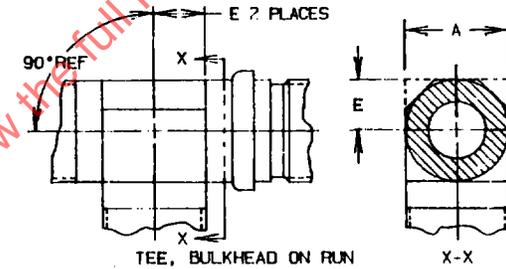
ELBOW, 90° BULKHEAD

X-X



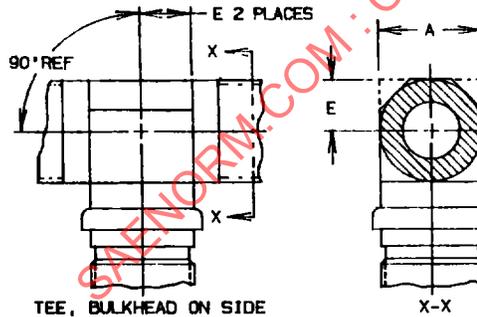
TEE

X-X



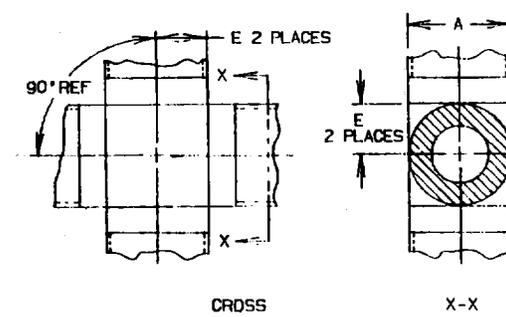
TEE, BULKHEAD ON RUN

X-X



TEE, BULKHEAD ON SIDE

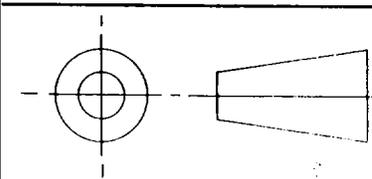
X-X



CROSS

X-X

THIRD ANGLE PROJECTION



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AEROSPACE STANDARD

WRENCH PAD, FLUID FITTING,
ALTERNATE MACHINED SHAPES OF,
DESIGN STANDARD FOR

MA 2023

SHEET 1 OF 3

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FIGURE 2
WELD FITTINGS

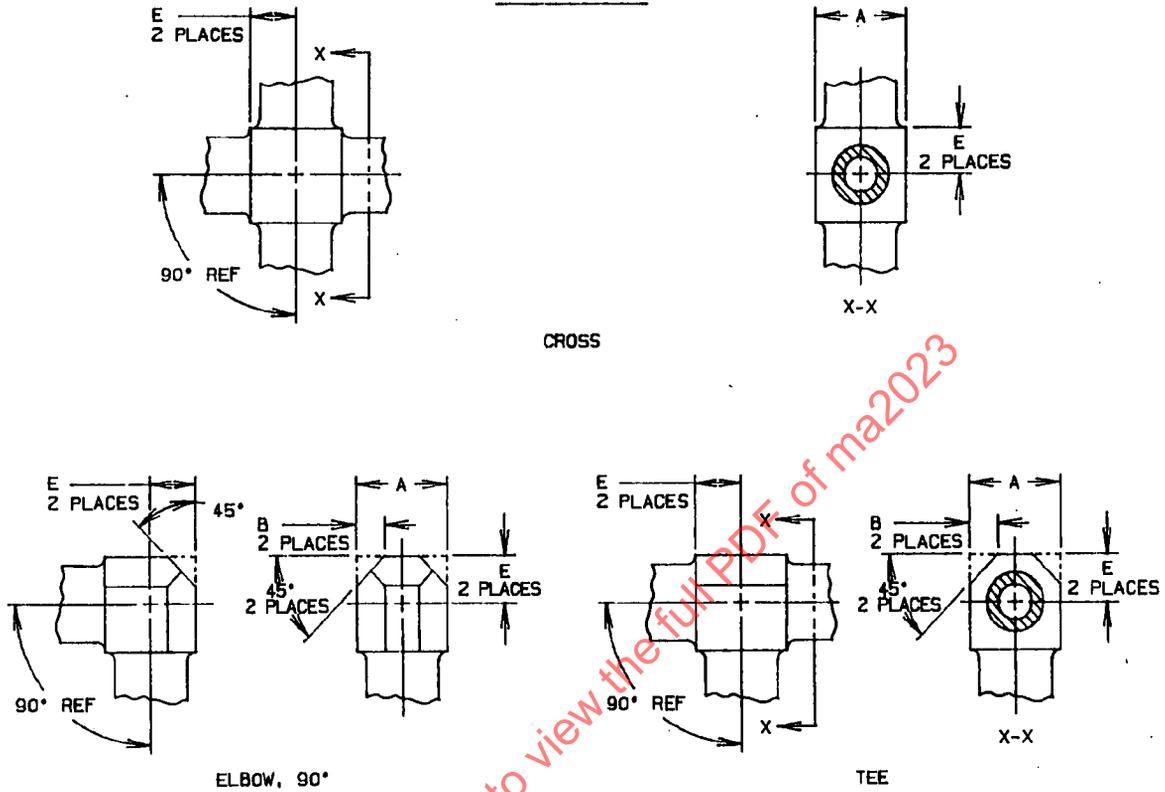


TABLE I
FITTING DIMENSIONS
SEE FIGURE 1

TUBE SIZE DN	A	B	$\phi C \pm 0.5$	E ± 0.25	H RAD ± 0.4	
05	10	-	10	5.0	2	
06	12	-	12	6.0	2	
08	14	-	14	7.0	3	
10	16	0	5.0	16	8.0	3
12	18	-1.0	5.6	18	9.0	3
14	20	-	6.5	20	10.0	5
16	22	-	7.1	22	11.0	5
20	27	-	8.8	27	13.5	5
25	33	-	10.0	33	16.5	5
32	42	0	12.1	42	21.0	5
40	50	-1.0	14.6	50	25.0	5

TABLE II
REDUCED ENVELOPE FITTING DIMENSIONS
SEE FIGURE 1

TUBE SIZE DN	A ± 0.5	B	$\phi C \pm 0.5$	E	H RAD ± 0.4
05	8	-	8	4	2
06	10	-	10	5	2
08	12	-	12	6	3
10	14	-	14	7	3
12	16	4.7	16	8	3
14	18	5.3	18	9	5
16	20	5.9	20	10	5
20	24	7.0	24	12	5
25	30	8.8	30	15	5
32	39	11.4	39	19.5	5

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