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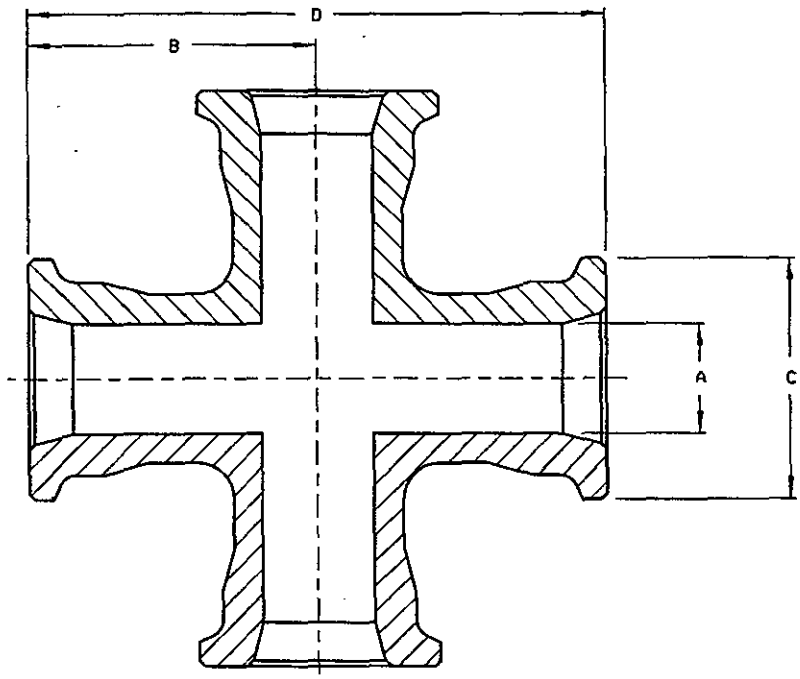
FED SUP CLASS
4730



MATERIAL CODE: SEE SHEET 2.

TEMPERATURE RANGE: SEE MATERIAL SPECIFICATION.

NOTES:

1. ALL MATERIALS ARE PER ASTM SPECIFICATIONS
2. ALL DIMENSIONS ARE IN INCHES.
3. TOLERANCE: SEE KC161.
4. FOR DESIGN FEATURE PURPOSES, THIS DRAWING TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
5. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON THE DATE OF INVITATION FOR BID.
6. DASH NUMBERS 1 TO 5 ARE NOT TO BE USED FOR NEW DESIGN. SEE DASH NUMBERS 21 TO 24.
7. DO NOT USE THIS STANDARD FOR ITEMS WHICH CANNOT BE IDENTIFIED BY THE LIMITATIONS CONTAINED HEREIN.
8. ALL PARTS NOT MANUFACTURED BY GRAY TOOL CO. MUST BE CERTIFIED BY THE MANUFACTURER TO BE INTERCHANGEABLE WITH THE GRAY TOOL PART NUMBER.

EXAMPLE OF PART NOS. BASIC PART NUMBER KC157-3A

- MATERIAL CODE
- DASH NUMBER

APPROVED SOURCE: COMMERCIAL PARTS CAN BE PURCHASED FROM: VETCO-GRAY INC. 10777 NW FWY PO BOX 2291 HOUSTON, TX 77252-2291

ALTERNATE SOURCES:

OTECO EQUIPMENT COMPANY
2811 TROUT STREET
P.O. BOX 1849
HOUSTON, TX 77251-1849

REFLANGE, INC.
5730 CENTRALCREST
HOUSTON, TX 77092

REVISED: (E) CHANGED APPROVED SOURCE. 10-2-92

APPROVED: 9-19-67

CUSTODIAN: JOHN F. KENNEDY SPACE CENTER		
PROCUREMENT SPEC. NONE	CROSS, PIPE HUB	STANDARD PART
COORDINATION STATUS		KC158 6
KSC DE		SHEET 1 OF 2

KSC FORM 32-85 (CG 4/92)

FED SUP CLASS
4730

DASH NO.	PIPE SIZE	HUB SIZE	DIMENSIONS A	B ±1/32	C	D ±1/16	-A SA-105 GR11 GRAYLOC STK NO.	-B SA-182 F-316SS GRAYLOC STK NO.	
1	½	½-¾GR5	.625	2.000	1.562	4.000	54212	54262	FORGED
2	½	½-¾GR4	.500	2.000	1.562	4.000	54207	54257	
3	¾	¾GR5	.625	2.000	1.562	4.000	54212	54262	
4	¾	¾GR4	.500	2.000	1.562	4.000	54207	54257	
5	1	1-1¼-1½GR11	1.125	4.000	3.125	8.000	54208	54263	CAST
6	1½	1¼-1½GR14	1.610	4.000	3.125	8.000	54209	54264	
7	2	2GR20	2.063	4.000	3.625	8.000	54210	54268	
8	2	2GR14	1.610	4.000	3.625	8.000	54211	54267	
9	2½	2½GR25	2.672	5.375	5.000	10.750	54221	54272	
10	2½	2½GR20	2.063	5.375	5.000	10.750	54216	54269	
11	3	3GR27	3.063	5.375	5.000	10.750	54220	54273	
12	3	3GR25	2.672	5.375	5.000	10.750	54221	54272	
13	4	4GR40	4.063	6.000	6.000	12.000	54225	54279	
14	4	4GR34	3.688	6.000	6.000	12.000	54226	54278	
15	4	4GR31	3.250	6.000	6.000	12.000	54227	54274	
16	5	5GR52	5.313	8.000	7.500	16.000	54219	54307	
17	5	5GR46	4.750	8.000	7.500	16.000	---	---	
18	5	5GR40	4.063	8.000	7.500	16.000	54214	54222	
19	6	6GR62	6.065	9.000	9.250	18.000	54230	54283	
20	6	6GR52	5.313	9.000	9.250	18.000	54231	54282	
							-A SA-148 GR90/60	-B SA-351 CF8M	FORGED

REVISED: (E) CHANGED APPROVED SOURCE ON SHEET 1. 10-2-92

APPROVED: 9-19-67

CUSTODIAN: JOHN F. KENNEDY SPACE CENTER

PROCUREMENT SPEC.
NONE

COORDINATION STATUS
KSC DE

TEE, PIPE HUB

STANDARD PART
KC158

SHEET 2 OF 2

KSC FORM 32-85 (CG 4/92)

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