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SAE AS1007

FEDERAL SUPPLY CLASS
4730

RATIONALE

UPDATES AND GENERAL EDITORIAL CORRECTIONS HAVE BEEN MADE. INACTIVATION FOR NEW DESIGN AND REPLACEMENT BY AS6047.

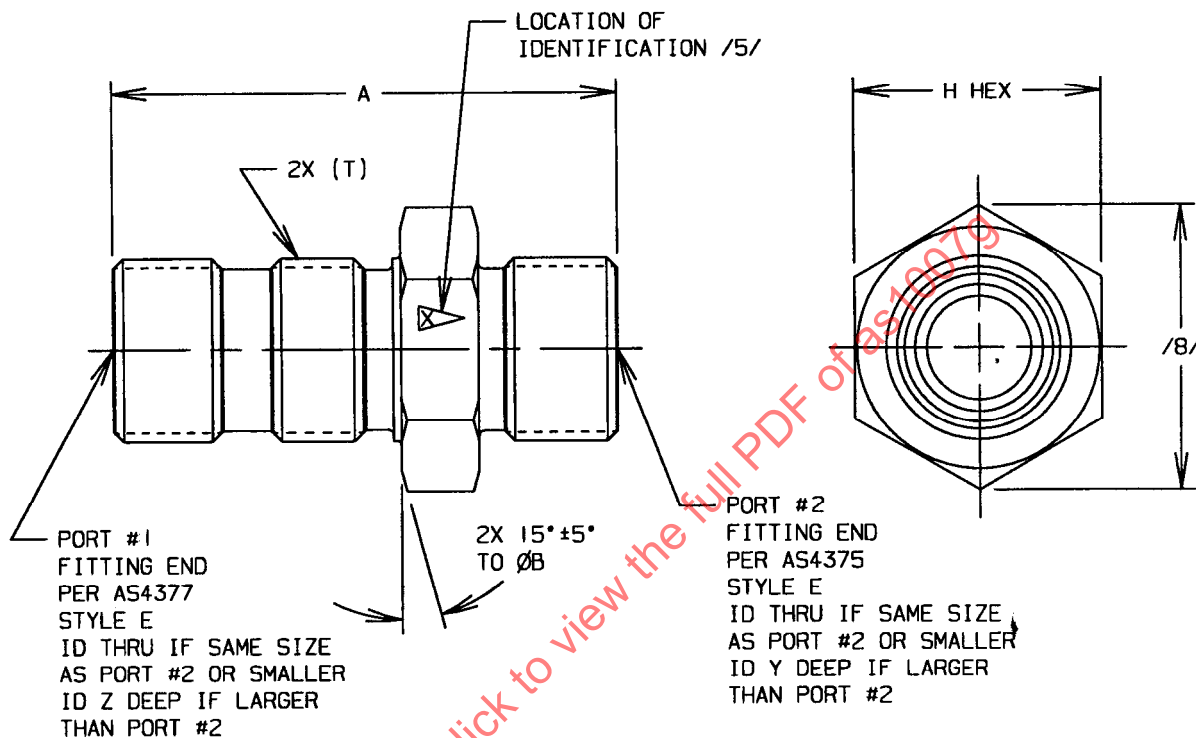
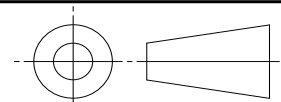


FIGURE 1 - FITTING, UNION, STANDARD AND REDUCER, BULKHEAD END FOR OPTIONAL USE IN PORT INSTALLATION, NON-REDUCER SHOWN

INACTIVE /20/

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS1007G>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS18280

SAE Aerospace
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AEROSPACE STANDARD

FITTING, UNION,
STANDARD AND REDUCER,
BULKHEAD, FLARELESS

SAE AS1007
SHEET 1 OF 6

REV.
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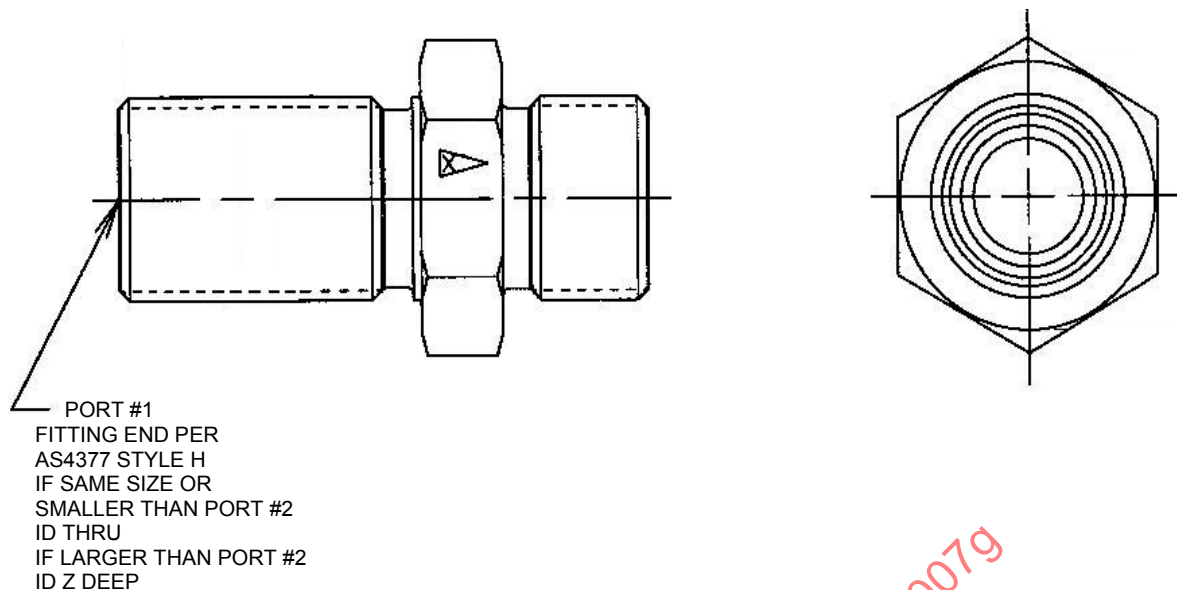


FIGURE 2 - FITTING, UNION, STANDARD AND REDUCER, BULKHEAD END
NOT FOR USE IN PORT INSTALLATION, NON-REDUCER SHOWN, SAME AS
FIGURE 1 EXCEPT AS SHOWN

TABLE 1 - OVERALL LENGTH A /12/

SIZE OF PORT #2	SIZE OF PORT #1												
	02 ±.010	03 ±.010	04 ±.010	05 ±.010	06 ±.010	08 ±.010	10 ±.010	12 ±.010	14 ±.010	16 ±.010	20 ±.010	24 ±.010	32 ±.010
02	1.484	1.516	1.578	1.609	1.703	1.844	2.000	2.156	2.156	2.156	2.156	2.156	2.422
03	1.516	1.563	1.625	1.656	1.750	1.891	2.047	2.203	2.203	2.203	2.203	2.203	2.469
04	1.547	1.594	1.656	1.688	1.781	1.922	2.078	2.234	2.234	2.234	2.234	2.234	2.500
05	1.578	1.625	1.688	1.688	1.781	1.922	2.078	2.324	2.234	2.234	2.234	2.234	2.500
06	1.641	1.688	1.750	1.750	1.797	1.938	2.094	2.250	2.250	2.250	2.250	2.250	2.516
08	1.734	1.781	1.844	1.844	1.891	2.031	2.188	2.344	2.344	2.344	2.344	2.344	2.609
10	1.813	1.859	1.922	1.922	1.969	2.109	2.250	2.406	2.406	2.406	2.406	2.406	2.672
12	1.922	1.969	2.031	2.031	2.078	2.219	2.360	2.484	2.469	2.469	2.469	2.469	2.734
14	1.922	1.969	2.031	2.031	2.078	2.219	2.360	2.469	2.469	2.469	2.469	2.469	2.734
16	1.922	1.969	2.031	2.031	2.078	2.219	2.360	2.469	2.469	2.469	2.469	2.469	2.734
20	1.922	1.969	2.031	2.031	2.078	2.219	2.360	2.469	2.469	2.469	2.469	2.469	2.734
24	1.922	1.969	2.031	2.031	2.078	2.219	2.360	2.469	2.469	2.469	2.469	2.469	2.734
32	1.984	2.031	2.094	2.094	2.141	2.281	2.422	2.531	2.531	2.531	2.531	2.531	2.734

TABLE 2 - HOLE DEPTH Y /12/

SIZE OF PORT	SIZE OF PORT #1													
#2	02	03	04	05	06	08	10	12	14	16	20	24	32	
02	-	-	-	-	-	-	-	-	-	-	-	-	-	
03	.469	-	-	-	-	-	-	-	-	-	-	-	-	
04	.484	.484	-	-	-	-	-	-	-	-	-	-	-	
05	.500	.500	.516	-	-	-	-	-	-	-	-	-	-	
06	.547	.531	.562	.562	-	-	-	-	-	-	-	-	-	
08	.594	.594	.625	.625	.641	-	-	-	-	-	-	-	-	
10	.656	.656	.672	.672	.703	.672	-	-	-	-	-	-	-	
12	.719	.719	.734	.750	.766	.750	.750	-	-	-	-	-	-	
14	.688	.688	.704	.719	.735	.719	.719	.861	-	-	-	-	-	
16	.656	.656	.672	.672	.703	.688	.688	.719	.688	-	-	-	-	
20	.594	.594	.609	.609	.641	.625	.625	.656	.625	.703	-	-	-	
24	.516	.516	.531	.547	.562	.641	.656	.578	.547	.641	.656	-	-	
32	.453	.438	.469	.469	.469	.469	.469	.516	.485	.562	.578	.656	-	

TABLE 3 - HOLE DEPTH Z /12/

SIZE OF PORT #2	SIZE OF PORT #1													
	02	03	04	05	06	08	10	12	14	16	20	24	32	
02	-	1.016	1.062	1.078	1.156	1.250	1.391	1.500	1.477	1.438	1.375	1.297	1.438	
03	-	-	1.047	1.078	1.141	1.250	1.391	1.500	1.471	1.422	1.375	1.297	1.422	
04	-	-	-	1.094	1.172	1.281	1.406	1.516	1.494	1.453	1.391	1.312	1.453	
05	-	-	-	-	1.172	1.281	1.422	1.531	1.500	1.453	1.391	1.328	1.453	
06	-	-	-	-	-	1.297	1.438	1.547	1.523	1.391	1.422	1.344	1.484	
08	-	-	-	-	-	-	1.453	1.562	1.533	1.484	1.438	1.359	1.391	
10	-	-	-	-	-	-	-	1.562	1.537	1.500	1.438	1.359	1.500	
12	-	-	-	-	-	-	-	-	1.574	1.531	1.468	1.406	1.531	
14	-	-	-	-	-	-	-	-	-	1.566	1.503	1.430	1.559	
16	-	-	-	-	-	-	-	-	-	-	1.516	1.453	1.562	
20	-	-	-	-	-	-	-	-	-	-	-	1.468	1.594	
24	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 4 - TUBE SIZE AND CORRESPONDING THREAD

PORT SIZE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS A
02	.125	.3125-24 UNJF
03	.188	.3750-24 UNJF
04	.250	.4375-20 UNJF
05	.312	.5000-20 UNJF
06	.375	.5625-18 UNJF
08	.500	.7500-16 UNJF
10	.625	.8750-14 UNJF
12	.750	1.0625-12 UNJ
14	.875	1.1875-12 UNJ
16	1.000	1.3125-12 UNJ
20	1.250	1.6250-12 UNJ
24	1.500	1.8750-12 UNJ
32	2.000	2.5000-12 UNJ

TABLE 5 - HEX DIMENSION AND WEIGHTS /11/

BASIC NO. AS1007 /19/ LARGEST PORT SIZE CODE	B ±.010	H	LB/EA APPROX REF ALUM	LB/EA APPROX REF STEEL	LB/EA APPROX REF TI
02	.542	.552-.565	.00990	.0279	.0153
03	.605	.615-.628	.0162	.0432	.0243
04	.668	.678-.691	.0207	.0558	.0315
05	.730	.740-.753	.0261	.0702	.0405
06	.792	.802-.815	.0315	.0855	.0486
08	.980	.990-1.003	.0576	.158	.0900
10	1.103	1.113-1.128	.0810	.210	.126
12	1.353	1.363-1.380	.120	.325	.187
14	1.478	1.488-1.505	-	-	-
16	1.603	1.613-1.630	.182	.437	.286
20	1.853	1.863-1.880	.224	.610	.332
24	2.099	2.109-2.225	.266	.733	.422
32	2.724	2.734-2.760	-	-	-

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

/1/ MATERIAL:

- CODE LETTER DASH (-) - TYPE 4130 LOW ALLOY STEEL BAR PER AMS6370 OR AMS-S-6758 EXCEPT HEAT TREATMENT PER PROCUREMENT SPECIFICATION. /2/
- CODE LETTER D - TYPE 2024-T6 OR -T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6. /2/
- CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS5639 OR AMS-QQ-S-763 EXCEPT HARDNESS PER PROCUREMENT SPECIFICATION. /2/

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