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Resource For
Advancing Mobility

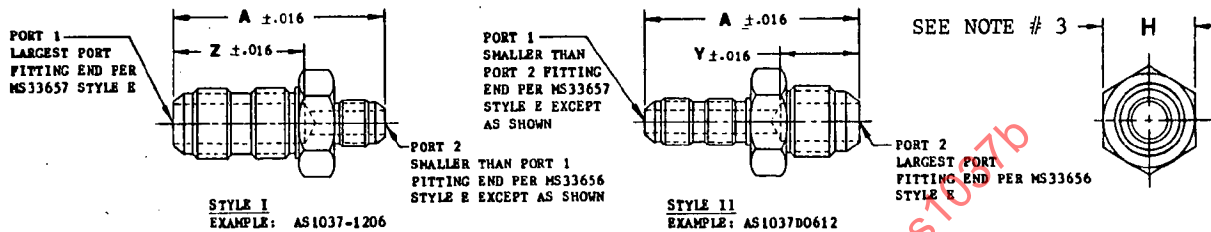
400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096

AEROSPACE STANDARD

AS1037B

Issued 8-15-62
Revised 4-4-83

UNION, REDUCER, BULKHEAD, FLARED TUBE



-	.625	.688	.750	.812	1.000	1.125	1.375	1.625	1.875	2.125	2.750	H	H HEX
2	3	4	5	6	8	10	12	16	20	24	32	SIZE #1 PORT	
DIMENSION A OVERALL LENGTH												SIZE #2 PORT	
-	1.641	1.758	1.758	1.924	2.057	2.222	2.428	2.428	2.459	2.491	2.756	2	-
1.672	-	1.789	1.789	1.955	2.088	2.257	2.459	2.459	2.490	2.522	2.787	3	.625
1.766	1.766	-	1.860	2.026	2.159	2.324	2.530	2.530	2.561	2.593	2.858	4	.688
1.766	1.766	1.860	-	2.026	2.159	2.324	2.530	2.530	2.561	2.593	2.858	5	.750
1.860	1.860	1.954	1.954	-	2.165	2.330	2.536	2.536	2.558	2.599	2.864	6	.812
1.938	1.938	2.032	2.032	2.110	-	2.431	2.637	2.637	2.668	2.700	2.965	8	1.000
2.063	2.063	2.157	2.157	2.235	2.391	-	2.738	2.738	2.369	2.801	3.066	10	1.125
2.204	2.204	2.298	2.298	2.376	2.532	2.673	-	2.844	2.875	2.907	3.172	12	1.375
2.251	2.251	2.345	2.345	2.423	2.579	2.720	2.891	-	2.922	2.954	3.219	16	1.625
2.469	2.469	2.376	2.376	2.454	2.610	2.751	2.922	2.922	-	3.001	3.266	20	1.875
2.423	2.423	2.517	2.517	2.595	2.751	2.892	3.063	3.063	3.110	-	3.391	24	2.125
2.657	2.657	2.751	2.751	2.829	2.985	3.126	3.297	3.297	3.344	3.360	-	32	2.750

DRILL DEPTH Z ±.016												SIZE OF #2 PORT
SIZE OF #1 PORT												
3	4	5	6	8	10	12	16	20	24	32		
.859	.953	.953	1.032	1.219	1.360	1.531	1.532	1.578	1.968	1.875	2	
	.953	.953	1.032	1.219	1.360	1.531	1.532	1.578	1.968	1.875	3	
		.953	1.032	1.219	1.360	1.531	1.532	1.578	1.968	1.875	4	
			1.032	1.219	1.360	1.531	1.532	1.578	1.968	1.875	5	
				1.219	1.360	1.531	1.532	1.578	1.968	1.875	6	
					1.360	1.531	1.532	1.578	1.968	1.875	8	
						1.531	1.532	1.578	1.968	1.875	10	
							1.532	1.578	1.968	1.875	12	
								1.578	1.968	1.875	16	
									1.968	1.875	20	
										1.875	24	

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DRILL DEPTH Y ±.016											
SIZE OF #2 PORT											
3	4	5	6	8	10	12	16	20	24	32	
.510	.581	.581	.587	.688	.789	.895	.942	.989	1.114	1.364	2
	.581	.581	.587	.688	.789	.895	.942	.989	1.114	1.364	3
		.581	.587	.688	.789	.895	.942	.989	1.114	1.364	4
			.587	.688	.789	.895	.942	.989	1.114	1.364	5
				.688	.789	.895	.942	.989	1.114	1.364	6
					.789	.895	.942	.989	1.114	1.364	8
						.895	.942	.989	1.114	1.364	10
							.942	.989	1.114	1.364	12
								.989	1.114	1.364	16
									1.114	1.364	20
										1.364	24
											SIZE OF #1 PORT

SIZE
OF
#1
PORT

- END OPPOSITE LARGEST END -- DRILL THRU.
- SPECIFY END SIZES IN THE FOLLOWING ORDER: (1) BULKHEAD END; (2) SHORT END.
- LARGEST END DETERMINES HEX SIZE. HEX TOLERANCE IN ACCORDANCE WITH MS33656 / MS33657
- MATERIAL CODING:
 - STEEL 1137 OR 1141 PER QQ-S-637 (ALTERNATE MATERIAL: 4130 / MIL-S-6758). FINISH CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2. COLOR BLACK.
 - S CRES TYPE 347. CRES PER QQ-S-763 SURFACE TREAT PER MIL-S-5002.
 - J CRES TYPE 304. CRES PER QQ-S-763 SURFACE TREAT PER MIL-S-5002.
 - K CRES TYPE 316. CRES PER QQ-S-763 SURFACE TREAT PER MIL-S-5002.
 - D ALUMINUM ALLOY 2024-T6 PER QQ-A-225/6 (OR 2024-T851). ANODIZE PER MIL-A-8625, TYPE II, CLASS 2. DYE BLUE.
 - W ALUMINUM ALLOY 7075-T73 PER QQ-A-225/9. ANODIZE PER MIL-A-8625, TYPE II, CLASS 2. DYE BROWN.
 - T TITANIUM ALLOY (6AL-4V) PER AMS 4928. FLUORIDE PHOSPHATE COAT PER AMS 2486.
- PART NUMBER EXAMPLE:

ALUMINUM ALLOY 1.625 HEX			
AS1037 D 08 16	A	Z	Y
MS33657-8	2.579	THRU	
MS33656-16			.942

- PROC. SPEC. MIL-F-5509, LATEST REVISION, UNLESS OTHERWISE SPECIFIED ON PURCHASE ORDER BY PURCHASER.
- REMOVE ALL BURRS AND BREAK ALL SHARP EDGES.
- THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- MANUFACTURER'S TRADEMARK AND BASIC PART NUMBER (EXCLUSIVE OF SIZE) TO APPEAR PERMANENTLY ON FINISHED PARTS. BASIC PART NUMBER MAY BE REDUCED TO "AS" ON SIZE 6 AND SMALLER. PARTS PREVIOUSLY IMPRESSION STAMPED WITH AN, MS OR PROPRIETARY IDENTIFICATION SHALL BE ACCEPTABLE PROVIDED SUCH IDENTIFICATION IS OBLITERATED BY IMPRESSION STAMPING WITHOUT DAMAGING THE PART.