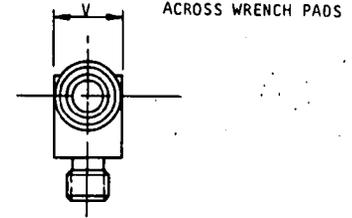
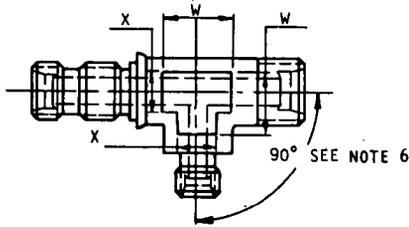
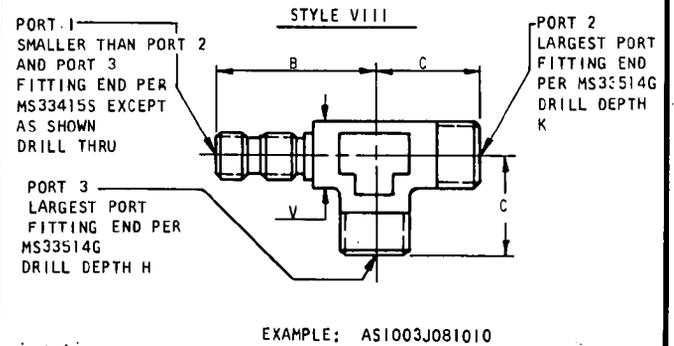
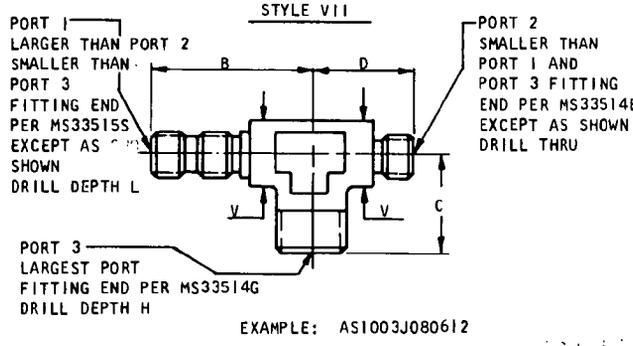
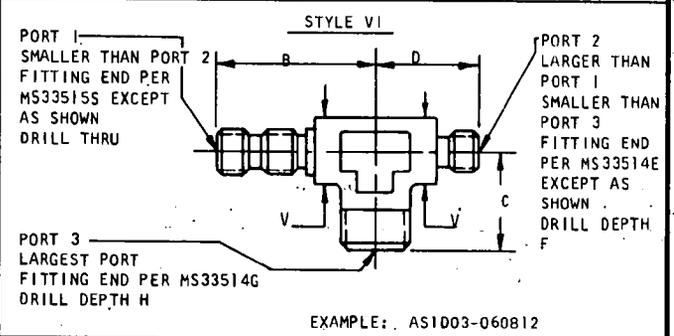
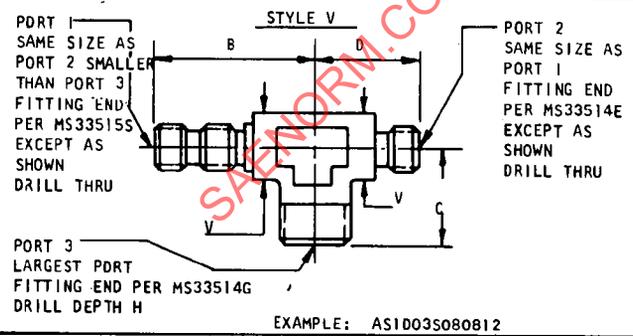
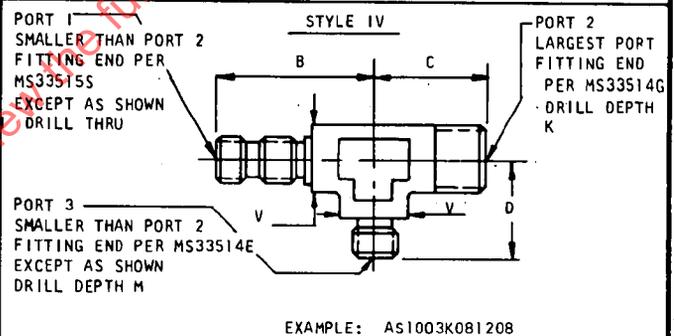
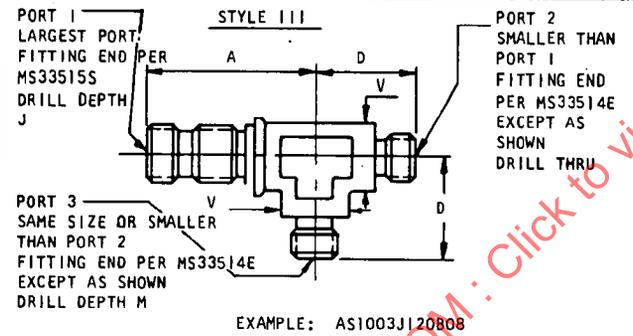
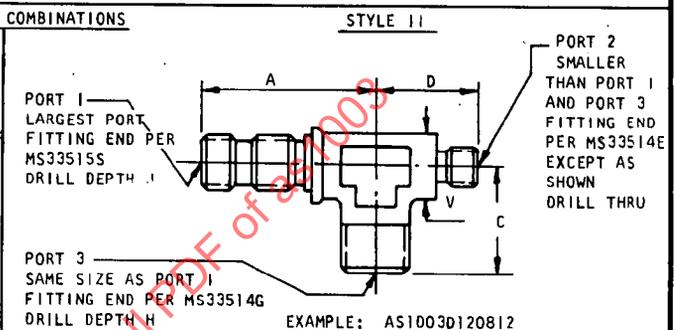
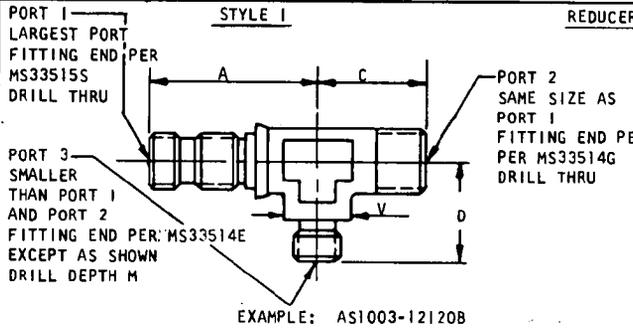


TEE, REDUCER, BULKHEAD ON RUN, FLARELESS TUBE

Issued 3-15-66
 Revised



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AS1003

Issued 3-15-66
Revised

TEE, REDUCER, BULKHEAD DN RUN, FLARELESS TUBE

FORGING SIZE	A ±.016	C ±.016	H ±.016	V ±.016	W MIN	X MIN
3	1.414	.930	.969	.375	.375	.250
4	1.523	.961	1.000	.438	.375	.250
5	1.555	1.055	1.094	.500	.469	.312
6	1.711	1.086	1.125	.562	.500	.312
8	1.992	1.336	1.375	.750	.688	.438
10	2.273	1.524	1.562	.875	.781	.438
12	2.492	1.649	1.688	1.062	.906	.500
16	2.617	1.742	1.781	1.312	1.094	.625
20	2.898	2.023	2.062	1.625	1.312	.750
24	3.180	2.211	2.234	1.875	1.500	.875
32	3.773	2.398	2.438	2.562	2.032	1.094

LEG LENGTH B ±.016												
FORGING SIZE												
3	4	5	6	8	10	12	16	20	24	32	PORT #1	SIZE
1.367	1.413	1.445	1.555	1.664	1.804	1.914	2.039	2.320	2.602	2.992	2	
	1.460	1.492	1.602	1.711	1.851	1.961	2.086	2.367	2.649	3.039	3	
		1.555	1.665	1.774	1.914	2.024	2.149	2.430	2.712	3.102	4	
			1.665	1.774	1.914	2.024	2.149	2.430	2.712	3.102	5	
				1.820	1.960	2.070	2.195	2.476	2.758	3.148	6	
					2.132	2.242	2.367	2.648	2.930	3.320	8	
						2.383	2.508	2.789	3.071	3.461	10	
							2.617	2.898	3.180	3.570	12	
								2.898	3.180	3.570	16	
									3.180	3.570	20	
										3.570	32	

LEG LENGTH D ±.016

FORGING SIZE												
3	4	5	6	8	10	12	16	20	24	32	PORT #2	SIZE
.883	.883	.977	.992	1.149	1.274	1.335	1.429	1.710	1.898	2.085	2	
	.930	1.024	1.039	1.196	1.320	1.383	1.478	1.757	1.945	2.132	3	
		1.055	1.070	1.227	1.352	1.414	1.507	1.788	1.976	2.163	4	
			1.070	1.227	1.352	1.414	1.507	1.788	1.976	2.163	5	
				1.243	1.368	1.430	1.523	1.804	1.992	2.179	6	
					1.461	1.523	1.616	1.897	2.085	2.272	8	
						1.586	1.679	1.960	2.148	2.335	10	
							1.742	2.023	2.211	2.398	12	
								2.023	2.211	2.398	16	
									2.211	2.398	20	
										2.398	24	

DRILL DEPTH F ±.016

FORGING SIZE												
4	5	6	8	10	12	16	20	24	32	PORT #2	SIZE	
1.062	1.172	1.219	1.438	1.609	1.750	1.953	2.344	2.656	3.078	3		
		1.203	1.250	1.469	1.641	1.781	1.984	2.375	2.688	3.109	4	
			1.250	1.469	1.641	1.781	1.984	2.375	2.688	3.109	5	
				1.485	1.656	1.797	2.000	2.391	2.703	3.125	6	
					1.750	1.891	2.094	2.484	2.797	3.219	8	
						1.953	2.156	2.547	2.859	3.281	10	
							2.219	2.609	2.922	3.344	12	
								2.609	2.922	3.344	16	
									2.922	3.344	20	
										3.344	24	

DRILL DEPTH K ±.016

FORGING SIZE													
3	4	5	6	8	10	12	16	20	24	32	PORT #3	SIZE	
1.016	1.047	1.141	1.172	1.422	1.609	1.734	1.828	2.109	2.297	2.484	2		
	1.031	1.062	1.156	1.188	1.438	1.625	1.750	1.844	2.125	2.312	2.500	3	
		1.094	1.187	1.219	1.469	1.656	1.781	1.875	2.156	2.344	2.531	4	
			1.203	1.234	1.484	1.672	1.797	1.891	2.172	2.359	2.547	5	
				1.266	1.516	1.703	1.828	1.922	2.203	2.391	2.578	6	
					1.578	1.766	1.891	1.984	2.266	2.453	2.641	8	
						1.812	1.938	2.031	2.312	2.500	2.688	10	
							2.016	2.109	2.391	2.578	2.766	12	
								2.219	2.500	2.688	2.875	16	
									2.609	2.797	2.984	20	
										2.922	3.109	24	
											3.344	32	

DRILL DEPTH J ±.016

FORGING SIZE													
3	4	5	6	8	10	12	16	20	24	32	PORT #3	SIZE	
.500	1.609	1.641	1.797	2.078	2.359	2.578	2.703	2.984	3.266	3.859	2		
	1.516	1.625	1.656	1.812	2.094	2.375	2.594	2.719	3.000	3.281	3.875	3	
		1.656	1.703	1.844	2.125	2.406	2.625	2.750	3.031	3.312	3.906	4	
			1.703	1.859	2.141	2.422	2.641	2.766	3.047	3.328	3.922	5	
				1.891	2.172	2.453	2.672	2.797	3.078	3.359	3.953	6	
					2.234	2.516	2.734	2.859	3.141	3.422	4.016	8	
						2.562	2.781	2.906	3.188	3.468	4.062	10	
							2.859	2.984	3.266	3.547	4.141	12	
								3.094	3.375	3.656	4.250	16	
									3.484	3.766	4.359	20	
										3.891	4.484	24	
											4.719	32	

DRILL DEPTH M ±.016

FORGING SIZE												
3	4	5	6	8	10	12	16	20	24	32	PORT #3	SIZE
.922	.922	1.016	1.031	1.188	1.312	1.375	1.469	1.750	1.938	2.125	2	
	.969	1.062	1.078	1.234	1.359	1.422	1.516	1.797	1.984	2.172	3	
		1.094	1.109	1.266	1.391	1.453	1.547	1.828	2.016	2.203	4	
			1.109	1.266	1.391	1.453	1.547	1.828	2.016	2.203	5	
				1.281	1.406	1.469	1.562	1.844	2.032	2.219	6	
					1.500	1.562	1.656	1.938	2.125	2.312	8	
						1.625	1.719	2.000	2.187	2.375	10	
							1.781	2.062	2.250	2.438	12	
								2.062	2.250	2.438	16	
									2.250	2.438	20	
										2.438	24	

DRILL DEPTH L ±.016

PORT #1 SIZE												
24	20	16	12	10	8	6	5	4	3	PORT #3	SIZE	
4.156	4.516	4.516	4.516	4.359	4.266	4.094	4.047	4.047	3.984	32		
	3.891	3.891	3.891	3.781	3.641	3.469	3.422	3.422	3.359	24		
		3.484	3.484	3.375	3.234	3.062	3.016	3.016	2.953	20		
			3.094	2.984	2.844	2.672	2.625	2.625	2.562	16		
				2.750	2.609	2.438	2.391	2.391	2.328	12		
					2.422	2.250	2.203	2.203	2.141	10		
						2.062	2.016	2.016	1.953	8		
							1.844	1.844	1.781	6		
								1.703	1.641	5		
									1.594	4		