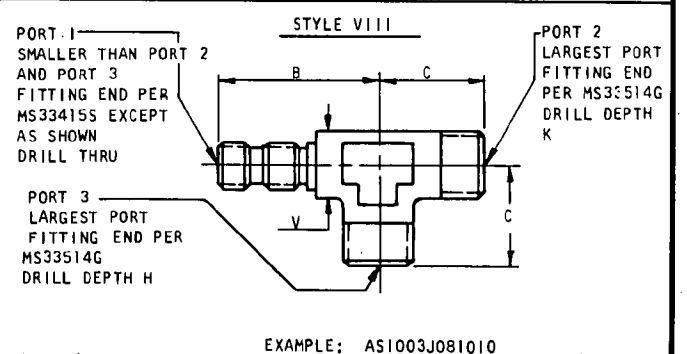
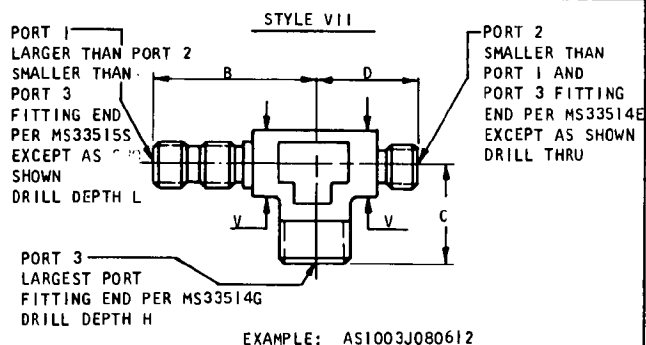
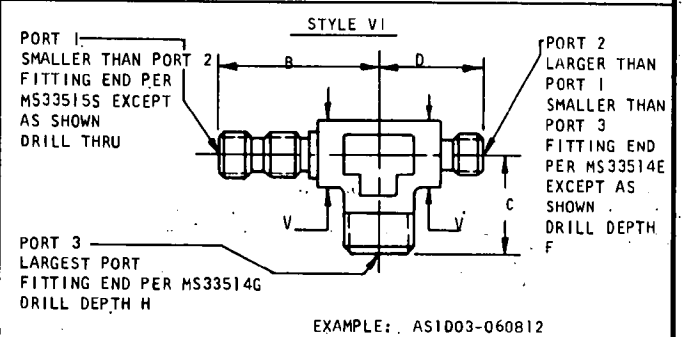
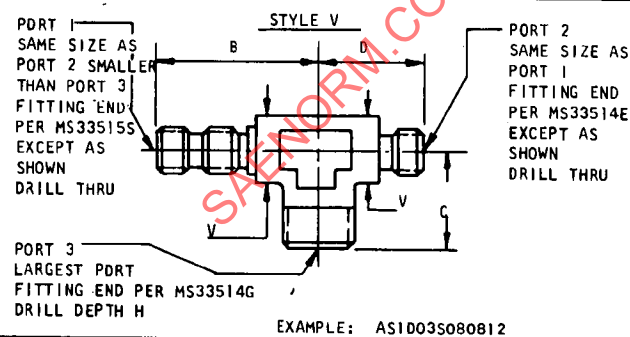
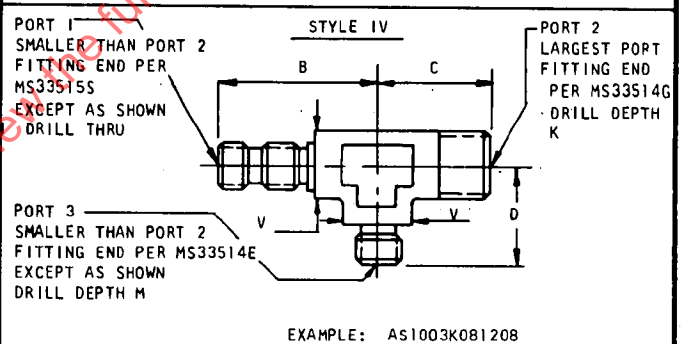
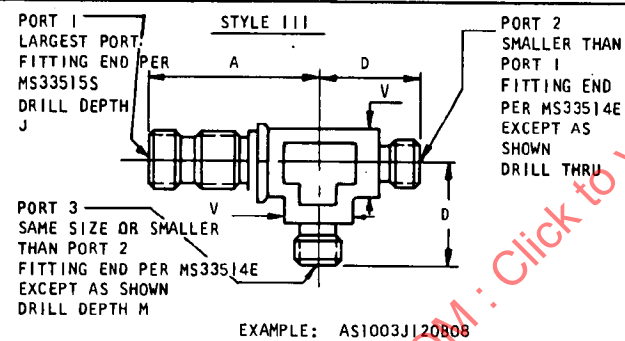
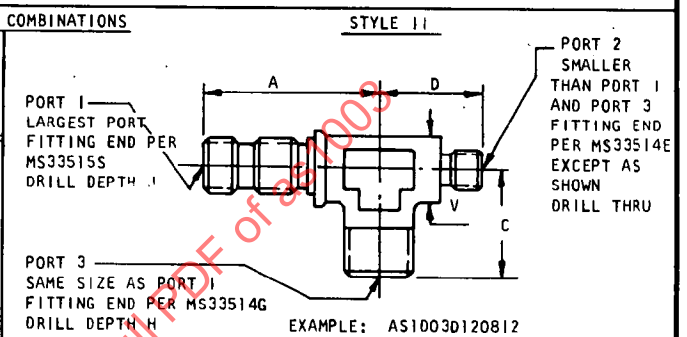
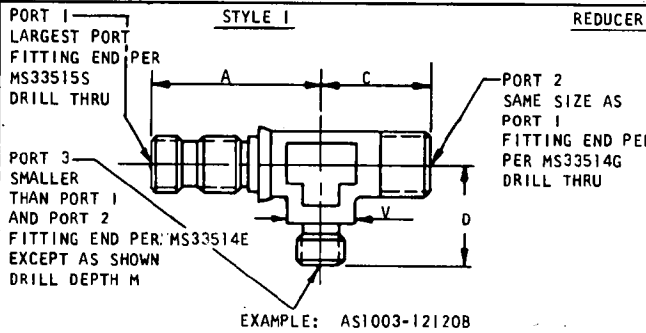
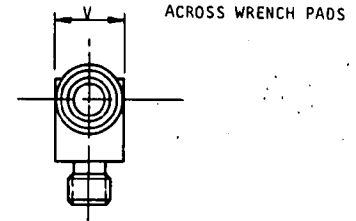
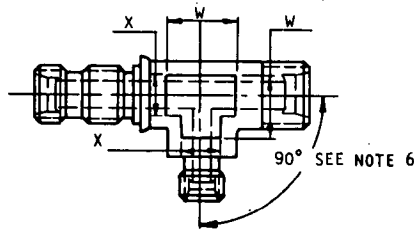


TEE, REDUCER, BULKHEAD ON RUN, FLARELESS TUBE

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		
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	

PORT #1
SIZE

DRILL DEPTH F ±.016

FORGING SIZE												
4	5	6	8	10	12	16	20	24	32			
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		

PORT #2
SIZE

LEG LENGTH D ±.016

FORGING SIZE												
3	4	5	6	8	10	12	16	20	24	32		
.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	1.476	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	

PORT #3
OR
#3
SIZE

DRILL DEPTH K ±.016

FORGING SIZE												
3	4	5	6	8	10	12	16	20	24	32		
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	3	
		1.094	1.187	1.219	1.469	1.656	1.781	1.875	2.156	2.344	4	
			1.203	1.234	1.484	1.672	1.797	1.891	2.172	2.359	5	
				1.266	1.516	1.703	1.828	1.922	2.203	2.391	6	
					1.578	1.766	1.891	1.984	2.266	2.453	8	
						1.812	1.938	2.031	2.312	2.500	10	
							2.016	2.109	2.391	2.578	12	
								2.219	2.500	2.688	16	
									2.609	2.797	20	
										2.922	24	
											32	

PORT #3
SIZE

DRILL DEPTH J ±.016

FORGING SIZE												
3	4	5	6	8	10	12	16	20	24	32		
1.500	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	
		1.656	1.703	1.844	2.125	2.406	2.625	2.750	3.031	3.312	4	
			1.703	1.859	2.141	2.422	2.641	2.766	3.047	3.328	5	
				1.891	2.172	2.453	2.672	2.797	3.078	3.359	6	
					2.234	2.516	2.734	2.859	3.141	3.422	8	
						2.562	2.781	2.906	3.188	3.468	10	
							2.859	2.984	3.266	3.547	12	
								3.094	3.375	3.656	16	
									3.484	3.766	20	
										3.891	24	
											32	

PORT #3
SIZE

DRILL DEPTH M ±.016

FORGING SIZE												
3	4	5	6	8	10	12	16	20	24	32		
.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	

PORT #3
SIZE

DRILL DEPTH L ±.016

PORT #1 SIZE												
24	20	16	12	10	8	6	5	4	3			
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		

PORT #3
SIZE