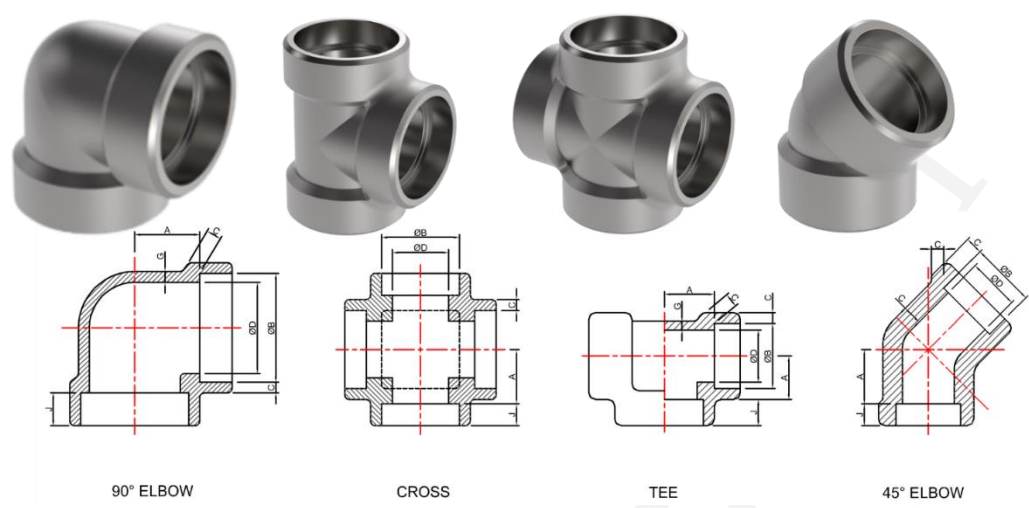


Project Name: _____
Job #: _____

ASTM A182, FORGED STEEL

90° ELBOW ♠ CROSS ♦ TEES ♥ 45° ELBOW – SOCKET WELD



- Grade: T304L T316L
 Connection: Socket weld
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

SELECT	DN	Nom. Pipe Size	Socket Bore Dia. (2) B	Bore Diameter of Fitting (2) D		Socket Wall Thickness (1) C				Body Wall Thickness G		Depth of Socket Min. J
				Class Designation		Class Designation				Class Designation		
				3000	6000	3000		6000		3000	6000	
						Ave.	Min.	Ave.	Min.	Min.	Min.	
<input type="checkbox"/>	6	1/8	0.441 0.425	0.299 0.240	0.189 0.126	0.125	0.125	0.156	0.135	0.095	0.124	0.374
<input type="checkbox"/>	8	1/4	0.575 0.559	0.394 0.335	0.280 0.220	0.149	0.130	0.181	0.158	0.119	0.145	0.374
<input type="checkbox"/>	10	3/8	0.709 0.693	0.524 0.465	0.390 0.331	0.158	0.138	0.198	0.172	0.126	0.158	0.374
<input type="checkbox"/>	15	1/2	0.874 0.858	0.654 0.591	0.492 0.433	0.184	0.161	0.235	0.204	0.147	0.188	0.374
<input type="checkbox"/>	20	3/4	1.087 1.071	0.854 0.795	0.642 0.583	0.193	0.168	0.274	0.238	0.154	0.219	0.492
<input type="checkbox"/>	25	1	1.350 1.335	1.079 1.020	0.846 0.783	0.224	0.196	0.312	0.273	0.179	0.250	0.492
<input type="checkbox"/>	32	1 1/4	1.697 1.681	1.409 1.350	1.189 1.130	0.239	0.208	0.312	0.273	0.191	0.250	0.492
<input type="checkbox"/>	40	1 1/2	1.937 1.921	1.638 1.579	1.366 1.307	0.250	0.218	0.351	0.307	0.200	0.281	0.492
<input type="checkbox"/>	50	2	2.429 2.409	2.098 2.035	1.717 1.657	0.273	0.238	0.430	0.374	0.218	0.344	0.630
<input type="checkbox"/>	65	2 1/2	2.929 2.909	2.528 2.409		0.345	0.302			0.276		0.630
<input type="checkbox"/>	80	3	3.555 3.535	3.126 3.008		0.375	0.327			0.300		0.630
<input type="checkbox"/>	100	4	4.555 4.535	4.087 3.965		0.421	0.368			0.337		0.748

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

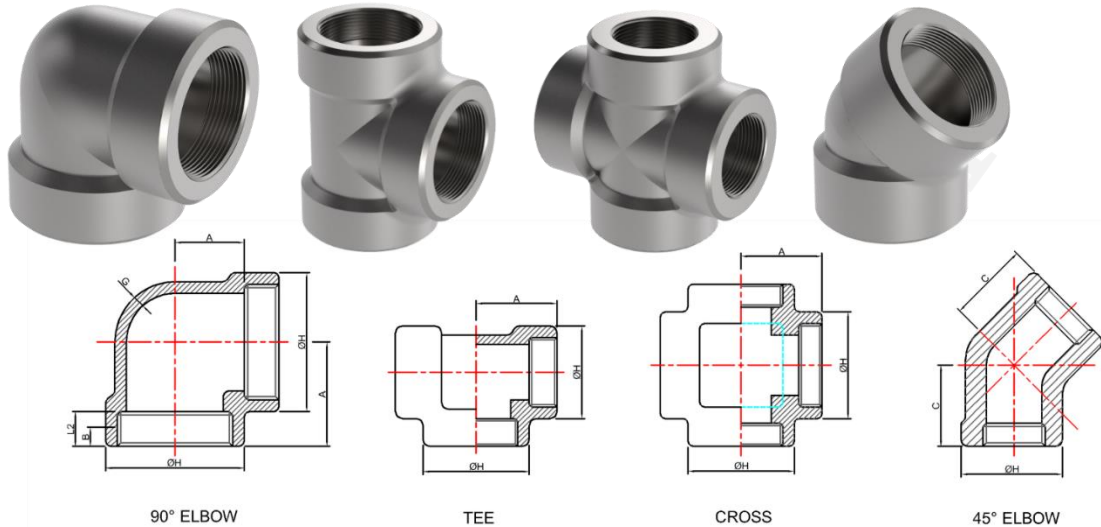


Project Name: _____
 Job #: _____

FORGED STEEL
 A182
 (90, X, T, &
 45's)

ASTM A182, FORGED STEEL

90° ELBOW ♦ CROSS ♥ TEES ♣ 45° ELBOW - THREADED



- Grade: T304L T316L
 Connection: Threaded
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

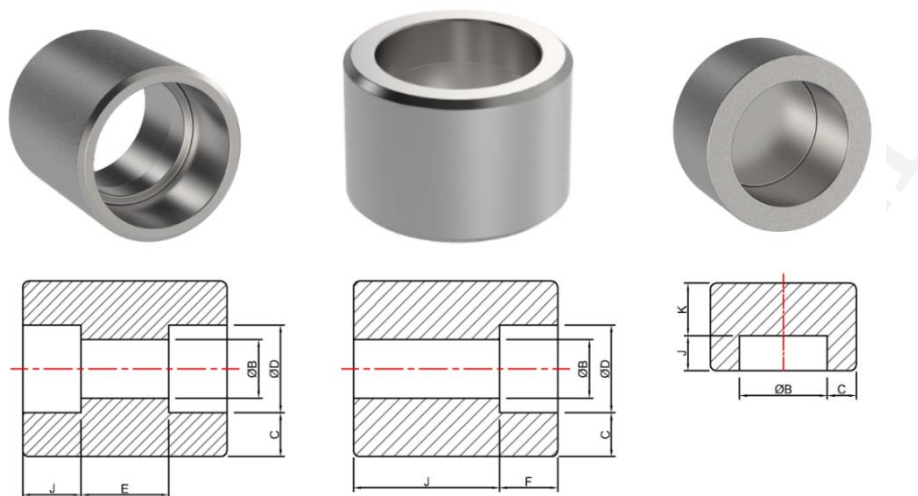
SELECT	DN	Nom. Pipe Size	Center To End Elbows, Tees, Cross A		Center to End 45° Elbow C		Outside Diameter of Band H		Minimum Wall Thickness G		Length of Thread Min. (1)	
			3000	6000	3000	6000	3000	6000	3000	6000	B	L2
<input type="checkbox"/>	6	1/8	0.827	0.984	0.669	.0.748	0.866	0.984	0.125	0.250	0.252	0.264
<input type="checkbox"/>	8	1/4	0.984	1.102	.0.748	0.866	0.984	1.299	0.130	0.260	0.319	0.402
<input type="checkbox"/>	10	3/8	1.102	1.299	0.866	0.984	1.299	1.496	0.138	0.275	0.358	0.409
<input type="checkbox"/>	15	1/2	1.299	1.496	0.984	1.102	1.496	1.811	0.161	0.321	0.429	0.535
<input type="checkbox"/>	20	3/4	1.496	1.732	1.102	1.299	1.811	2.205	0.170	0.336	0.500	0.547
<input type="checkbox"/>	25	1	1.732	2.008	1.299	1.378	2.205	2.441	0.196	0.391	0.579	0.681
<input type="checkbox"/>	32	1 1/4	2.008	2.362	1.378	1.693	2.441	2.953	0.208	0.417	0.669	0.709
<input type="checkbox"/>	40	1 1/2	2.362	2.520	1.693	1.732	2.953	3.307	0.219	0.436	0.701	0.724
<input type="checkbox"/>	50	2	2.520	3.268	1.732	2.047	3.307	4.016	0.281	0.476	0.748	0.756
<input type="checkbox"/>	65	2 1/2	3.268	3.740	2.047	2.520	4.016	4.764	0.301	0.602	0.929	1.138
<input type="checkbox"/>	80	3	3.740	4.173	2.520	3.110	4.764	5.748	0.348	0.655	1.020	1.201
<input type="checkbox"/>	100	4	4.488	4.488	3.110	3.110	5.984	5.984	0.440	0.735	1.091	1.299

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

Project Name: _____
Job #: _____

ASTM A182, FORGED STEEL

COUPLINGS ♦ HALF COUPLINGS ♥ CAPS - SOCKETWELD



COUPLINGS / HALF COUPLINGS / CAPS - SOCKET

- Grade: T304L T316L
 Connection: Socket weld
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

SELECT	DN	Nom. Pipe Size	Center to Bottom of Socket A				Laying Lengths		Tolerances ±			End Wall Thickness K Min.	
			90° Elbows Tees, Crosses		45° Elbows		Couplings E	Half Couplings F	A	E	F	Class Designation	
			Class Designation		Class Designation							3000	6000
			3000	6000	3000	6000	3000	6000					
<input type="checkbox"/>	6	1/8	0.433	0.433	0.315	0.315	0.256	0.630	0.039	0.059	0.039	0.189	0.252
<input type="checkbox"/>	8	1/4	0.433	0.531	0.315	0.315	0.256	0.630	0.039	0.059	0.039	0.189	0.252
<input type="checkbox"/>	10	3/8	0.531	0.610	0.315	0.433	0.256	0.689	0.059	0.118	0.059	0.189	0.252
<input type="checkbox"/>	15	1/2	0.610	0.748	0.433	0.512	0.374	0.886	0.059	0.118	0.059	0.252	0.311
<input type="checkbox"/>	20	3/4	0.748	0.886	0.512	0.551	0.374	0.945	0.059	0.118	0.059	0.252	0.311
<input type="checkbox"/>	25	1	0.886	1.063	0.551	0.689	0.492	1.122	0.079	0.157	0.079	0.378	0.441
<input type="checkbox"/>	32	1 1/4	1.063	1.260	0.689	0.807	0.492	1.181	0.079	0.157	0.079	0.378	0.441
<input type="checkbox"/>	40	1 1/2	1.260	1.496	0.807	1.004	0.492	1.260	0.079	0.157	0.079	0.441	0.500
<input type="checkbox"/>	50	2	1.496	1.614	1.004	1.122	0.748	1.614	0.079	0.157	0.079	0.500	0.618
<input type="checkbox"/>	65	2 1/2	1.614	-----	1.122	-----	0.748	1.693	0.098	0.197	0.098	0.618	0.748
<input type="checkbox"/>	80	3	2.244	-----	1.260	-----	0.748	1.752	0.098	0.197	0.098	0.748	0.882
<input type="checkbox"/>	100	4	2.618	-----	1.614	-----	0.748	1.890	0.098	0.197	0.098	0.882	1.118

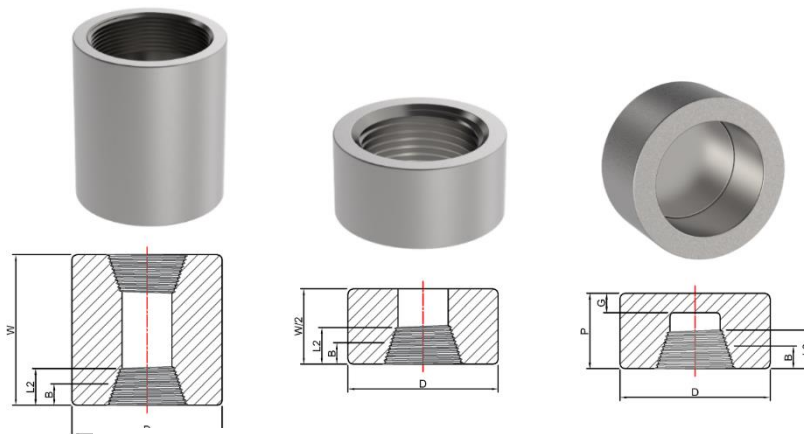
3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

Project Name: _____

Job #: _____

ASTM A182, FORGED STEEL

COUPLINGS ♦ HALF COUPLINGS ♥ CAPS - THREADED



COUPLINGS / HALF COUPLINGS / CAPS - THREADED

- Grade: T304L T316L
 Connection: Threaded
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

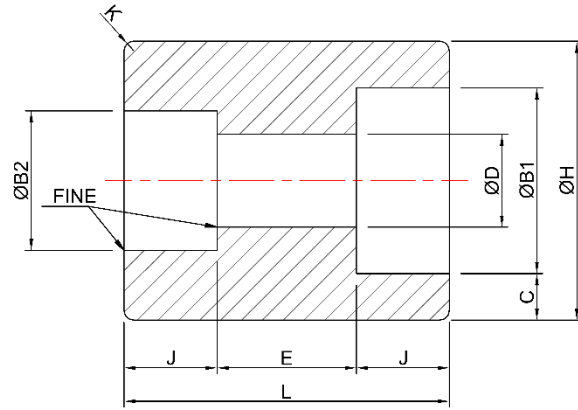
SELECT	DN	Nom. Pipe Size	End to End Couplings W		End to End Caps P		Outside Diameter D		Minimum Wall Thickness G Min.		Length of Thread Min. (1)	
			3000/6000	3000	6000	3000	6000	3000	6000	3000	6000	B
<input type="checkbox"/>	6	1/8	1.260	0.748	-----	0.630	0.899	0.189	-----	0.252	0.264	
<input type="checkbox"/>	8	1/4	1.378	0.984	1.063	0.748	0.984	0.189	0.252	0.319	0.402	
<input type="checkbox"/>	10	3/8	1.496	0.984	1.063	0.866	1.260	0.189	0.252	0.358	0.409	
<input type="checkbox"/>	15	1/2	1.890	1.260	1.299	1.102	1.496	0.252	0.311	0.429	0.535	
<input type="checkbox"/>	20	3/4	2.008	1.457	1.496	1.378	1.732	0.252	0.311	0.500	0.547	
<input type="checkbox"/>	25	1	2.362	1.614	1.693	1.732	2.244	0.382	0.441	0.579	0.681	
<input type="checkbox"/>	32	1 1/4	2.638	1.732	.811	2.244	2.520	0.382	0.441	0.669	0.709	
<input type="checkbox"/>	40	1 1/2	3.110	1.732	1.890	2.520	2.992	0.441	0.500	0.701	0.724	
<input type="checkbox"/>	50	2	3.386	1.890	2.008	2.992	3.622	0.500	0.618	0.748	0.756	
<input type="checkbox"/>	65	2 1/2	3.622	2.362	2.520	3.622	4.252	0.618	0.748	0.929	1.138	
<input type="checkbox"/>	80	3	4.252	2.559	2.677	4.252	5.000	0.748	0.882	1.020	1.201	
<input type="checkbox"/>	100	4	4.764	2.677	2.963	5.512	6.260	0.882	1.118	1.091	1.299	

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

Project Name: _____
 Job #: _____

**FORGED STEEL
 A182
 (Red Cplg)**

ASTM A182, FORGED STEEL REDUCING COUPLING - SOCKETWELD



Grade: T304L T316L
 Connection: Socket weld
 Source: Import Domestic BAA AIS

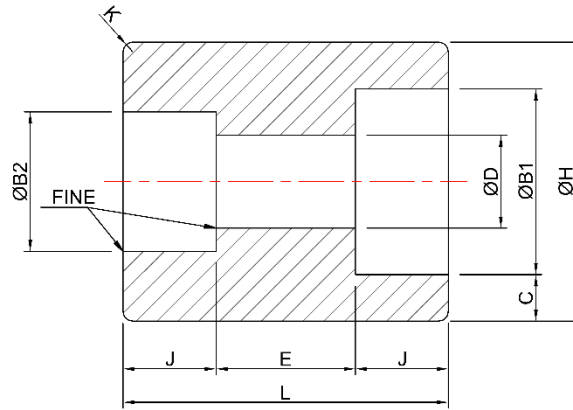
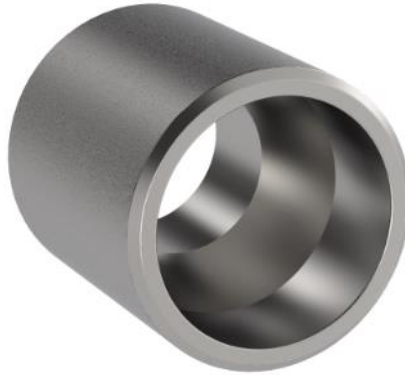
DIMENSIONS

UOM: Inches/LBS

SELECT	SIZE	B1	B2	D	C (Min)	H (Min)	J	E	L
<input type="checkbox"/>	¼ X ⅛	0.56	0.43	0.27	0.15	0.86	0.41	0.26	1.08
<input type="checkbox"/>	⅜ X ⅛	0.70	0.43	0.27	0.16	1.02	0.41	0.26	1.12
<input type="checkbox"/>	⅜ X ¼	0.70	0.56	0.37	0.16	1.02	0.41	0.26	1.12
<input type="checkbox"/>	½ X ⅛	0.86	0.43	0.27	0.19	1.23	0.49	0.37	1.36
<input type="checkbox"/>	½ X ¼	0.86	0.56	0.37	0.19	1.23	0.49	0.37	1.36
<input type="checkbox"/>	½ X ⅜	0.86	0.70	0.50	0.19	1.23	0.49	0.37	1.36
<input type="checkbox"/>	¾ X ⅛	1.07	0.43	0.27	0.19	1.46	0.55	0.37	1.48
<input type="checkbox"/>	¾ X ¼	1.07	0.56	0.37	0.19	1.46	0.55	0.37	1.48
<input type="checkbox"/>	¾ X ⅜	1.07	0.70	0.50	0.19	1.46	0.55	0.37	1.48
<input type="checkbox"/>	¾ X ½	1.07	0.86	0.62	0.19	1.46	0.55	0.37	1.48
<input type="checkbox"/>	1 X ⅛	1.34	0.43	0.27	0.22	1.79	0.59	0.49	1.69
<input type="checkbox"/>	1 X ¼	1.34	0.56	0.37	0.22	1.79	0.59	0.49	1.69
<input type="checkbox"/>	1 X ⅜	1.34	0.70	0.50	0.22	1.79	0.59	0.49	1.69
<input type="checkbox"/>	1 X ½	1.34	0.86	0.62	0.22	1.79	0.59	0.49	1.69
<input type="checkbox"/>	1 X ¾	1.34	1.07	0.83	0.22	1.79	0.59	0.49	1.69
<input type="checkbox"/>	1 ¼ X ⅛	1.69	0.43	0.27	0.24	2.17	0.67	0.49	1.85
<input type="checkbox"/>	1 ¼ X ¼	1.69	0.56	0.37	0.24	2.17	0.67	0.49	1.85
<input type="checkbox"/>	1 ¼ X ⅜	1.69	0.70	0.50	0.24	2.17	0.67	0.49	1.85
<input type="checkbox"/>	1 ¼ X ½	1.69	0.86	0.62	0.24	2.17	0.67	0.49	1.85
<input type="checkbox"/>	1 ¼ X ¾	1.69	1.07	0.83	0.24	2.17	0.67	0.49	1.85
<input type="checkbox"/>	1 ¼ X 1	1.69	1.34	1.05	0.24	2.17	0.67	0.49	1.85

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

ASTM A182, FORGED STEEL REDUCING COUPLING - SOCKETWELD



- Grade: T304L T316L
 Connection: Socket weld
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

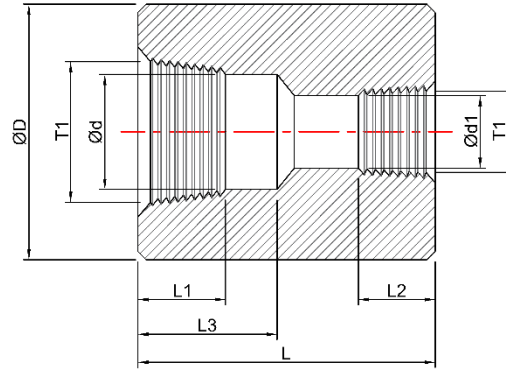
SELECT	SIZE	B1	B2	D	C (Min)	H (Min)	J	E	L
<input type="checkbox"/>	1 ½ x ¼	1.93	0.43	0.27	0.25	2.43	0.69	0.49	1.89
<input type="checkbox"/>	1 ½ x ¼	1.93	0.56	0.37	0.25	2.43	0.69	0.49	1.89
<input type="checkbox"/>	1 ½ x ⅜	1.93	0.70	0.50	0.25	2.43	0.69	0.49	1.89
<input type="checkbox"/>	1 ½ x ½	1.93	0.86	0.62	0.25	2.43	0.69	0.49	1.89
<input type="checkbox"/>	1 ½ x ¾	1.93	1.07	0.83	0.25	2.43	0.69	0.49	1.89
<input type="checkbox"/>	1 ½ x 1	1.93	1.34	1.05	0.25	2.43	0.69	0.49	1.89
<input type="checkbox"/>	1 ½ x 1 ¼	1.93	1.69	1.38	0.25	2.43	0.69	0.49	1.89
<input type="checkbox"/>	2 x ⅛	2.42	0.43	0.27	0.27	2.96	0.87	0.75	2.48
<input type="checkbox"/>	2 x ¼	2.42	0.56	0.37	0.27	2.96	0.87	0.75	2.48
<input type="checkbox"/>	2 x ⅜	2.42	0.70	0.50	0.27	2.96	0.87	0.75	2.48
<input type="checkbox"/>	2 x ½	2.42	0.86	0.62	0.27	2.96	0.87	0.75	2.48
<input type="checkbox"/>	2 x ¾	2.42	1.07	0.83	0.27	2.96	0.87	0.75	2.48
<input type="checkbox"/>	2 x 1	2.42	1.34	1.05	0.27	2.96	0.87	0.75	2.48
<input type="checkbox"/>	2 x 1 ¼	2.42	1.69	1.38	0.27	2.96	0.87	0.75	2.48
<input type="checkbox"/>	2 x 1 ½	2.42	1.93	1.61	0.27	2.96	0.87	0.75	2.48
<input type="checkbox"/>	2 ½ x 1 ¼	2.92	1.69	1.38	0.35	3.61	0.87	0.75	2.48
<input type="checkbox"/>	2 ½ x 1 ½	2.92	1.93	1.61	0.35	3.61	0.87	0.75	2.48
<input type="checkbox"/>	2 ½ x 2	2.92	2.42	2.07	0.35	3.61	0.87	0.75	2.48
<input type="checkbox"/>	3 x 1 ½	3.54	1.93	1.61	0.38	4.30	0.87	0.75	2.48
<input type="checkbox"/>	3 x 2	3.54	2.42	2.07	0.38	4.30	0.87	0.75	2.48
<input type="checkbox"/>	3 x 2 ½	3.54	2.92	2.47	0.38	4.30	0.87	0.75	2.48
<input type="checkbox"/>	4 x 2	4.54	2.42	2.07	0.42	5.39	0.87	0.75	2.48
<input type="checkbox"/>	4 x 2 ½	4.54	2.92	2.47	0.42	5.39	0.87	0.75	2.48
<input type="checkbox"/>	4 x 3	4.54	3.54	3.07	0.42	5.39	0.87	0.75	2.48

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

Project Name: _____
 Job #: _____

FORGED STEEL
 A182
 (Red Cplg)

ASTM A182, FORGED STEEL REDUCING COUPLING - THREADED



- Grade: T304L T316L
 Connection: Threaded
 Source: Import Domestic BAA AIS

DIMENSIONS

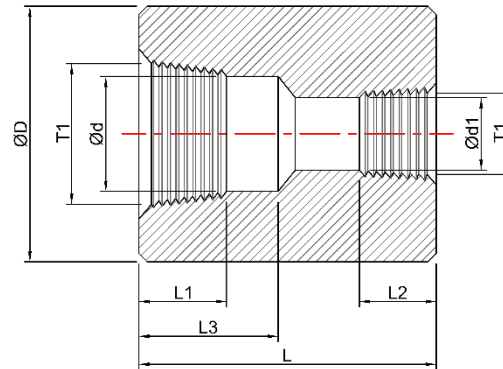
UOM: Inches/LBS

SELECT	SIZE	T1-n	T2-n	L	D	d	d1	L1	L2	L3
<input type="checkbox"/>	¼ x ⅛	0.71	1.06	1.38	0.75	0.44	0.32	0.50	0.35	0.69
<input type="checkbox"/>	⅜ x ⅛	0.71	1.06	1.50	0.87	0.57	0.32	0.52	0.35	0.75
<input type="checkbox"/>	⅜ x ¼	0.71	0.71	1.50	0.87	0.57	0.44	0.52	0.50	0.75
<input type="checkbox"/>	½ x ¼	0.55	0.71	1.89	1.10	0.68	0.44	0.68	0.50	0.94
<input type="checkbox"/>	½ x ⅜	0.55	0.71	1.89	1.10	0.68	0.57	0.68	0.52	0.94
<input type="checkbox"/>	¾ x ⅜	0.55	0.71	2.01	1.38	0.89	0.57	0.70	0.52	1.00
<input type="checkbox"/>	¾ x ½	0.55	0.55	2.01	1.38	0.89	0.68	0.70	0.68	1.00
<input type="checkbox"/>	1 x ⅜	0.45	0.71	2.36	1.73	1.12	0.57	0.83	0.52	1.18
<input type="checkbox"/>	1 x ½	0.45	0.55	2.36	1.73	1.12	0.68	0.83	0.68	1.18
<input type="checkbox"/>	1 x ¾	0.45	0.55	2.36	1.73	1.12	0.89	0.83	0.70	1.18
<input type="checkbox"/>	1 ¼ x ½	0.45	0.55	2.64	2.24	1.46	0.68	0.85	0.68	1.32
<input type="checkbox"/>	1 ¼ x ¾	0.45	0.55	2.64	2.24	1.46	0.89	0.85	0.70	1.32
<input type="checkbox"/>	1 ¼ x 1	0.45	0.45	2.64	2.24	1.46	1.12	0.85	0.83	1.32
<input type="checkbox"/>	1 ½ x ½	0.45	0.55	3.11	2.52	1.70	0.68	0.85	0.85	1.56
<input type="checkbox"/>	1 ½ x ¾	0.45	0.55	3.11	2.52	1.70	0.89	0.85	0.70	1.56
<input type="checkbox"/>	1 ½ x 1	0.45	0.45	3.11	2.52	1.70	1.12	0.85	0.83	1.56
<input type="checkbox"/>	1 ½ x 1 ¼	0.45	0.45	3.11	2.52	1.70	1.46	0.85	0.85	1.56
<input type="checkbox"/>	2 x ¾	0.45	0.55	3.39	2.99	2.17	0.89	0.87	0.70	1.69
<input type="checkbox"/>	2 x 1	0.45	0.45	3.39	2.99	2.17	1.12	0.87	0.83	1.69
<input type="checkbox"/>	2 x 1 ¼	0.45	0.45	3.39	2.99	2.17	1.46	0.87	0.85	1.69
<input type="checkbox"/>	2 x 1 ½	0.45	0.45	3.39	2.99	2.17	1.70	0.87	0.85	1.69

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

Project Name: _____
Job #: _____

ASTM A182, FORGED STEEL REDUCING COUPLING - THREADED



Grade: T304L T316L
 Connection: Threaded
 Source: Import Domestic BAA AIS

DIMENSIONS

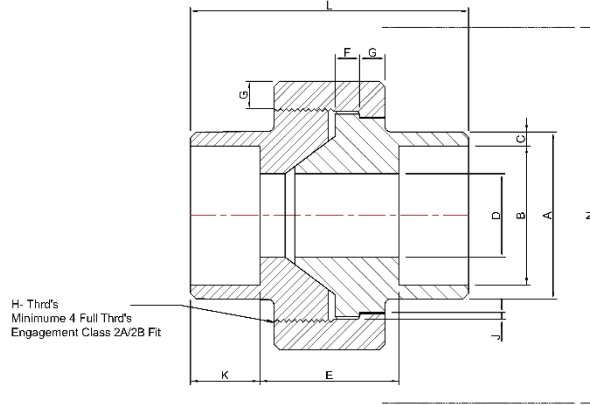
UOM: Inches/LBS

SELECT	SIZE	T1-n	T2-n	L	D	d	d1	L1	L2	L3
<input type="checkbox"/>	2 ½ x 1	0.31	0.45	3.62	3.62	2.58	1.12	1.18	0.83	1.81
<input type="checkbox"/>	2 ½ x 1 ¼	0.31	0.45	3.62	3.62	2.58	1.46	1.18	0.85	1.81
<input type="checkbox"/>	2 ½ x 1 ½	0.31	0.45	3.62	3.62	2.58	1.70	1.18	0.85	1.81
<input type="checkbox"/>	2 ½ x 2	0.31	0.45	3.62	3.62	2.58	2.17	1.18	0.87	1.81
<input type="checkbox"/>	3 x 1	0.31	0.45	4.25	4.25	3.21	1.12	1.27	0.83	2.13
<input type="checkbox"/>	3 x 1 ¼	0.31	0.45	4.25	4.25	3.21	1.46	1.27	0.85	2.13
<input type="checkbox"/>	3 x 1 ½	0.31	0.45	4.25	4.25	3.21	1.70	1.27	0.85	2.13
<input type="checkbox"/>	3 x 2	0.31	0.45	4.25	4.25	3.21	2.17	1.27	0.87	2.13
<input type="checkbox"/>	3 x 2 ½	0.31	0.31	4.25	4.25	3.21	2.58	1.27	1.18	2.13
<input type="checkbox"/>	4 x 1 ¼	0.31	0.45	4.76	5.51	4.20	1.46	1.34	0.85	2.38
<input type="checkbox"/>	4 x 1 ½	0.31	0.45	4.76	5.51	4.20	1.70	1.34	0.85	2.38
<input type="checkbox"/>	4 x 2	0.31	0.45	4.76	5.51	4.20	2.17	1.34	0.87	2.38
<input type="checkbox"/>	4 x 2 ½	0.31	0.31	4.76	5.51	4.20	2.58	1.34	1.18	2.38

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

ASTM A182, FORGED STEEL

UNIONS - SOCKETWELD



- Grade: T304L T316L
 Connection: Socket weld
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

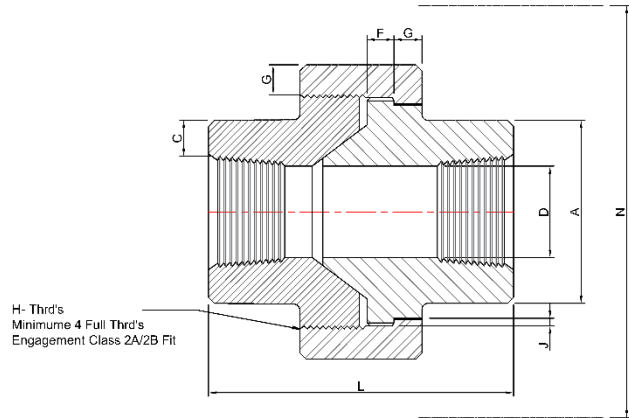
SELECT	Nom. Pipe Size	Pipe End Min. A	Socket Bore Dia. B	Socket Wall Min. C	Water Way Bore D	Laying Length E	Male Flange Min. F	Nut Min. G	Thrds. Per 25.4mm Max. H	Bearing Min. J	Depth of Socket Min. K	Length Assem. L	Clear Assem. Nut N.
<input type="checkbox"/>	1/8	0.858	0.430 0.420	0.095	0.269 0.253	0.882 0.748	0.125	0.125	0.630	0.049	0.378	1.630	1.929
<input type="checkbox"/>	1/4	0.858	0.560 0.550	0.119	0.388 0.372	0.882 0.748	0.125	0.125	0.630	0.049	0.378	1.630	1.929
<input type="checkbox"/>	3/8	1.020	0.700 0.690	0.126	0.548 0.532	1.059 0.811	0.135	0.135	0.551	0.054	0.378	1.811	2.165
<input type="checkbox"/>	1/2	1.228	0.860 0.850	0.147	0.688 0.672	1.059 0.811	0.145	0.145	0.551	0.059	0.378	1.929	2.244
<input type="checkbox"/>	3/4	1.461	1.070 1.060	0.154	0.858 0.842	1.252 1.000	0.160	0.160	0.433	0.066	0.500	2.240	2.638
<input type="checkbox"/>	1	1.791	1.340 1.330	0.179	1.108 1.092	1.350 1.031	0.180	0.175	0.433	0.073	0.500	2.441	3.110
<input type="checkbox"/>	1 1/4	2.161	1.680 1.670	0.191	1.408 1.392	1.598 1.280	0.210	0.205	0.433	0.084	0.500	2.799	3.701
<input type="checkbox"/>	1 1/2	2.421	1.920 1.910	0.200	1.638 1.622	1.661 1.339	0.230	0.220	0.394	0.091	0.500	3.008	4.370
<input type="checkbox"/>	2	2.961	2.420 2.410	0.218	2.068 2.052	1.791 1.469	0.260	0.252	0.394	0.106	0.622	3.390	5.197
<input type="checkbox"/>	2 1/2	3.610	2.920 2.900	0.276	2.548 2.532	2.429 2.051	0.295	0.280	0.315	0.121	0.622	4.031	5.827
<input type="checkbox"/>	3	4.299	3.550 3.530	0.300	3.058 3.042	2.512 2.110	0.325	0.325	0.315	0.139	0.622	4.291	6.890

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

Project Name: _____
 Job #: _____

**FORGED STEEL
 A182
 (Uni)**

ASTM A182, FORGED STEEL UNIONS - THREADED



Grade: T304L T316L
 Connection: Threaded
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

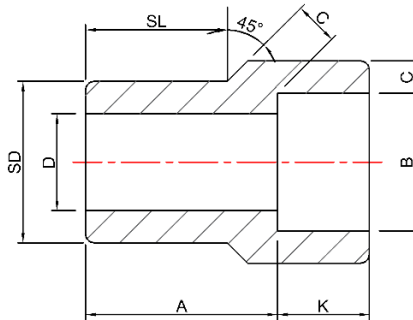
SELECT	Nom. Pipe Size	Pipe End Min. A	Wall Min. C	Water Way Bore D	Male Flange Min. F	Nut Min. G	Thrds. Per 25.4mm Max. H	Bearing Min. J	Length Assem. L	Clear Assem. Nut N.
<input type="checkbox"/>	1/8	0.579	0.095	0.269 0.253	0.125	0.126	0.630	0.049	1.630	1.929
<input type="checkbox"/>	1/4	0.748	0.119	0.388 0.372	0.125	0.126	0.630	0.049	1.630	1.929
<input type="checkbox"/>	3/8	0.902	0.126	0.548 0.532	0.135	0.134	0.551	0.054	1.811	2.165
<input type="checkbox"/>	1/2	1.091	0.147	0.688 0.672	0.145	0.146	0.551	0.059	1.929	2.244
<input type="checkbox"/>	3/4	1.319	0.154	0.858 0.842	0.160	0.161	0.433	0.066	2.240	2.638
<input type="checkbox"/>	1	1.630	0.179	1.108 1.092	0.180	0.173	0.433	0.073	2.441	3.110
<input type="checkbox"/>	1 1/4	1.988	0.191	1.408 1.392	0.210	0.205	0.433	0.084	2.799	3.701
<input type="checkbox"/>	1 1/2	2.252	0.200	1.638 1.622	0.230	0.220	0.394	0.091	3.008	4.370
<input type="checkbox"/>	2	2.760	0.218	2.068 2.052	0.260	0.252	0.394	0.106	3.390	5.197
<input type="checkbox"/>	2 1/2	3.358	0.276	2.548 2.532	0.295	0.280	0.315	0.121	4.031	5.827
<input type="checkbox"/>	3	4.031	0.300	3.058 3.042	0.325	0.315	0.315	0.139	4.291	6.890

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

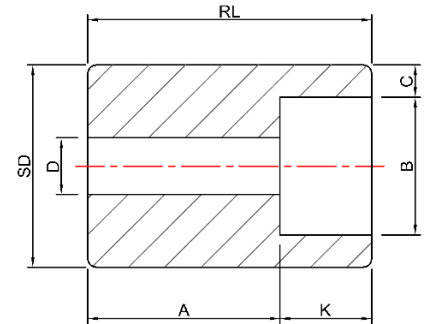
Project Name: _____
 Job #: _____

FORGED STEEL
 A182
 (Red Insert)

ASTM A182, FORGED STEEL REDUCING INSERTS



TYPE 1



TYPE 2

Grade: T304L T316L
 Connection: Socket weld
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

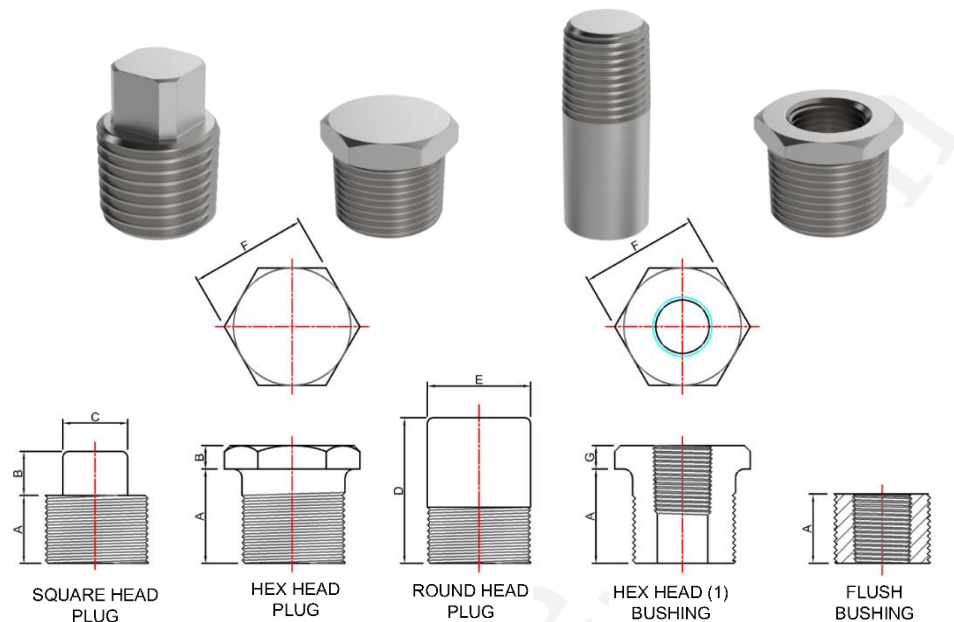
SELECT	Nom. Pipe Size	Type (2)		Socket		Shank Dia. SD	Laying Length A		Bore D		Wall (Min) C		Length					
				Dia.	Depth (Min)		3M	6M	3M	6M	3M	6M	3M	6M	SL		RL (Min)	
															B	K	3M	6M
<input type="checkbox"/>	3/8 x 1/4	1	1	0.56	0.39	0.68	0.75	0.83	0.35	0.26	0.15	0.18	0.55	0.63	----	----		
<input type="checkbox"/>	1/2 x 3/8	1	1	0.70	0.39	0.84	0.83	0.91	0.49	0.35	0.16	0.20	0.63	0.63	----	----		
<input type="checkbox"/>	1/2 x 1/4	1	1	0.56	0.39	0.84	0.83	0.83	0.35	0.26	0.15	0.18	0.63	0.63	----	----		
<input type="checkbox"/>	3/4 x 1/2	1	1	0.86	0.39	1.05	0.87	0.98	0.63	0.47	0.18	0.24	0.67	0.75	----	----		
<input type="checkbox"/>	3/4 x 3/8	2	1	0.70	0.39	1.05	0.63	0.87	0.49	0.35	0.16	0.20	----	0.75	1.06	----		
<input type="checkbox"/>	3/4 x 1/4	2	2	0.56	0.39	1.05	0.71	0.87	0.35	0.26	0.15	0.18	----	----	1.06	1.26		
<input type="checkbox"/>	1 x 3/4	1	1	1.08	0.51	1.31	0.94	1.10	0.83	0.61	0.19	0.27	0.75	0.83	----	----		
<input type="checkbox"/>	1 x 1/2	2	1	0.86	0.39	1.31	0.63	1.10	0.63	0.47	0.18	0.24	----	0.83	1.10	----		
<input type="checkbox"/>	1 x 3/8	2	2	0.70	0.39	1.31	0.71	0.87	0.49	0.35	0.16	0.20	----	----	1.10	1.30		
<input type="checkbox"/>	1 x 1/4	2	2	0.56	0.39	1.31	0.75	0.94	0.35	0.26	0.15	0.18	----	----	1.10	1.30		
<input type="checkbox"/>	1 1/4 x 1	1	1	1.34	0.51	1.66	0.98	1.18	1.04	0.81	0.22	0.31	0.83	0.87	----	----		
<input type="checkbox"/>	1 1/4 x 3/4	2	2	1.08	0.51	1.66	0.71	0.83	0.83	0.61	0.19	0.27	----	----	1.26	1.38		
<input type="checkbox"/>	1 1/4 x 1/2	2	2	0.86	0.39	1.66	0.75	0.87	0.63	0.47	0.18	0.24	----	----	1.26	1.38		
<input type="checkbox"/>	1 1/4 x 3/8	2	2	0.70	0.39	1.66	0.83	0.94	0.49	0.35	0.16	0.20	----	----	1.26	1.38		
<input type="checkbox"/>	1 1/4 x 1/4	2	2	0.56	0.39	1.66	0.87	0.98	0.35	0.26	0.15	0.18	----	----	1.26	1.38		
<input type="checkbox"/>	1 1/2 x 1 1/4	1	1	1.69	0.51	1.90	1.10	1.38	1.38	1.15	0.24	0.31	0.87	0.98	----	----		
<input type="checkbox"/>	1 1/2 x 1	2	1	1.34	0.51	1.90	0.71	1.13	1.04	0.81	0.22	0.3	----	0.98	1.30	----		
<input type="checkbox"/>	1 1/2 x 3/4	2	2	1.08	0.51	1.90	0.75	0.98	0.83	0.61	0.19	0.27	----	----	1.30	1.57		
<input type="checkbox"/>	1 1/2 x 1/2	2	2	0.86	0.39	1.90	0.83	1.06	0.63	0.47	0.18	0.24	----	----	1.30	1.57		
<input type="checkbox"/>	1 1/2 x 3/8	2	2	0.70	0.39	1.90	0.87	1.10	0.49	0.35	0.16	0.20	----	----	1.30	1.57		
<input type="checkbox"/>	2 x 1 1/2	1	1	1.93	0.51	2.38	1.26	1.54	1.61	1.34	0.25	0.35	0.98	1.10	----	----		
<input type="checkbox"/>	2 x 1 1/4	2	2	1.69	0.51	2.38	0.83	0.94	1.38	1.15	0.24	0.31	----	----	1.50	1.61		
<input type="checkbox"/>	2 x 1	2	2	1.34	0.51	2.38	0.87	0.98	1.04	0.83	0.22	0.31	----	----	1.50	1.61		
<input type="checkbox"/>	2 x 3/4	2	2	1.08	0.51	2.38	0.94	1.06	0.83	0.61	0.19	0.27	----	----	1.50	1.61		
<input type="checkbox"/>	2 x 1/2	2	2	0.86	0.39	2.37	0.98	1.10	0.62	0.47	0.18	0.23	----	----	1.50	1.61		

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

Project Name: _____
Job #: _____

ASTM A182, FORGED STEEL

SQUARE HEAD PLUGS ♥ HEX HEAD PLUGS ♦ ROUND HEAD PLUGS ♠ HEX HEAD BUSHING ♣ FLUSH BUSHING



Grade: T304L T316L
 Connection: Threaded
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

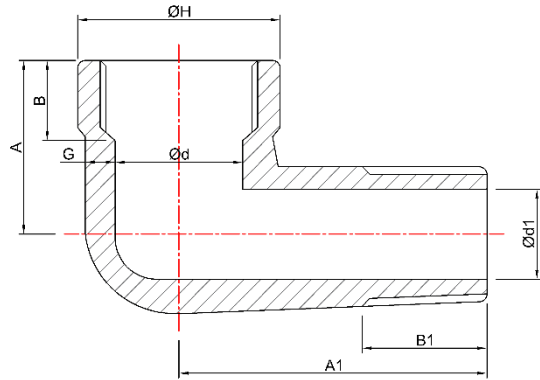
SELECT	DN	Nom. Pipe Size	Length (Min) A	Plugs Square Head		Plugs Round Head		Hex Plugs & Bushings		
				Height of Square (Min) B	Width Flats (Min) C	Nominal Diameter of Head E	Length (Min) D	Width Flats (Nom) F	Hex Height (Min)	
									Bushing G	Plug H
<input type="checkbox"/>	6	1/8	0.394	0.236	0.276	0.394	1.378	0.433	----	0.236
<input type="checkbox"/>	8	1/4	0.433	0.236	0.394	0.551	1.614	0.630	0.118	0.236
<input type="checkbox"/>	10	3/8	0.512	0.315	0.433	0.709	1.614	0.709	0.157	0.315
<input type="checkbox"/>	15	1/2	0.551	0.394	0.551	0.827	1.732	0.866	0.197	0.315
<input type="checkbox"/>	20	3/4	0.630	0.433	0.630	1.063	1.732	1.063	0.236	0.394
<input type="checkbox"/>	25	1	0.748	0.512	0.827	1.299	2.008	1.417	0.236	0.394
<input type="checkbox"/>	32	1 1/4	0.827	0.551	0.945	1.693	2.008	1.811	0.276	0.551
<input type="checkbox"/>	40	1 1/2	0.827	0.630	1.102	1.890	2.008	1.969	0.315	0.630
<input type="checkbox"/>	50	2	0.866	0.709	1.260	2.362	2.520	2.559	0.354	0.709
<input type="checkbox"/>	65	2 1/2	1.063	0.748	1.417	2.874	2.756	2.953	0.394	0.748
<input type="checkbox"/>	80	3	1.102	0.827	1.614	3.504	2.756	3.543	0.394	0.827
<input type="checkbox"/>	100	4	1.260	0.984	2.559	4.488	2.992	4.528	0.512	0.984

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79

Project Name: _____
 Job #: _____

FORGED STEEL
 A182
 (STR90)

ASTM A182, FORGED STEEL STREET 90° ELBOW



- Grade: T304L T316L
 Connection: Threaded
 Source: Import Domestic BAA AIS

DIMENSIONS

UOM: Inches/LBS

3000 LBS

6000 LBS

SELECT	Nom. Pipe Size	H	A	A1	d	d1	G (Min)	B (Min)	B1 (Min)	Nom. Pipe Size	H	A	A1	d	d1	G (Min)	B (Min)	B1 (Min)
<input type="checkbox"/>	1/4	0.984	0.874	1.248	0.441	0.276	0.130	0.315	0.406	1/4	1.299	1.000	1.500	0.441	0.118	0.260	0.315	0.406
<input type="checkbox"/>	3/8	1.299	1.000	1.500	0.571	0.354	0.138	0.354	0.409	3/8	1.496	1.126	1.622	0.571	0.185	0.275	0.354	0.409
<input type="checkbox"/>	1/2	1.496	1.126	1.622	0.618	0.512	0.161	0.433	0.535	1/2	1.811	1.374	1.874	0.618	0.248	0.321	0.433	0.535
<input type="checkbox"/>	3/4	1.811	1.374	1.874	0.823	0.630	0.170	0.492	0.543	3/4	2.205	1.752	2.252	0.823	0.437	0.336	0.492	0.543
<input type="checkbox"/>	1	2.205	1.752	2.268	1.047	0.787	0.196	0.571	0.681	1	2.441	2.000	2.626	1.047	0.598	0.391	0.571	0.681
<input type="checkbox"/>	1 1/4	2.441	2.000	2.626	1.378	1.102	0.208	0.669	0.709	1 1/4	2.441	2.000	2.626	1.378	1.102	0.208	0.669	0.709
<input type="checkbox"/>	1 1/2	2.953	2.126	2.811	1.610	1.181	0.219	0.709	0.724	1 1/2	3.307	2.500	3.307	1.610	1.098	0.436	0.709	0.724
<input type="checkbox"/>	2	3.307	2.500	3.307	2.067	1.575	0.281	0.748	0.760									

3000# Forged 316 stainless steel material conforms to ASME A182
 Forged stainless steel fitting dimensions conform to ASME B16.11
 NPT threads conform to ASME B1.20.1
 Socket weld fittings conform to ASME B16.11
 Forged stainless union conform to MSS SP-83
 Forged stainless outlets conform to MSS SP-97
 Forged stainless socket weld inserts conform to MSS SP-79