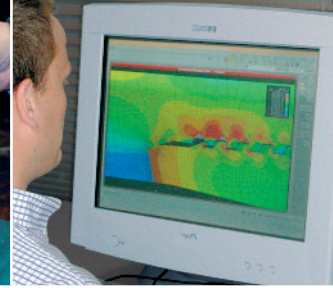
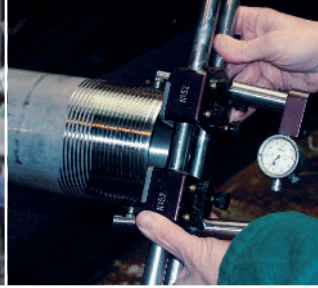


**VAM SLIJ-II**

# The Semi-Flush connection from a NAME you trust



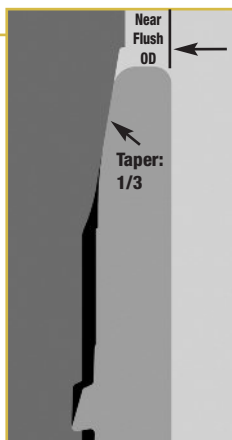
*VAM® 21*  
*VAM® TOP*  
*VAM® TOP HC*  
*VAM® TOP HT*  
**■** *VAM® SLIJ II*  
*VAM® FJL*  
*VAM® HTF*  
*DINO VAM®*  
*BIG OMEGA™*  
*VAM® TOP FE*  
*VAM® HW ST*  
*VAM® MUST*

# VAM SLI-III

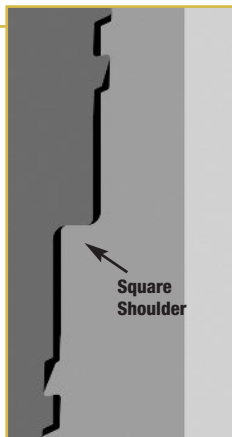
Slimline integral joint casing connection



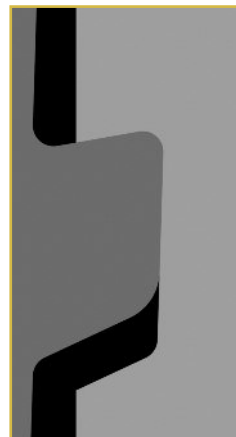
External Seal



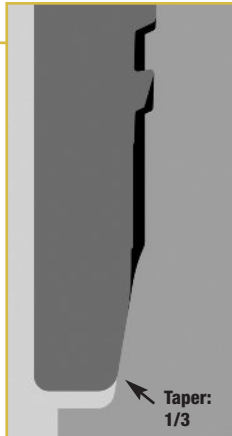
Middle Shoulder



Thread Form



Internal Seal



Joint Yield Strengths are calculated from the minimum specified material yield strength and the critical joint cross sectional area. pin or box, as appropriate.

Size (OD)	Nominal weight	Wall thickness		Inside diameter	Drift diameter	Pipe body section	Box O.D.	Pin I.D.	Make-up loss	Threads per inch	Joint Efficiency	Joint Yield Strength (1000 lb)				
		in.	mm.									in.	in.	sq. in.	in.	in.
4 1/2 114.30	15.10	0.337	8.56	3.826	3.701	4.407	4.646	3.765	4.440	8	70.9	250	281	297	344	390
	17.00	0.380	9.65	3.740	3.615	4.918	4.646	3.679	4.473	8	73.7	290	326	344	399	453
	18.90	0.430	10.92	3.640	3.515	5.498	4.654	3.579	5.243	7	74.2	326	367	388	449	510
	21.50	0.500	12.70	3.500	3.375	6.283	4.661	3.439	5.728	7	75.6	380	428	451	523	594
5 127.00	18.00	0.362	9.19	4.276	4.151	5.275	5.098	4.216	4.557	7	71.6	302	340	359	415	472
	20.30	0.408	10.36	4.184	4.059	5.886	5.136	4.124	4.810	7	75.1	354	398	420	486	553
	20.80	0.422	10.72	4.156	4.031	6.069	5.146	4.096	4.857	7	76.1	370	416	439	508	577
	21.40	0.437	11.10	4.126	4.001	6.264	5.158	4.066	5.050	7	77.1	386	435	459	531	604
	23.20	0.478	12.14	4.044	3.919	6.791	5.190	3.984	5.155	6	77.2	419	472	498	577	655
	24.10	0.500	12.70	4.000	3.875	7.069	5.193	3.940	5.213	6	77.4	437	492	519	601	684
	26.70	0.562	14.27	3.876	3.751	7.836	5.203	3.816	5.505	6	77.6	486	547	578	669	760
	29.20	0.625	15.88	3.750	3.625	8.590	5.214	3.690	5.813	6	77.8	535	602	635	735	836
5 1/2 139.70	20.00	0.361	9.17	4.778	4.653	5.828	5.594	4.719	4.539	7	70.8	330	371	392	454	516
	23.00	0.415	10.54	4.670	4.545	6.630	5.635	4.611	4.861	7	74.8	397	446	471	545	620
	23.80	0.437	11.10	4.626	4.501	6.951	5.653	4.567	5.076	7	76.3	424	477	504	583	663
	26.00	0.476	12.09	4.548	4.423	7.513	5.678	4.489	5.346	7	77.6	467	525	554	642	729
	26.80	0.500	12.70	4.500	4.375	7.854	5.706	4.441	5.420	6	78.1	491	552	583	675	767
	28.40	0.530	13.46	4.440	4.315	8.275	5.719	4.381	5.495	6	78.6	520	585	618	716	813
	29.70	0.562	14.27	4.376	4.251	8.718	5.733	4.317	5.579	6	79.2	552	621	656	760	863
	32.00	0.612	15.54	4.276	4.151	9.398	5.742	4.217	5.854	6	79.3	596	671	708	820	932
	32.60	0.625	15.88	4.250	4.125	9.572	5.748	4.191	5.886	6	79.6	610	686	724	838	953
6 5/8 168.28	28.00	0.417	10.59	5.791	5.666	8.133	6.751	5.735	5.061	7	73.4	478	537	567	657	746
	32.00	0.475	12.06	5.675	5.550	9.177	6.795	5.619	5.422	7	77.0	565	636	671	777	883
	33.00	0.500	12.70	5.625	5.500	9.621	6.822	5.569	5.480	6	76.9	592	666	703	814	925
	34.50	0.525	13.34	5.575	5.450	10.061	6.841	5.519	5.557	6	78.1	758	852	900	1042	1184
	36.70	0.562	14.27	5.501	5.376	10.705	6.869	5.444	5.823	6	79.5	681	766	809	937	1064
	40.20	0.625	15.88	5.375	5.250	11.781	6.920	5.319	6.107	5	80.3	757	852	899	1041	1183
	43.70	0.687	17.45	5.251	5.126	12.816	6.948	5.194	6.455	5	81.2	833	937	989	1145	1301
6 7/8 174.63	32.70	0.478	12.14	5.919	5.794	9.606	7.061	5.864	5.250	6	75.5	580	653	689	798	906
7 177.80	26.00	0.362	9.19	6.276	6.151	7.549	7.084	6.220	4.580	7	68.9	416	468	494	572	650
	29.00	0.408	10.36	6.184	6.059	8.449	7.119	6.128	5.050	7	72.6	491	552	583	675	767
	32.00	0.453	11.51	6.094	6.000*	9.317	7.162	6.053	5.176	6	74.2	553	622	657	761	864
	35.00	0.498	12.65	6.004	5.879	10.172	7.198	5.948	5.473	6	76.8	625	703	742	860	977
	38.00	0.540	13.72	5.920	5.795	10.959	7.231	5.864	5.776	6	79.0	692	779	822	952	1082
	41.00	0.590	14.99	5.820	5.695	11.881	7.264	5.764	5.917	6	80.0	761	856	903	1046	1188
	42.70	0.625	15.88	5.750	5.625	12.517	7.299	5.694	6.128	5	80.6	807	908	958	1110	1261
	44.00	0.640	16.26	5.720	5.595	12.788	7.309	5.664	6.157	5	80.8	827	930	982	1137	1292
	45.40	0.670	17.02	5.660	5.535	13.324	7.318	5.604	6.428	5	81.0	863	971	1025	1186	1348
	46.40	0.687	17.45	5.626	5.501	13.625	7.323	5.570	6.472	5	80.9	882	993	1048	1213	1378
	49.50	0.730	18.54	5.540	5.415	14.379	7.333	5.484	6.562	5	80.9	931	1047	1105	1280	1454
7 5/8 193.68	29.70	0.375	9.52	6.875	6.750	8.541	7.711	6.820	4.822	7	69.2	473	532	562	650	739
	33.70	0.430	10.92	6.765	6.640	9.720	7.754	6.711	5.169	7	73.2	569	641	676	783	890
	39.00	0.500	12.70	6.625	6.500	11.192	7.818	6.570	5.525	6	76.2	682	767	810	938	1065
	42.80	0.562	14.27	6.501	6.376	12.470	7.866	6.446	5.887	6	79.0	788	887	936	1084	1232
	45.30	0.595	15.11	6.435	6.310	13.141	7.889	6.380	6.157	6	80.1	842	948	1000	1158	1316
	47.10	0.625	15.88	6.375	6.250	13.744	7.920	6.320	6.168	5	80.1	881	991	1046	1211	1376
	51.20	0.687	17.45	6.251	6.126	14.974	7.962	6.196	6.539	5	81.4	975	1097	1158	1341	1524
	52.10	0.700	17.78	6.225	6.100	15.229	7.967	6.170	6.770	5	81.6	994	1118	1180	1366	1553
	52.80	0.712	18.08	6.201	6.076	15.463	7.976	6.146	6.802	5	82.0	1014	1141	1204	1394	1584
	55.30	0.750	19.05	6.125	6.000	16.199	7.989	6.070	6.899	5	82.4	1068	1201	1268	1468	1668
59.20	0.812	20.62	6.001	5.876	17.380	7.991	5.946	7.214	5	81.3	1130	1271	1342	1554	1766	
7 3/4 196.85	46.10	0.595	15.11	6.560	6.500*	13.374	8.019	6.555	6.128	5	78.8	843	948	1001	1159	1317
	46.90	0.615	15.62	6.520	6.395	13.785	8.036	6.465	6.154	5	79.5	877	987	1041	1206	1370
	47.60	0.625	15.88	6.500	6.375	13.990	8.045	6.446	6.167	5	80.0	895	1007	1063	1230	1398
	48.60	0.640	16.26	6.470	6.345	14.296	8.056	6.415	6.413	5	80.5	921	1036	1094	1266	1439
8 5/8 219.08	36.00	0.400	10.16	7.825	7.700	10.336	8.721	7.772	5.083	7	70.0	579	651	687	796	904
	40.00	0.450	11.43	7.725	7.625*	11.557	8.767	7.681	5.424	6	72.1	667	750	792	917	1042
	44.00	0.500	12.70	7.625	7.500	12.763	8.809	7.572	5.535	6	75.0	766	862	910	1053	1197
	49.00	0.557	14.15	7.511	7.386	14.118	8.855	7.457	5.880	6	77.8	879	989	1044	1209	1374
	49.10	0.562	14.27	7.501	7.376	14.236	8.857	7.448	5.909	6	78.0	888	999	1054	1221	1387
	52.00	0.595	15.11	7.435	7.310	15.010	8.880	7.381	6.176	6	78.6	944	1062	1121	1298	1475
	54.00	0.625	15.88	7.375	7.250	15.708	8.913	7.322	6.383	5	78.9	992	1116	1178	1364	1550
	58.70	0.687	17.45	7.251	7.126	17.132	8.955	7.198	6.545	5	80.6	1105	1243	1312	1519	1726
	63.50	0.750	19.05	7.125	7.000	18.555	8.982	7.072	6.916	5	81.2	1205	1356	1431	1657	1883

\*Special Drift

1000 lb = 4.44822 kN



Joint Parting Loads are calculated from the minimum specified material ultimate strength and the critical joint cross sectional area, pin or box, as appropriate.  
Collapse Pressures are calculated from API Bul. 5 C 3 Section 1. Minimum Internal Yield Pressures are calculated from API Bul. 5 C 3 Section 3, formula 3.1.1.

	Joint Parting Load (1000 lb)						Collapse Pressure (psi)					Minimum Internal Yield Pressure (psi)					Nominal weight lb./ft.	Size (OD) inch mm
	L80	N80 C90	C95 T95	C110	P110	Q125	80 ksi	90 ksi	95 ksi	110 ksi	125 ksi	80 ksi	90 ksi	95 ksi	110 ksi	125 ksi		
297	312	328	359	390	422	11090	12220	12770	14340	15830	10480	11800	12450	14420	16380	15.10	4 1/2	
344	362	381	417	453	489	12370	13920	14690	17010	19330	11820	13300	14040	16260	18470	17.00	114.30	
388	408	429	469	510	551	13830	15560	16420	19010	21610	13380	15050	15890	18390	20900	18.90		
451	475	499	546	594	642	15800	17780	18770	21730	24690	15560	17500	18470	21390	24310	21.50		
359	378	397	434	472	510	10490	11530	12030	13470	14820	10140	11400	12040	13940	15840	18.00	5	
420	442	464	509	553	597	11990	13490	14240	16490	18550	11420	12850	13570	15710	17850	20.30	127.00	
439	462	485	531	577	624	12360	13910	14680	17000	19320	11820	13290	14030	16250	18460	20.80		
459	483	507	555	604	652	12760	14360	15160	17550	19940	12240	13770	14530	16820	19120	21.40		
498	524	550	603	655	708	13830	15560	16430	19020	21620	13380	15060	15890	18400	20910	23.20		
519	547	574	629	684	738	14400	16200	17100	19800	22500	14000	15750	16630	19250	21880	24.10		
578	608	639	699	760	821	15960	17960	18960	21950	24940	15740	17700	18690	21640	24590	26.70		
635	668	702	769	836	902	17500	19690	20780	24060	27340	17500	19690	20780	24060	27340	29.20		
392	412	433	474	516	557	8830	9630	10020	11100	12090	9190	10340	10910	12640	14360	20.00	5 1/2	
471	496	521	570	620	669	11160	12380	12930	14540	16060	10560	11880	12540	14530	16510	23.00	139.70	
504	530	557	610	663	716	11700	13170	13900	15940	17680	11120	12510	13210	15300	17380	23.80		
554	583	612	671	729	787	12650	14230	15020	17390	19760	12120	13630	14390	16660	18930	26.00		
583	614	644	706	767	828	13220	14880	15700	18180	20660	12730	14320	15110	17500	19890	26.80		
618	650	683	748	813	878	13930	15670	16550	19160	21770	13490	15180	16020	18550	21080	28.40		
656	690	725	794	863	932	14680	16510	17430	20180	22940	14310	16090	16990	19670	22350	29.70		
708	745	783	857	932	1006	15820	17800	18790	21760	24720	15580	17530	18500	21420	24340	32.00		
724	762	800	876	953	1029	16120	18130	19140	22160	25180	15910	17900	18890	21880	24860	32.60		
567	597	627	686	746	806	8170	8880	9220	10160	11000	8810	9910	10460	12120	13770	28.00	6 5/8	
671	706	742	812	883	954	10320	11330	11820	13220	14540	10040	11290	11920	13800	15680	32.00	168.28	
703	740	777	851	925	999	11160	12380	12940	14550	16070	10570	11890	12550	14530	16510	33.00		
900	947	995	1089	1184	1279	11670	13130	13860	15870	17590	11090	12480	13180	15260	17340	34.50		
809	851	894	979	1064	1149	12420	13970	14750	17080	19410	11880	13360	14100	16330	18560	36.70		
899	946	994	1088	1183	1278	13670	15380	16230	18800	21360	13210	14860	15680	18160	20640	40.20		
989	1041	1093	1197	1301	1405	14870	16730	17660	20450	23240	14520	16330	17240	19960	22680	43.70		
689	725	761	834	906	979	9790	10720	11170	12470	13660	9730	10950	11560	13380	15210	32.70	6 7/8	
																	174.63	
494	520	546	598	650	702	5410	5740	5890	6230	6450	7240	8150	8600	9960	11310	26.00	7	
583	614	644	706	767	828	7030	7580	7840	8530	9110	8160	9180	9690	11220	12750	29.00	193.68	
657	692	726	795	864	934	8610	9380	9750	10780	11710	9060	10190	10760	12460	14160	32.00		
742	781	820	899	977	1055	10180	11170	11650	13030	14310	9960	11210	11830	13700	15560	35.00		
822	866	909	995	1082	1168	11390	12820	13430	15130	16740	10800	12150	12830	14850	16880	38.00		
903	951	998	1093	1188	1284	12350	13890	14670	16980	19300	11800	13280	14010	16230	18440	41.00		
958	1009	1059	1160	1261	1362	13010	14640	15450	17890	20330	12500	14060	14840	17190	19530	42.70		
982	1034	1085	1189	1292	1395	13290	14950	15780	18280	20770	12800	14400	15200	17600	20000	44.00		
1025	1079	1133	1240	1348	1456	13850	15580	16450	19040	21640	13400	15080	15910	18430	20940	45.40		
1048	1103	1158	1268	1378	1489	14160	15930	16820	19470	22130	13740	15460	16320	18890	21470	46.40		
1105	1163	1222	1338	1454	1571	14950	16810	17750	20550	23350	14600	16430	17340	20080	22810	49.50		
562	591	621	680	739	798	4790	5030	5130	5350	5670	6890	7750	8180	9470	10760	29.70	7 5/8	
676	712	747	819	890	961	6560	7050	7280	7870	8340	7900	8880	9380	10860	12340	33.70	193.68	
810	852	895	980	1065	1151	8820	9620	10000	11080	12060	9180	10330	10900	12620	14340	39.00		
936	986	1035	1133	1232	1331	10810	11890	12410	13930	15350	10320	11610	12250	14190	16120	42.80		
1000	1053	1105	1211	1316	1421	11510	12950	13670	15440	17100	10930	12290	12970	15020	17070	45.30		
1046	1101	1156	1266	1376	1486	12040	13550	14300	16560	18700	11480	12910	13630	15780	17930	47.10		
1158	1219	1280	1402	1524	1646	13120	14760	15580	18040	20500	12610	14190	14980	17340	19710	51.20		
1180	1242	1304	1429	1553	1677	13340	15010	15840	18340	20840	12850	14460	15260	17670	20080	52.10		
1204	1267	1331	1458	1584	1711	13550	15240	16090	18630	21160	13070	14710	15520	17980	20430	52.80		
1268	1334	1401	1535	1668	1801	14190	15960	16850	19510	22170	13770	15490	16350	18930	21520	55.30		
1342	1412	1483	1624	1766	1907	15220	17130	18080	20930	23790	14910	16770	17700	20500	23300	59.20		
1001	1054	1106	1212	1317	1423	11340	12750	13320	15000	16590	10750	12090	12760	14780	16790	46.10	7 3/4	
1041	1096	1151	1261	1370	1480	11690	13150	13880	15900	17640	11110	12500	13190	15280	17360	46.90	196.85	
1063	1119	1175	1286	1398	1510	11860	13350	14090	16310	18160	11290	12700	13410	15520	17640	47.60		
1094	1151	1209	1324	1439	1554	12120	13640	14400	16670	18940	11560	13010	13730	15900	18070	48.60		
687	724	760	832	904	977	4100	4250	4350	4690	4930	6490	7300	7710	8930	10150	36.00	8 5/8	
792	834	875	959	1042	1125	5520	5870	6020	6390	6640	7300	8220	8670	10040	11410	40.00	219.08	
910	958	1006	1101	1197	1293	6950	7490	7740	8420	8980	8120	9130	9640	11160	12680	44.00		
1044	1099	1154	1264	1374	1484	8570	9340	9710	10730	11660	9040	10170	10740	12430	14130	49.00		
1054	1110	1165	1276	1387	1498	8710	9500	9880	10940	11890	9120	10260	10830	12540	14250	49.10		
1121	1180	1239	1357	1475	1593	9650	10570	11010	12280	13440	9660	10870	11470	13280	15090	52.00		
1178	1240	1302	1426	1550	1674	10510	11540	12050	13490	14850	10150	11410	12050	13950	15850	54.00		
1312	1381	1450	1588	1726	1865	11730	13200	13930	16010	17760	11150	12550	13240	15330	17420	58.70		
1431	1506	1582	1732	1883	2034	12700	14290	15090	17470	19850	12170	13700	14460	16740	19020	63.50		

Joint Parting Load calculated on minimum ultimate strength.  
L80 U=95 ksi, N80/C90 U=100 ksi, C95/T95 U=105 ksi, C110 U=115 ksi,  
P110 U=125 ksi, Q125 U=135 ksi

1 ksi = 1000 psi  
1 psi = 0.006895 Mpa  
0.06895 bar

Joint Yield Strengths are calculated from the minimum specified material yield strength and the critical joint cross sectional area, pin or box, as appropriate.

Size (OD)	Nominal weight	Wall thickness		Inside diameter	Drift diameter	Pipe body section	Box O.D.	Pin I.D.	Make-up loss	Threads per inch	Joint Efficiency	Joint Yield Strength (1000 lb)				
		in.	mm.									in.	in.	sq. in.	in.	in.
9 5/8 244.48	43.50	0.435	11.05	8.755	8.599	12.559	9.748	8.673	5.180	6	69.4	697	785	828	959	1090
	47.00	0.472	11.99	8.681	8.525	13.572	9.777	8.599	5.488	6	71.9	781	878	927	1073	1220
	53.50	0.545	13.84	8.535	8.500*	15.546	9.855	8.558	6.039	5	74.5	927	1043	1101	1275	1449
	58.40	0.595	15.11	8.435	8.375*	16.879	9.882	8.433	6.135	5	76.8	1037	1167	1231	1426	1620
	59.40	0.609	15.47	8.407	8.251	17.250	9.894	8.325	6.378	5	77.4	1068	1202	1268	1469	1669
	61.10	0.625	15.88	8.375	8.219	17.671	9.905	8.293	6.423	5	77.8	1100	1238	1307	1513	1719
	64.90	0.672	17.07	8.281	8.125	18.901	9.941	8.199	6.554	5	79.3	1198	1348	1423	1648	1873
	70.30	0.734	18.64	8.157	8.001	20.502	9.977	8.075	6.916	5	80.4	1319	1484	1567	1814	2062
	71.80	0.750	19.05	8.125	7.969	20.911	9.985	8.043	7.174	5	81.0	1354	1524	1608	1862	2116
	75.60	0.797	20.24	8.031	7.875	22.104	10.013	7.949	7.315	5	81.8	1446	1627	1718	1989	2260
80.80	0.859	21.82	7.907	7.751	23.656	9.961	7.825	7.613	5	80.0	1514	1703	1798	2081	2365	
9 3/4 247.65	59.20	0.595	15.11	8.560	8.500*	17.113	10.006	8.559	6.134	5	76.6	1049	1180	1245	1442	1638
9 7/8 250.83	62.80	0.625	15.88	8.625	8.500*	18.162	10.151	8.559	6.421	5	77.6	1128	1269	1339	1551	1762
	65.30	0.650	16.51	8.575	8.500*	18.838	10.174	8.559	6.509	5	78.6	1185	1333	1407	1630	1852
	66.90	0.668	16.97	8.539	8.383	19.322	10.188	8.457	6.562	5	79.2	1225	1378	1455	1684	1914
	68.90	0.700	17.78	8.475	8.319	20.177	10.207	8.393	6.861	5	79.5	1284	1444	1524	1765	2006
10 254.00	67.20	0.672	17.07	8.656	8.500	19.693	10.312	8.574	6.568	5	79.3	1249	1405	1483	1717	1951
	68.70	0.688	17.48	8.624	8.500*	20.127	10.325	8.559	6.821	5	79.9	1286	1447	1527	1768	2009
10 3/4 273.05	51.00	0.450	11.43	9.850	9.694	14.561	10.878	9.770	5.457	6	69.8	813	915	966	1118	1271
	55.50	0.495	12.57	9.760	9.625*	15.947	10.913	9.686	5.785	6	72.6	926	1041	1099	1273	1446
	60.70	0.545	13.84	9.660	9.504	17.473	10.962	9.580	6.025	5	73.9	1032	1161	1226	1420	1613
	65.70	0.595	15.11	9.560	9.500*	18.982	11.002	9.561	6.376	5	76.2	1157	1301	1374	1590	1807
	71.10	0.650	16.51	9.450	9.294	20.625	11.045	9.370	6.557	5	78.4	1293	1454	1535	1778	2020
	73.20	0.672	17.07	9.406	9.250	21.276	11.063	9.326	6.820	5	79.1	1347	1516	1600	1852	2105
	75.90	0.700	17.78	9.350	9.194	22.101	11.081	9.270	6.886	5	79.3	1402	1577	1664	1927	2190
	79.20	0.734	18.64	9.282	9.126	23.096	11.102	9.202	6.962	5	79.5	1469	1652	1744	2019	2295
	80.80	0.750	19.05	9.250	9.094	23.562	11.114	9.170	7.220	5	79.9	1505	1693	1787	2070	2352
	85.30	0.797	20.24	9.156	9.000	24.921	11.144	9.076	7.368	5	81.0	1614	1816	1917	2220	2523
97.10	0.922	23.42	8.906	8.750	28.467	11.187	8.826	8.125	5	81.8	1862	2095	2211	2560	2909	
11 3/4 298.45	54.00	0.435	11.05	10.880	10.724	15.463	11.858	10.804	5.476	6	67.6	837	941	994	1150	1307
	60.00	0.489	12.42	10.772	10.625*	17.300	11.900	10.689	5.843	6	71.2	986	1109	1170	1355	1540
	65.00	0.534	13.56	10.682	10.625*	18.816	11.943	10.689	6.043	5	72.3	1088	1224	1292	1495	1699
	71.00	0.582	14.78	10.586	10.430	20.420	11.981	10.509	6.393	5	74.6	1218	1370	1447	1675	1903
	74.60	0.618	15.70	10.514	10.358	21.613	12.006	10.437	6.519	5	76.1	1316	1481	1563	1810	2057
	75.40	0.625	15.88	10.500	10.344	21.844	12.011	10.424	6.543	5	76.4	1335	1502	1586	1836	2086
	78.80	0.656	16.66	10.438	10.282	22.863	12.035	10.361	6.845	5	77.6	1419	1596	1685	1951	2217
	80.50	0.672	17.07	10.406	10.250	23.387	12.048	10.330	6.900	5	78.1	1462	1644	1736	2010	2284
	82.60	0.691	17.55	10.368	10.212	24.007	12.063	10.291	6.963	5	78.8	1513	1702	1797	2081	2364
87.40	0.734	18.64	10.282	10.126	25.402	12.097	10.206	7.289	5	80.2	1629	1833	1935	2240	2546	
11 7/8 301.63	71.80	0.582	14.78	10.711	10.625*	20.648	12.096	10.689	6.454	5	74.2	1225	1379	1455	1685	1915
12 306.40	78.08	0.640	16.26	10.783	10.627	22.967	12.328	10.707	6.796	5	76.2	1401	1576	1663	1926	2189
12 1/8 307.97	87.70	0.720	18.29	10.685	10.625*	25.798	12.451	10.689	7.248	5	78.8	1626	1829	1930	2235	2540
12 3/4 323.85	86.70	0.672	17.07	11.406	11.250	25.498	13.013	11.314	6.891	5	74.3	1516	1705	1800	2084	2369
13 3/8 339.73	68.00	0.480	12.19	12.415	12.259	19.445	13.513	12.341	5.767	5	67.7	1054	1185	1251	1449	1646
	72.00	0.514	13.06	12.347	12.250*	20.768	13.542	12.317	5.976	5	69.9	1161	1307	1379	1597	1815
	77.00	0.550	13.97	12.275	12.119	22.160	13.573	12.201	6.057	5	71.9	1274	1434	1513	1752	1991
	80.70	0.580	14.73	12.215	12.059	23.314	13.590	12.141	6.164	5	73.2	1366	1537	1622	1878	2134
	85.00	0.608	15.44	12.159	12.003	24.386	13.611	12.085	6.465	5	74.4	1451	1633	1723	1995	2268
	86.00	0.625	15.88	12.125	11.969	25.035	13.625	12.051	6.532	5	75.1	1505	1693	1787	2069	2352
	92.00	0.672	17.07	12.031	11.875	26.818	13.661	11.957	6.896	5	76.9	1649	1856	1959	2268	2577
98.00	0.719	18.26	11.937	11.781	28.587	13.698	11.863	7.246	5	78.4	1793	2018	2130	2466	2802	
13 5/8 346.08	88.20	0.625	15.88	12.375	12.250*	25.525	13.875	12.317	6.519	5	75.0	1531	1723	1818	2105	2392
14 355.60	115.00	0.812	20.62	12.376	12.250*	33.642	14.381	12.318	8.054	5	76.7	2065	2323	2452	2839	3226

\*Special Drift

1000 lb = 4.44822 kN

Joint Parting Loads are calculated from the minimum specified material ultimate strength and the critical joint cross sectional area, pin or box, as appropriate.  
 Collapse Pressures are calculated from API Bul. 5 C 3 Section 1. Minimum Internal Yield Pressures are calculated from API Bul. 5 C 3 Section 3, formula 3.1.1.

Joint Parting Load (1000 lb)						Collapse Pressure (psi)					Minimum Internal Yield Pressure (psi)					Nominal weight	Size (OD)
L80	N80 C90	C95 T95	C110	P110	Q125	80 ksi	90 ksi	95 ksi	110 ksi	125 ksi	80 ksi	90 ksi	95 ksi	110 ksi	125 ksi	lb./ft.	inch mm
828	872	915	1002	1090	1177	3810	4010	4130	4420	4620	6330	7120	7510	8700	9890	43.50	9 5/8
927	976	1024	1122	1220	1317	4750	4990	5090	5300	5630	6870	7720	8150	9440	10730	47.00	244.48
1101	1159	1217	1333	1449	1565	6620	7120	7340	7950	8440	7930	8920	9410	10900	12390	53.50	
1231	1296	1361	1491	1620	1750	7890	8570	8890	9770	10540	8660	9740	10280	11900	13520	58.40	
1268	1335	1402	1535	1669	1803	8250	8970	9320	10280	11130	8860	9970	10520	12180	13840	59.40	
1307	1376	1444	1582	1719	1857	8660	9440	9810	10860	11800	9090	10230	10800	12500	14210	61.10	
1423	1498	1573	1723	1873	2022	9860	10800	11260	12570	13780	9780	11000	11610	13440	15270	64.90	
1567	1649	1732	1897	2062	2226	11270	12600	13170	14820	16390	10680	12010	12680	14680	16680	70.30	
1608	1693	1777	1947	2116	2285	11500	12930	13650	15400	17060	10910	12270	12960	15000	17050	71.80	
1718	1808	1899	2079	2260	2441	12150	13670	14430	16710	18990	11590	13040	13770	15940	18110	75.60	
1798	1892	1987	2176	2365	2554	13010	14630	15440	17880	20320	12500	14060	14840	17180	19520	80.80	
1245	1311	1376	1507	1638	1770	7700	8350	8650	9490	10220	8540	9610	10150	11750	13350	59.20	9 3/4
																	247.65
1339	1410	1480	1621	1762	1903	8260	8980	9320	10280	11140	8860	9970	10520	12180	13850	62.80	9 7/8
1407	1482	1556	1704	1852	2000	8880	9690	10070	11170	12160	9220	10370	10940	12670	14400	65.30	250.83
1455	1531	1608	1761	1914	2067	9330	10200	10620	11810	12900	9470	10650	11250	13020	14800	66.90	
1524	1605	1685	1845	2006	2166	10120	11100	11580	12940	14210	9920	11170	11790	13650	15510	68.90	
1483	1561	1639	1795	1951	2107	9220	10070	10480	11650	12720	9410	10580	11170	12940	14700	67.20	10
1527	1607	1688	1849	2009	2170	9610	10520	10960	12210	13370	9630	10840	11440	13240	15050	68.70	254.00
966	1017	1068	1169	1271	1373	3220	3400	3480	3660	3750	5860	6590	6960	8060	9160	51.00	10 3/4
1099	1157	1215	1331	1446	1562	4020	4160	4290	4610	4850	6450	7250	7660	8860	10070	55.50	273.05
1226	1290	1355	1484	1613	1742	5160	5460	5590	5880	6070	7100	7990	8430	9760	11090	60.70	
1374	1446	1518	1663	1807	1952	6300	6760	6970	7500	7920	7750	8720	9200	10660	12110	65.70	
1535	1616	1697	1858	2020	2182	7560	8190	8480	9290	9990	8470	9520	10050	11640	13230	71.10	
1600	1684	1768	1936	2105	2273	8060	8760	9090	10010	10820	8750	9850	10390	12030	13670	73.20	
1664	1752	1840	2015	2190	2365	8700	9490	9860	10920	11870	9120	10260	10830	12540	14240	75.90	
1744	1836	1927	2111	2295	2478	9480	10370	10800	12030	13160	9560	10750	11350	13140	14940	79.20	
1787	1882	1976	2164	2352	2540	9850	10790	11250	12550	13760	9770	10990	11600	13430	15260	80.80	
1917	2018	2119	2321	2523	2724	10920	12010	12540	14080	15530	10380	11680	12330	14270	16220	85.30	
2211	2328	2444	2677	2909	3142	12550	14110	14900	17250	19600	12010	13510	14260	16510	18760	97.10	
994	1046	1098	1203	1307	1412	2440	2530	2550	2570	2570	5180	5830	6160	7130	8100	54.00	11 3/4
1170	1232	1293	1417	1540	1663	3180	3360	3440	3610	3680	5830	6560	6920	8010	9100	60.00	298.45
1292	1360	1427	1563	1699	1835	3870	4060	4170	4480	4690	6360	7160	7560	8750	9940	65.00	
1447	1523	1599	1751	1903	2056	4880	5130	5240	5470	5760	6930	7800	8240	9540	10840	71.00	
1563	1646	1728	1892	2057	2222	5630	5990	6150	6540	6810	7360	8280	8740	10130	11510	74.60	
1586	1669	1752	1919	2086	2253	5770	6160	6330	6750	7050	7450	8380	8840	10240	11640	75.40	
1685	1773	1862	2039	2217	2394	6420	6890	7110	7670	8120	7820	8790	9280	10750	12210	78.80	
1736	1827	1918	2101	2284	2467	6760	7270	7510	8150	8670	8010	9010	9510	11010	12510	80.50	
1797	1892	1986	2175	2364	2554	7150	7730	7990	8720	9320	8230	9260	9780	11320	12860	82.60	
1935	2036	2138	2342	2546	2749	8050	8750	9080	10000	10800	8750	9840	10390	12030	13670	87.40	
1455	1532	1608	1761	1915	2068	4750	4990	5080	5290	5630	6860	7720	8150	9440	10720	71.80	11 7/8
																	301.63
1663	1751	1839	2014	2189	2364	5740	6120	6280	6700	6990	7430	8360	8820	10210	11610	78.08	12
																	306.40
1930	2032	2133	2337	2540	2743	7300	7890	8160	8920	9550	8310	9350	9870	11430	12990	87.70	12 1/8
																	307.97
1800	1895	1990	2179	2369	2558	5660	6020	6180	6580	6850	7380	8300	8760	10150	11530	86.70	12 3/4
																	323.85
1251	1317	1383	1514	1646	1778	2260	2320	2330	2340	2340	5020	5650	5970	6910	7850	68.00	13 3/8
1379	1452	1524	1669	1815	1960	2670	2780	2820	2880	2880	5380	6050	6390	7400	8410	72.00	339.73
1513	1593	1673	1832	1991	2151	3100	3270	3340	3490	3550	5760	6480	6840	7920	9000	77.00	
1622	1708	1793	1964	2134	2305	3460	3680	3770	4000	4140	6070	6830	7210	8350	9490	80.70	
1723	1814	1905	2086	2268	2449	3870	4060	4180	4480	4690	6360	7160	7560	8750	9940	85.00	
1787	1881	1975	2163	2352	2540	4190	4350	4420	4770	5030	6540	7360	7770	9000	10220	86.00	
1959	2062	2165	2371	2577	2783	5050	5330	5450	5720	5950	7030	7910	8350	9670	10990	92.00	
2130	2242	2354	2578	2802	3026	5910	6310	6490	6950	7280	7530	8470	8940	10350	11760	98.00	
1818	1914	2010	2201	2392	2584	3980	4130	4260	4570	4800	6420	7230	7630	8830	10030	88.20	13 5/8
																	346.08
2452	2581	2710	2968	3226	3484	6960	7500	7750	8430	8990	8120	9140	9640	11170	12690	115.00	14
																	355.60

Joint Parting Load calculated on minimum ultimate strength.

L80 U=95 ksi, N80/C90 U=100 ksi, C95/T95 U=105 ksi, C110 U=115 ksi, P110 U=125 ksi, Q125 U=135 ksi

1 ksi = 1000 psi  
 1 psi = 0.006895 Mpa  
 0.06895 bar

*VAM® SLIJ-II is an integral connection machined on plain-end pipe. Box and pin ends are swaged/expanded prior to threading. The design combines a near-flush OD with high tensile efficiencies and excellent structural integrity. Use VAM® SLIJ-II when you need maximum clearance and optimum joint strength for production and intermediate casing, drilling liners and tie-backs.*

### Generous running clearances

- Box is expanded and turned down to OD's that are typically 2% to 3% over the diameter of the pipe.

### High tension and compression strength

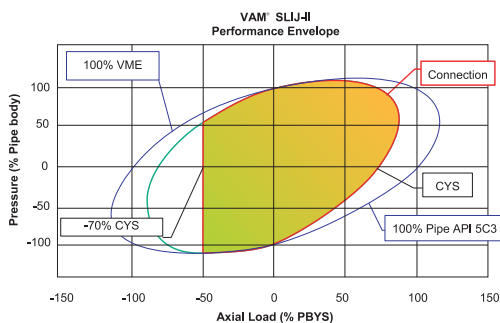
- Thread design incorporates broad critical sections that develop tension efficiencies of 70% to 80% of the pipe body yield strength.
- Thread form and 90° middle torque shoulder contribute to high compression strength equal to 70% of the joint strength.

### Great structural integrity

- The compound tapered cylindrical thread form design utilizes four planes to optimise stresses throughout the connection.
- The negative 10° hooked thread profile securely locks the connection and prevents jump-out under high tension even in the most severe conditions of over-doping.

### 100% Pipe Body burst and collapse

- A unique combination of internal and external metal-to-metal seals prevent pressures from entering the connection ensuring connection pressure ratings greater than or equal to the pipe body ratings.



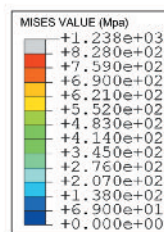
CYS = from 67,7% to 82% PBYS

### BENEFITS

- Optimized clearance with high tensile efficiency
- Double metal seals provide 100% pipe body internal and external pressure rating
- Excellent compression rating equal to 70% CYS (Connection Yield Strength)
- High bending rating (20 deg/100ft)
- User friendly (Easy running not sensitive to over-doping back-out torque equivalent to make-up torque)
- Numerous successful tests and FEA data

### User friendly

- VAM® SLIJ-II was specially developed to withstand severe excess of thread compound (over-doping).
- The connection stabs deep with no risk of cross threading. Make-up is easy and controlled by the 90° Torque shoulder.



Example of FEA Stress Plot

### Test data

- VAM® SLIJ-II was developed through an extensive program of physical testing and Finite Element Analysis
- VAM® SLIJ-II passed the DEA 27, 6 samples test procedure for flush and semi-flush connectors.
- VAM® SLIJ II is the first Semi-flush connection to pass the ISO 13679 specification (9 7/8" 62.8# P110)

# Popular VAM® connections



## VAM® TOP

VAM® TOP is a T&C connection ideal for tubing and production casing strings applications. VAM® TOP provides gastight sealing under the most severe conditions including great depths, highly deviated holes, and hostile environments. It outperforms the majority of today's premium connections designed according to casing and tubing requirements.



## VAM® FJL

(Flush Joint Liner)

100% flush ID and OD to provide maximum clearance with optimum strength for liners, moderate depth casing, and tight-hole tubing strings.



## DINO VAM®

A cost effective T&C connection for surface and intermediate casing applications. Increased running reliability and reduced rig costs result from its deep stabbing, non cross-threading and fast make-up. Sealing and structural strength are provided by a coarse 3 TPI tapered, hooked thread design.

## SUMITOMO METAL INDUSTRIES, LTD.

### HEAD OFFICE:

#### Tokyo Office

Triton Square Office Tower Y  
8-11, Harumi 1-Chome, Chuo-ku,  
Tokyo 104-6111, Japan  
Phone +81 (3) 4416-6280  
Fax +81 (3) 4416-6288

### OVERSEAS OFFICES:

#### Singapore Office

5 Shenton Way #25-07, UIC  
Building 068808  
Singapore  
Phone +65 (6) 220-9193  
Fax +65 (6) 224-0386

#### London Office

Horatio House  
77-85 Fulham Palace Road  
London W6 8JB England  
Phone +44 (20) 8748-4480  
Fax +44 (20) 8748-8350

#### Sumitomo Metal Industries (Middle East)

PO Box 262517  
Level 10, JAFZA View 18  
Jebel Ali Free Zone  
Dubai, U.A.E.  
Phone +971-4-886-5900  
Fax +971-4-886-5901

### OVERSEAS AFFILIATE:

#### Houston Office

820 Gessner, Suite 1670  
Houston, TX, 77024  
Phone +1 (713) 654-7111  
Fax +1 (713) 654-1261



URL <http://www.sumitomo-tubulars.com>  
<http://www.sumitomometals.co.jp>

VAM® is a registered Trademark of Vallourec Mannesmann Oil & Gas France

Although prepared with the greatest care and attention, the technical information appearing in this catalog is a general information only due in particular to the evolving nature of the numerous factors involved in this compilation. The company accepts no responsibility for this information and customers should therefore carry out all necessary investigations to choose for themselves the technical solution, suited to the installation and operating conditions under which our products will be used.