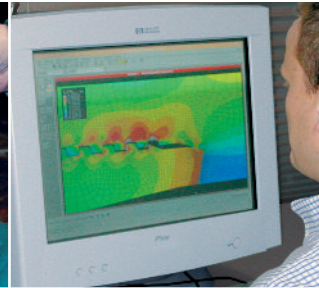
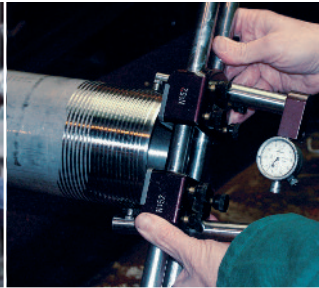




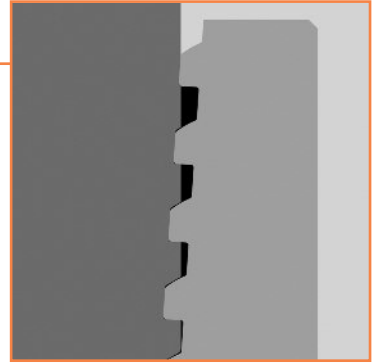
Biggest in class



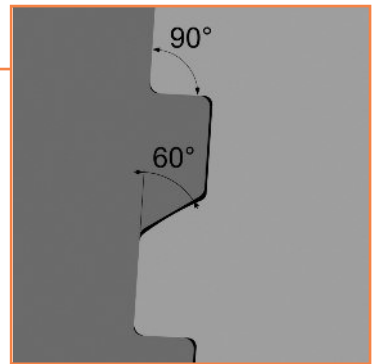
- VAM® 21*
- VAM® TOP*
- VAM® TOP HC*
- VAM® TOP HT*
- VAM® SLIJ II*
- VAM® FJL*
- VAM® HTF*
- DINO VAM®*
- BIG OMEGA™***
- VAM® TOP FE*
- VAM® HW ST*
- VAM® MUST*



Thread run-out

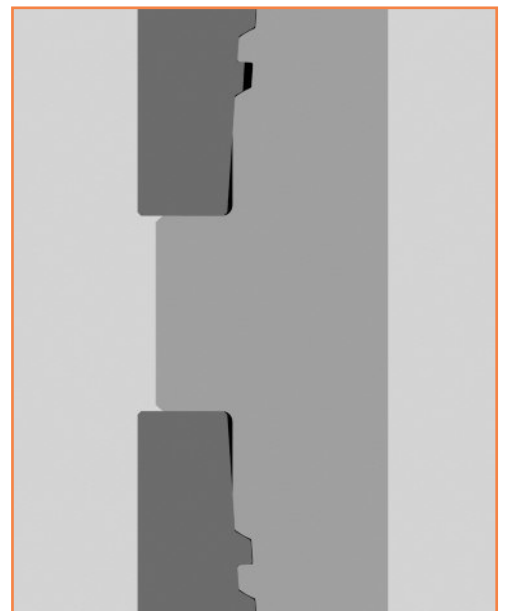


Thread form



TAPER: 1/7.5
3 TPI

BIG OMEGA-IS (OPTION)



Joint yield strengths are calculated from the minimum specified material yield stress and the critical joint cross sectional area, pipe or coupling, as appropriate.

Size (OD)	Nominal Weight	Wall thickness		Drift diameter	Make-up loss	Coupling length	Pipe body section	Coupling OD		Coupling CCS (sq. in.)				Collapse Resistance (psi)				
		inch	mm					inch	type	K-55	L/N-80	C-95	P-110	K-55	L/N-80	C-95	P-110	
14 355.60	82.50	0.562	14.27	12.689	4.815	10.63	23.726	15.0	Reg	33.024	33.194	33.406	33.491	2420	2940	3150	3270	
	94.80	0.656	16.66	12.501	4.815	10.63	27.500	15.0	Reg	33.024	33.194	33.406	33.491	3530	4220	4450	4800	
	94.80	0.656	16.66	12.501	4.815	10.63	27.500	15.5	MS	45.001	45.171	--	--	3530	4220	--	--	
	99.30	0.688	17.48	12.437	4.815	10.63	28.773	15.0	Reg	33.024	33.194	33.406	33.491	3900	4780	5120	5330	
	99.30	0.688	17.48	12.437	4.815	10.63	28.773	15.5	MS	45.001	45.171	--	43.937	3900	4780	--	5330	
	110.00	0.772	19.61	12.269	4.815	10.63	32.082	15.0	Reg	33.024	33.194	33.406	33.491	4890	6250	6900	7430	
110.00	0.772	19.61	12.269	4.815	10.63	32.082	15.5	MS	45.001	45.171	45.383	45.468	4890	6250	6900	7430		
16 406.40	75.00	0.438	11.13	14.937	3.815	10.63	21.414	17.0	Reg	34.495	--	--	--	1020	--	--	--	
	84.00	0.495	12.57	14.823	3.815	10.63	24.112	17.0	Reg	34.495	34.692	--	--	1410	1480	--	--	
	94.50	0.562	14.27	14.689	4.815	10.63	27.257	17.0	Reg	37.752	37.947	38.093	38.288	1870	2140	2190	2190	
	109.00	0.656	16.66	14.501	4.815	10.63	31.622	17.0	Reg	37.752	37.947	38.093	38.288	2560	3080	3320	3470	
	109.00	0.656	16.66	14.501	4.815	10.63	31.622	17.5	MS	--	51.495	51.641	51.836	--	3080	3320	3470	
	118.00	0.715	18.16	14.383	4.815	10.63	34.334	17.0	Reg	37.752	37.947	38.093	38.288	3170	3690	4030	4300	
	118.00	0.715	18.16	14.383	4.815	10.63	34.334	17.5	MS	51.300	51.495	51.641	51.836	3170	3690	4030	4300	
	128.00	0.781	19.84	14.251	4.815	10.63	37.341	17.0	Reg	37.752	37.947	38.093	38.288	3850	4700	5030	5240	
	128.00	0.781	19.84	14.251	4.815	10.63	37.341	17.5	MS	51.300	51.495	51.641	51.836	3850	4700	5030	5240	
	147.00	0.906	23.01	14.001	4.815	10.63	42.962	17.0	Reg	37.752	37.947	38.093	38.288	5130	6620	7340	7950	
	147.00	0.906	23.01	14.001	4.815	10.63	42.962	18.0	MS	65.241	65.436	65.582	65.777	5130	6620	7340	7950	
	18 5/8 473.08	87.50	0.435	11.05	17.568	3.815	10.63	24.858	20.0	Reg	51.855	--	--	--	630	--	--	--
96.50		0.485	12.32	17.468	3.815	10.63	27.639	20.0	Reg	51.855	52.142	--	--	870	870	--	--	
114.00		0.579	14.71	17.280	4.815	10.63	32.825	20.0	Reg	55.688	55.973	56.201	56.371	1420	1500	1500	1500	
136.00		0.693	17.60	17.052	4.815	10.63	39.400	20.0	Reg	55.688	55.973	56.201	56.371	2090	2470	2590	2610	
139.00		0.720	18.29	16.998	4.815	10.63	40.500	20.0	Reg	55.688	55.973	56.201	56.371	2250	2710	2870	2930	
20 508.00	94.00	0.438	11.13	18.937	3.815	10.63	26.918	21.0	Reg	43.255	--	--	--	520	--	--	--	
	106.50	0.500	12.70	18.813	3.815	10.63	30.631	21.0	Reg	43.255	43.594	--	--	770	770	--	--	
	118.50	0.563	14.30	18.687	4.815	10.63	34.379	21.0	Reg	47.345	47.713	47.713	47.958	1100	1110	1110	1110	
	118.50	0.563	14.30	18.687	4.815	10.63	34.379	21.5	MS	--	--	64.403	64.648	--	--	1110	1110	
	133.00	0.635	16.13	18.543	4.815	10.63	38.631	21.0	Reg	47.345	47.713	47.713	47.958	1500	1600	1600	1600	
	133.00	0.635	16.13	18.543	4.815	10.63	38.631	21.5	MS	--	--	64.403	64.648	--	--	1600	1600	
	147.00	0.709	18.01	18.395	4.815	10.63	42.969	21.0	Reg	47.345	47.713	47.713	47.958	1900	2190	2250	2250	
	147.00	0.709	18.01	18.395	4.815	10.63	42.969	21.5	MS	64.035	64.403	64.403	64.648	1900	2190	2250	2250	
	169.00	0.812	20.62	18.189	4.815	10.63	48.948	21.0	Reg	47.345	47.713	47.713	47.958	2500	3020	3240	3370	
	169.00	0.812	20.62	18.189	4.815	10.63	48.948	21.5	MS	64.035	64.403	--	--	2500	3020	--	--	
	169.00	0.812	20.62	18.189	4.815	10.63	48.948	22.0	MS	--	--	81.485	81.730	--	--	3240	3370	
	24 609.60	162.00	0.635	16.13	22.462	4.815	10.63	46.611	25.0	Reg	56.990	57.728	--	--	920	920	--	--
174.00		0.688	17.48	22.356	4.815	10.63	50.387	25.0	Reg	56.990	57.728	57.728	57.876	1160	1170	1170	1170	
174.00		0.688	17.48	22.356	4.815	10.63	50.387	25.5	MS	76.821	77.559	77.559	77.707	1160	1170	1170	1170	
189.00		0.750	19.05	22.232	4.815	10.63	54.782	25.0	Reg	56.990	57.728	57.728	57.876	1440	1530	1530	1530	
189.00		0.750	19.05	22.232	4.815	10.63	54.782	25.5	MS	76.821	77.559	77.559	--	1440	1530	1530	--	
189.00		0.750	19.05	22.232	4.815	10.63	54.782	26.0	MS	--	--	--	97.931	--	--	--	1530	
203.00		0.812	20.62	22.108	4.815	10.63	59.152	25.0	Reg	57.101	--	57.728	57.728	57.876	1930	1950	1950	
203.00		0.812	20.62	22.108	4.815	10.63	59.152	25.5	MS	76.821	77.559	--	--	1720	1930	--	--	
203.00		0.812	20.62	22.108	4.815	10.63	59.152	26.0	MS	--	--	97.783	97.931	--	--	1950	1950	
24 1/2 622.30		140.00	0.531	13.49	23.170	3.815	10.63	39.985	25.5	Reg	53.098	--	--	--	500	--	--	--
		165.00	0.635	16.13	22.962	4.815	10.63	47.609	25.5	Reg	58.165	58.919	--	--	860	860	--	--
		182.00	0.709	18.01	22.814	4.815	10.63	52.992	25.5	Reg	58.165	58.919	58.919	59.069	1190	1210	1210	1210
	182.00	0.709	18.01	22.814	4.815	10.63	52.992	26.0	MS	78.389	79.143	79.143	79.293	1190	1210	1210	1210	
	207.00	0.812	20.62	22.608	4.815	10.63	60.427	25.5	Reg	58.165	58.919	58.919	59.069	1650	1820	1830	1830	
	207.00	0.812	20.62	22.608	4.815	10.63	60.427	26.0	MS	78.389	79.143	--	--	1650	1820	--	--	
	207.00	0.812	20.62	22.608	4.815	10.63	60.427	26.5	MS	--	--	99.760	99.910	--	--	1830	1830	
	207.00	0.750	19.05	24.232	4.815	10.63	59.494	27.5	Reg	83.252	83.893	83.893	--	1180	1190	1190	--	
26 660.40	207.00	0.750	19.05	24.232	4.815	10.63	59.494	28.0	MS	--	--	105.688	--	--	--	1190	--	
	223.00	0.812	20.62	24.108	4.815	10.63	64.254	27.5	Reg	83.252	83.893	83.893	--	1440	1520	--	--	
	223.00	0.812	20.62	24.108	4.815	10.63	64.254	28.0	MS	--	--	105.688	--	--	--	1520	--	
	237.00	0.866	22.00	24.000	4.815	10.63	68.380	27.5	Reg	83.252	83.893	83.893	--	1670	1850	1860	--	
	237.00	0.866	22.00	24.000	4.815	10.63	68.380	28.0	MS	--	--	105.688	--	--	--	1860	--	
	270.00	1.000	25.40	23.732	4.815	10.63	78.540	27.5	Reg	83.252	83.893	83.893	84.173	2230	2670	2830	2890	
	270.00	1.000	25.40	23.732	4.815	10.63	78.540	28.0	MS	105.047	105.688	--	--	2230	2670	--	--	
	270.00	1.000	25.40	23.732	4.815	10.63	78.540	28.5	MS	--	--	127.875	128.275	--	--	2830	2890	

Coupling CCS = Coupling Critical Cross Section

BIG OMEGA™-IS - NA

18 5/8 473.08	96.50	0.485	12.32	17.500	5.772	12.882	27.639	19.626	MS	37.914	38.202	38.443	38.577	870	870	870	870
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NB: BIG OMEGA™-IS Option upon request

1000 lb. = 4.44822 kN

RECOMMENDATION FOR RUNNING BIG OMEGA™ CASING



Short running times and safe make-ups can be achieved by observing the following:

1. Pipes, couplings and thread protectors are to be inspected for transportation damage.
2. Thread protectors should be removed and the threads cleaned and inspected for possible damage. Minor damage can be repaired with the aid of a file, a small hand grinder, or sand paper.
3. All casing should be drift-tested full length.
4. For intermediate storage, thread compound should be applied to the coupling and pin threads, and clean thread protectors fitted.
5. Accessory parts should be checked for power make-up and drift.
6. The outside diameter of the BIG OMEGA™ Casing according to API 5CT. (Exception 18 5/8" x 96.5 lb/ft and 16" x 94.5 lb/ft with alternate drift: in this case the outside tolerance is increased to nominal diameter + 1.25%). The inside diameter of the auxiliary elevator with the picked up BIG OMEGA™ Casing should be fixed aligned with the axis of the casing already installed in the rotary table. The elevator should be hung up freely moving at a swivel, which turns easily during make-up.
7. When pulling the casing into the derrick, suitable and cleaned pin-end thread protectors must be used to avoid thread damage.
8. BIG OMEGA™ Casing in grades J-55 through L-80 is usually made up with API modified thread compound. C-95 and higher grades require make-up with Liquid-O-Ring 104 or equivalent.
9. Before stabbing ensure that a sufficient amount of thread compound is applied over the entire surface of pin or coupling threads. The thread compound must be pliable. If it becomes stiff under low temperatures, it should be warmed. Under no circumstances the compound should be made pliable by the attention of any solvents. When using locking compounds observe manufacturer's handling instructions.

Minimum Internal Leak Pressure (psi)				Connection Leak Resistance (psi)				Pipe Body Yield Strength (1000 lb)				Joint Strength (1000 lbs)					Nominal Weight	Size (OD)
K-55	L/N-80	C-95	P-110	K-55	L/N-80	C-95	P-110	K-55	L/N-80	C-95	P-110	K-55	L-80	N-80	C-95	P-110	lb./ft.	inch mm
3860	5620	6670	7730	4493	6144	8219	9054	1305	1898	2254	2610	1560	1872	1918	2152	2523	82.50	355.60
4510	6560	7790	9020	4493	6144	8219	9054	1513	2200	2613	3025	1808	2170	2224	2494	2924	94.80	
4510	6560	--	--	5732	7833	--	--	1513	2200	--	--	1808	2170	2224	--	--	94.80	
4730	6880	8170	9460	4493	6144	8219	9054	1583	2302	2733	3165	1892	2271	2326	2609	3060	99.30	
4730	6880	--	9460	5732	7833	--	11530	1583	2302	--	3165	1892	2271	2326	--	3060	99.30	
5310	7720	9170	10620	4493	6144	8219	9054	1765	2567	3048	3529	2109	2532	2594	2910	3411	110.00	
5310	7720	9170	10620	5732	7833	10471	11530	1765	2567	3048	3529	2109	2532	2594	2910	3411	110.00	
2630	--	--	--	3724	--	--	--	1178	--	--	--	1331	--	--	--	--	75.00	
2980	4330	--	--	3724	4884	--	--	1326	1929	--	--	1499	1861	1898	--	--	84.00	
3380	4920	5840	6760	4112	5392	6356	7649	1499	2181	2589	2998	1694	2104	2146	2434	2846	94.50	
3950	5740	6820	7890	4112	5392	6356	7649	1739	2530	3004	3478	1965	2441	2489	2823	3302	109.00	
--	5740	6820	7890	--	6910	8142	9791	--	2530	3004	3478	--	2441	2489	2823	3302	109.00	
4300	6260	7430	8600	4112	5392	6356	7649	1888	2747	3262	3777	2134	2650	2703	3065	3585	118.00	
4300	6260	7430	8600	5273	6910	8142	9791	1888	2747	3262	3777	2134	2650	2703	3065	3585	118.00	
4700	6830	8120	9400	4112	5392	6356	7649	2054	2987	3547	4108	2321	2883	2940	3334	3899	128.00	
4700	6830	8120	9400	5273	6910	8142	9791	2054	2987	3547	4108	2321	2883	2940	3334	3899	128.00	
5450	7930	9410	10900	4112	5392	6356	7649	2363	3437	4081	4726	2670	3317	3382	3807	4486	147.00	
5450	7930	9410	10900	6339	8304	9781	11757	2363	3437	4081	4726	2670	3317	3382	3836	4486	147.00	
2250	--	--	--	3727	--	--	--	1367	--	--	--	1427	--	--	--	--	87.50	
2510	3650	--	--	3727	5073	--	--	1520	2211	--	--	1587	2071	2099	--	--	96.50	
2990	4350	5170	5980	4031	5486	6655	7537	1805	2626	3118	3611	1885	2460	2492	2870	3346	114.00	
3580	5210	6190	7160	4031	5486	6655	7537	2147	3123	3709	4294	2242	2926	2964	3413	3979	136.00	
3720	5410	6430	7440	4031	5486	6655	7537	2228	3240	3848	4455	2326	3035	3075	3541	4128	139.00	
2110	--	--	--	2989	--	--	--	1480	--	--	--	1479	--	--	--	--	94.00	
2410	3500	--	--	2989	4129	--	--	1685	2450	--	--	1683	2259	2281	--	--	106.50	
2710	3940	4680	5420	3927	4551	4551	5394	1891	2750	3266	3782	1889	2536	2560	2973	3459	118.50	
--	--	4680	5420	--	--	5873	6955	--	--	3266	3782	--	--	--	2973	3459	118.50	
3060	4450	5280	6110	3927	4551	4551	5394	2125	3090	3670	4249	2123	2849	2877	3340	3887	133.00	
--	--	5280	6110	--	--	5873	6955	--	--	3670	4249	--	--	--	3340	3887	133.00	
3410	4960	5890	6820	3927	4551	4551	5394	2363	3438	4082	4727	2361	3169	3200	3715	4323	147.00	
3410	4960	5890	6820	4258	5873	5873	6955	2363	3438	4082	4727	2361	3169	3200	3715	4323	147.00	
3910	5680	6750	7820	3927	4551	4551	5394	2692	3916	4650	5384	2689	3610	3645	4232	4925	169.00	
3910	5680	--	--	4258	5873	--	--	2692	3916	--	--	2689	3610	3645	--	--	169.00	
--	--	6750	7820	--	--	7105	8411	--	--	4650	5384	--	--	--	4232	4925	169.00	
2550	3700	--	--	2608	4084	--	--	2564	3729	--	--	2315	--	--	3367	--	162.00	
2760	4010	4770	5520	2608	4084	4084	4382	2771	4031	4787	5543	2502	--	3639	4322	5004	174.00	
2760	4010	4770	5520	3384	5291	5291	5675	2771	4031	4787	5543	2502	--	3639	4322	5004	174.00	
3010	4380	5200	6020	2608	4084	4084	4382	3013	4383	5204	6026	2720	--	3957	4699	5441	189.00	
3010	4380	5200	--	3384	5291	5291	--	3013	4383	5204	--	2720	--	3957	4699	--	189.00	
--	--	--	6020	--	--	--	6895	--	--	--	6026	--	--	--	--	5441	189.00	
3260	4740	5620	6510	2608	4084	4084	4382	3253	4732	5619	6507	2937	--	4273	5074	5875	203.00	
3260	4740	--	--	3384	5291	--	--	3253	4732	--	--	2937	--	4273	--	--	203.00	
--	--	5620	6510	--	--	6430	6895	--	--	5619	6507	--	--	--	5074	5875	203.00	
2090	--	--	--	2273	--	--	--	2199	--	--	--	2027	--	--	--	--	140.00	
2490	3630	--	--	2505	3923	--	--	2618	3809	--	--	2413	--	3510	--	--	165.00	
2790	4050	4810	5570	2505	3923	3923	4209	2915	4239	5034	5829	2686	--	3907	4640	5373	182.00	
2790	4050	4810	5570	3252	5086	5086	6630	2915	4239	5034	5829	2686	--	3907	4640	5373	182.00	
3190	4640	5510	6380	2505	3923	3923	4209	3323	4834	5741	6647	3063	--	4456	5291	6126	207.00	
3190	4640	--	--	3252	5086	--	--	3323	4834	--	--	3063	--	4456	--	--	207.00	
--	--	5510	6380	--	--	6183	6630	--	--	5741	6647	--	--	--	5291	6126	207.00	
2780	4040	4800	--	3226	4535	4535	--	3272	4760	5652	--	3201	--	4655	5528	--	207.00	
--	--	4800	--	--	--	5522	--	--	--	5652	--	--	--	--	5528	--	207.00	
3010	4370	5190	--	3226	4535	5522	--	3534	5140	6104	--	3457	--	5028	5971	--	223.00	
--	--	5190	--	--	--	5522	--	--	--	6104	--	--	--	--	5971	--	223.00	
3210	4660	5540	--	3226	4535	5522	--	3761	5470	6496	--	3679	--	5351	6354	--	237.00	
--	--	5540	--	--	--	5522	--	--	--	6496	--	--	--	--	6354	--	237.00	
3700	5380	6390	7400	3226	4535	4535	5194	4320	6283	7461	8639	4225	--	6146	7298	8450	270.00	
3700	5380	--	--	3931	5522	--	--	4320	6283	--	--	4225	--	6146	--	--	270.00	
--	--	6390	7400	--	--	6458	7390	--	--	7461	8639	--	--	--	7298	8450	270.00	

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

2510	3650	4330	5010	2667	2667	2667	2667	1520	2211	2626	3040	1587	2071	2099	2417	2817	96.50	18 5/8 473.08
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10. Stab casing carefully to avoid injuring threads. A good crew coordination is essential.

11. A guiding torque recommendation is listed in the table below for choice of power tong capacity.

Make-up torque table as guide for choice of power tong capacity

Inch	mm	Guiding make-up torque values with API mod. thread compound all grades	
		ft-lb	Nm
14	355.66	12 000	16 500
16	406.4	13 000	17 500
18 5/8	473.1	15 000	20 500
18.8	477.5	15 000	20 500
20	508.0	16 000	22 000
24	609.6	17 000	23 500
24 1/2	622.3	18 000	25 000
26	660.4	20 000	27 500

Commonly experienced torque factors:

- API modified thread compound : 1.0
- Liquid-O-Ring 104 : 0.8
- Jet Lube TF 15 : 0.9
- Bakerlock : 1.3

12. The capacity of the power tong must be at least 60% higher than the guiding torque to break a connection or to make up joints with locking compound.

13. BIG OMEGA™ Connections must be made up with a certain torque value.

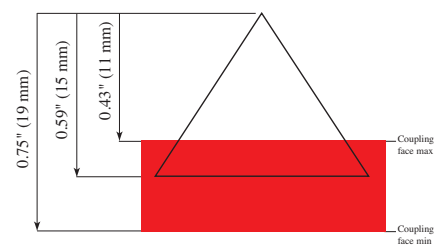
- A triangle is stenciled on each thread. The location is marked by a long white line on the pin-end side.

- To find the proper torque at least 10 power make-ups to the base of this triangle should be carried out. The average torque value of these make-ups is the proper torque to run the total casing string.

- Power make-up procedure should not be interrupted until the proper torque value is reached.

- Every connection should be checked for correct power make-up position (see sketch): the coupling status after power make-up must be within the tolerance area of 0.433" (11 mm) to the apex of triangle.

Make-up position :



BIG OMEGA™ – the World’s Premier Large Casing Connection.

Deep oil and gas exploration means longer casing strings in big sizes. For this application, V & M TUBES, one of the most experienced OCTG manufacturers, offers a most economical solution: BIG OMEGA™, the efficient coupled connection, based on the rugged V & M Omega thread profile.

Design principles and technical features

BIG OMEGA™ Casing can be delivered in OD's ranging from 14 in. to 26 in. and in lengths corresponding to API ranges 2 and 3 (including pup joints).

BIG OMEGA™ is a coupled connection. The pin thread is cut directly into the pipe. The risks associated with weld-on connectors are eliminated.

Standard coupling OD's are identical with API; they may be increased for higher grades and larger wall thicknesses if matched internal pressure resistance is required. The standard coupling length is 10 5/8 in. (269,9 mm) as with API.

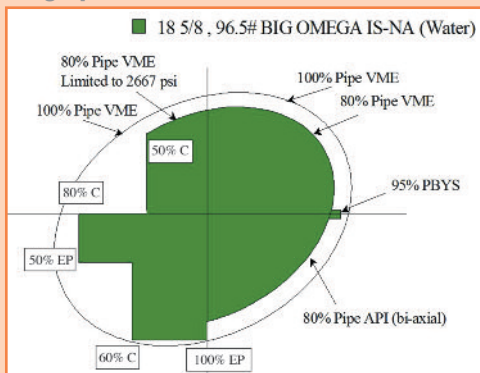
BIG OMEGA™ Casing is a mill threaded pipe. It is available in the quenched and tempered condition in both API and V & M special grades.

BIG OMEGA™ Casing possesses the rugged V & M-developed thread profile featuring:

- 3 TPI
versus Buttress 5 TPI
- Taper 1:75
versus Buttress 1:12
- Bearing flank perpendicular to thread cone
- Stabbing flank 30°
- Crests and roots parallel to cone
- Enhanced thread height 0.0846 in. (2,15 mm)
versus Buttress
- No cross-threading
- Quick running
- Easy stabbing

An internal torque shoulder (-IS option) whenever high torque and/or high axial compression are to be expected.

Your high performance 17.5" drift surface casing



Enhanced compression, bending and pressure resistance

BENEFITS

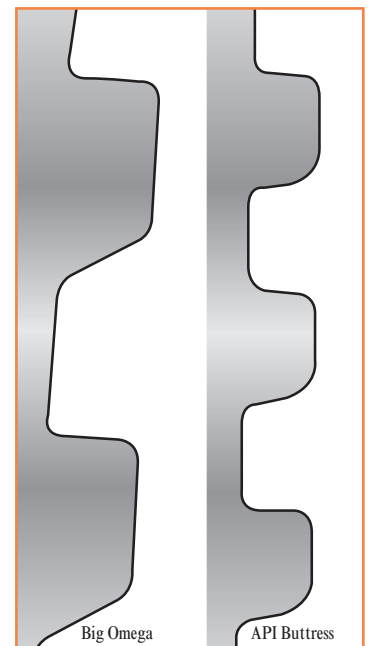
- **Field proven**
- **Easy running**
- **Deep stabbing**
- **No cross-threading**

Field experience

More than 20 years have gone by since the delivery of the first casing string with BIG OMEGA™ connections, an 18 5/8" string which was run in the Khuff Wells near Abu Dhabi, U.A.E.

Since then, internationally proven and accepted, BIG OMEGA™ has been used widely by all major oil companies worldwide, e.g.:

- Europe (including the North Sea)
- USA and Canada (including the Arctic)
- Africa
- South America
- Middle East
- Far East
- China
- Australia



BIG OMEGA™ and API Buttress thread

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.

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