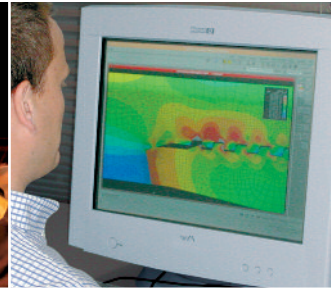


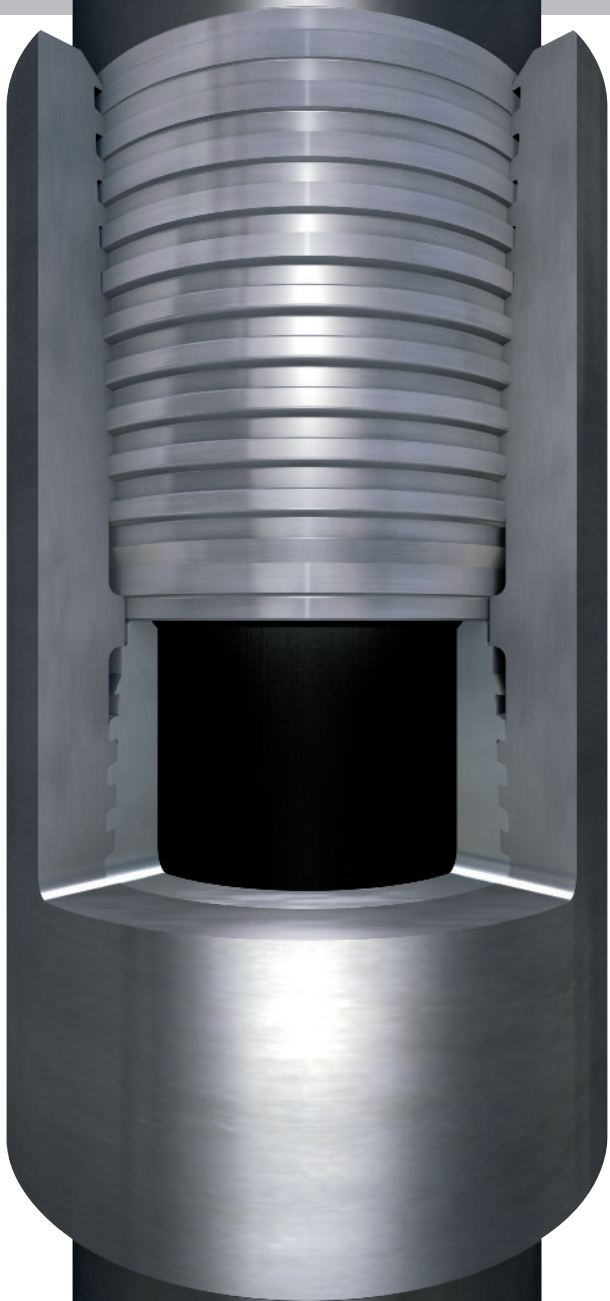
**DINO VAM®**

**Safer. Faster. Stronger.**



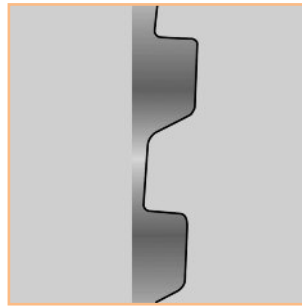
- VAM® 21**
- VAM® TOP**
- VAM® TOP HC**
- VAM® TOP HT**
- VAM® SLIJ II**
- VAM® FJL**
- VAM® HTF**
- DINO VAM®**
- BIG OMEGA™**
- VAM® TOP FE**
- VAM® HW ST**
- VAM® MUST**

 **SUMITOMO METALS**

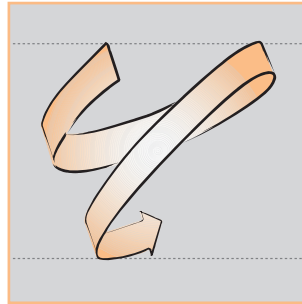


**DINO VAM**

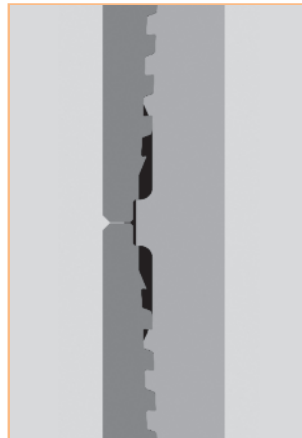
3 TPI, from 9 5/8" to 16"



1.4 turns - Quick make-up



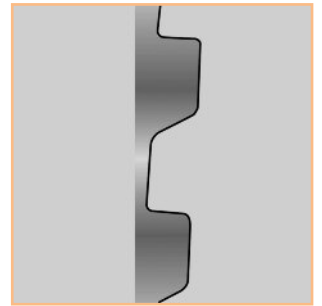
**DINO VAM**



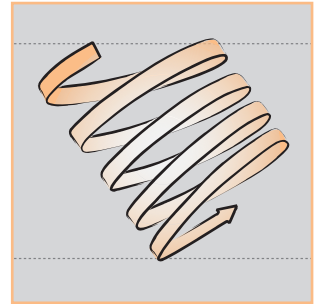
Make-Up arrestor  
Torque controlled

**API Buttress (BTC)**

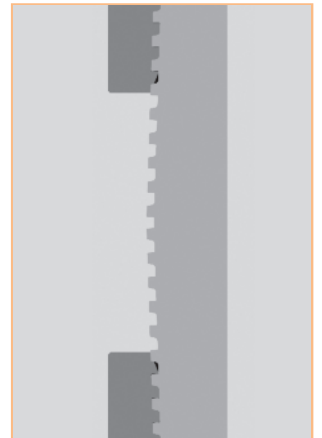
5 TPI



4.4 turns - to make-up



**API Buttress (BTC)**



Variable make-up position  
Triangle controlled



Minimum internal yield pressure are calculated from API Bul. 5 C 3 section 3, formula 3.1.1.

(1000 lb.)			External pressure resistance (psi)						Minimum internal yield pressure (psi)						Nominal weight	Size (OD)	
	110 ksi	125 ksi	55 ksi	80 ksi	90 ksi	95 ksi	110 ksi	125 ksi	55 ksi	80 ksi	90 ksi	95 ksi	110 ksi	125 ksi	lb./ft.	inch mm	
	1128	1282	2020	2370	2450	2470	2470	2470	3520	5120	5760	6080	7040	800	36.00	244.48	
	1260	1432	2570	3080	3260	3330	3470	3530	3950	5745	6464	6823	7900	8977	40.00		
	1381	1570	3250	3810	4010	4130	4410	4620	4350	6327	7118	7514	8700	9886	43.50		
	1493	1697	3890	4760	4990	5090	5300	5630	4720	6865	7724	8153	9440	10727	47.00		
	1710	1943	5130	6620	7110	7340	7950	8440	5450	7927	8918	9414	10900	12386	53.50		
	1857	2110	5990	7900	8560	8880	9770	10540	5950	8655	9736	10277	11900	13523	58.40		
	1898	2156	6230	8250	8970	9320	10280	11130	6090	8858	9965	10519	12180	13841	59.40		
	1944	2209	6500	8660	9440	9810	10860	11800	6250	9091	10227	10795	12500	14205	61.10		
	2079	2363	7140	9860	10800	11260	12570	13780	6720	9775	10996	11607	13440	15273	64.90		
	2244	2550	7750	11270	12600	13170	14820	16390	7340	10676	12011	12678	14680	16682	70.30		
	2244	2550	7900	11500	12930	13650	15400	17060	7500	10909	12273	12955	15000	17045	71.80		
	1882	2139	5860	7700	9490	8650	9490	10220	5874	8544	9612	10146	11747	13349	59.20		9 3/4
	1924	2186	6090	8050	8740	9070	9990	10800	6012	8745	9838	10384	12024	13663	60.20	247.65	
	1998	2270	6230	8260	8980	9320	10290	11140	6092	8861	9968	10522	12184	13845	62.80	9 7/8	
	2105	2392	6830	9150	10000	10400	11560	12610	6443	9371	10543	11128	12885	14642	66.40	250.83	
	2155	2449	7030	9580	10480	10910	12160	13310	6608	9612	10814	11414	13217	15019	67.50		
	2219	2522	7240	10120	11100	11580	12940	14210	6823	9924	11165	11785	13646	15506	68.90		
	2272	2582	7440	10620	11670	12180	13650	15030	7018	10208	11484	12122	14035	15949	70.50		
	1258	1429	1580	1730	1730	1730	1730	1730	3134	4558	5128	5413	6267	712	40.50		273.05
	1431	1626	2090	2470	2560	2590	2610	2610	3581	5209	5860	6186	7163	8140	45.50		
	1602	1820	2700	3210	3410	3490	3660	3740	4029	5860	6593	6959	8058	9157	51.00		
	1754	1993	3390	4020	4170	4290	4610	4850	4432	6447	7252	7655	8864	10073	55.50		
	1922	2184	4160	5160	5460	5580	5880	6070	4880	7098	7985	8428	9759	11090	60.70		
	2088	2373	4920	6310	6760	6960	7510	7920	5327	7749	8717	9202	10655	12108	65.70		
	2141	2433	5170	6670	7170	7410	8030	8520	5471	7957	8952	9449	10941	12433	66.15		
	2340	2660	6100	8060	8760	9090	10010	10820	6017	8752	9846	10393	12033	13674	73.20		
	2460	2796	6670	8910	9720	10110	11220	12210	6348	9233	10388	10965	12696	14427	76.10		
	2541	2887	7000	9480	10370	10800	12030	13160	6572	9559	10754	11351	13144	14936	79.20		
	1474	1675	1510	1630	1630	1630	1630	1630	3072	4468	5027	5306	6144	6981	47.00	11 3/4	
	1701	1933	2070	2440	2530	2550	2570	2570	3563	5183	5831	6155	7127	8098	54.00		
	1903	2163	2660	3170	3360	3440	3600	3680	4006	5826	6555	6919	8011	9104	60.00		
	2070	2352	3290	3870	4060	4180	4470	4690	4374	6363	7158	7556	8749	9941	65.00		
	2246	2553	3970	4880	5130	5240	5470	5760	4767	6934	7801	8235	9535	10835	71.00		
	1706	1939	1130	1140	1140	1140	1140	1140	2735	3978	4475	4723	5469	6215	54.50		13 3/8
	1924	2186	1540	1670	1670	1670	1670	1670	3094	4501	5064	5345	6189	7033	61.00		
	2139	2431	1950	2260	2320	2330	2330	2330	3454	5024	5652	5966	6908	7850	68.00		
	2284	2596	2230	2660	2790	2820	2880	2880	3699	5380	6053	6389	7398	8407	72.00		
	2438	2770	2580	3090	3270	3340	3490	3550	3958	5757	6477	6836	7916	8995	77.00		
	2565	2914	2950	3450	3680	3780	4000	4140	4174	6071	6830	7209	8348	9486	80.70		
	2682	3048	3300	3880	4060	4180	4470	4690	4375	6364	7160	7557	8751	9944	85.00		
	2754	3129	3510	4190	4350	4420	4760	5030	4498	6542	7360	7769	8995	10222	86.00		
	2800	3182	3360	3980	4140	4260	4570	4800	4415	6422	7225	7626	8830	10034	88.20	13 5/8	
	2610	2966	2420	2940	3100	3150	3270	3300	3864	5620	6323	6674	7728	8781	82.50	346.08	
	2778	3157	2870	3370	3590	3680	3880	4010	4125	6000	6750	7125	8250	9375	86.00	14	
	2999	3408	3460	4120	4260	4370	4690	4950	4469	6500	7313	7719	8938	10156	93.00		
	3025	3438	3530	4220	4380	4450	4790	5060	4510	6560	7380	7790	9020	10250	94.80		
	3165	3597	3900	4780	5020	5120	5330	5660	4730	6880	7740	8170	9460	10750	99.00		
	3217	3656	4040	4990	5260	5380	5630	5890	4813	7000	7875	8313	9625	10938	100.00		
	3434	3903	4630	5870	6260	6440	6880	7200	5156	7500	8438	8906	10313	11719	106.00		
	3640	4137	5220	6750	7260	7500	8130	8650	5500	8000	9000	9500	11000	12500	114.00		
	2025	2301	630	630	630	630	630	630	2256	3281	3691	3896	4512	512	65.00		16
	2356	2677	1020	1020	1020	1020	1020	1020	2635	3833	4312	4551	5270	5988	75.00		
	2652	3014	1410	1480	1480	1480	1480	1480	2978	4331	4873	5143	5955	6768	84.00		
	2678	3043	1440	1530	1530	1530	1530	1530	3008	4375	4922	5195	6016	6836	84.80		
	2998	3407	1870	2140	2190	2190	2190	2190	3381	4918	5532	5840	6762	7684	94.50		
	3321	3774	2300	2770	2900	2950	3020	3030	3760	5469	6152	6494	7520	8545	104.00		
	3478	3953	2560	3070	3250	3320	3460	3520	3946	5740	6458	6816	7893	8969	109.00		
	4108	4668	3850	4700	4930	5020	5240	5570	4698	6834	7688	8115	9396	10678	128.00		

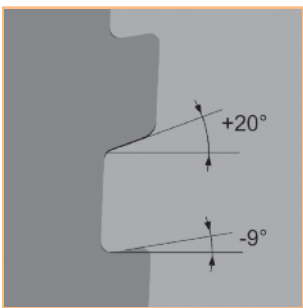
1 ksi = 1000 psi  
1 psi = 0.006895 Mpa  
0.06895 bar



# Safer. Faster. Stronger: **DINO VAM**<sup>®</sup>

## Safer:

- Better stabbing, less handling, increased safety
- Compliant with environmental friendly thread compounds



3 Thread Per Inch  
Designed for no  
cross-threading

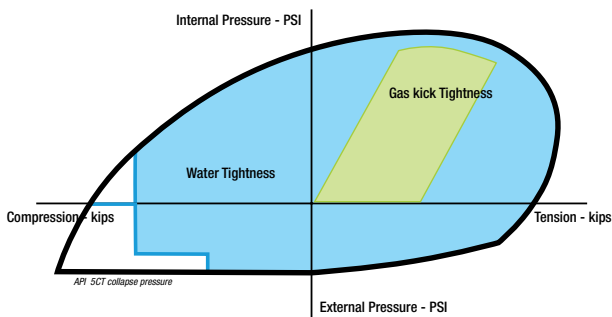
## Faster:

- Easy stabbing
- No cross threading, tolerates misalignment
- Quicker to make-up than BTC
- Make-up controlled though Pin-to-Pin shoulder

## Stronger:

- High galling resistance, even for critical grades
- Immune to jump-in / jump-out
- 100% tensile efficiency for all sizes
- Better sealing performances than a BTC
- Tested for tightness to gas kicks

## Service Load Envelope

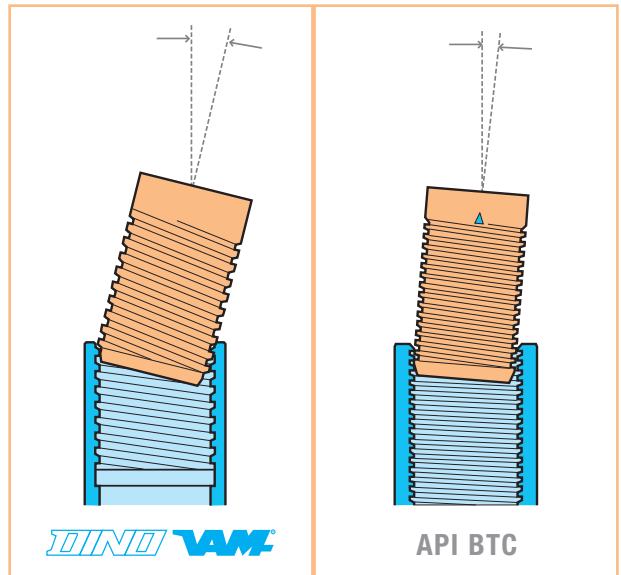


13 3/8" 72# DINO VAM - 12 1/4" drift - intermediate casing  
Test report available upon request

## BENEFITS

- Increased safety on the rig floor with better stabbing
- Reduced running time by 30% compared with API Buttress
- Can be run without torque / turn equipment

+40 % allowable misalignment!



## Field proven:

Rig trial	Running 3.300 ft of 13 3/8" 72# K55 mixed string of DINO VAM and BTC	
	DINO VAM	13.0 joints / hour
	BTC	9.6 joints / hour



## Field records

- Successful field experience for 10 years
- More than 6.000.000 ft run downhole by more than 77 different companies
- Suitable for drilling with casing

# 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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<http://www.sumitomometals.co.jp>

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