

NSMAX™-GR Connection



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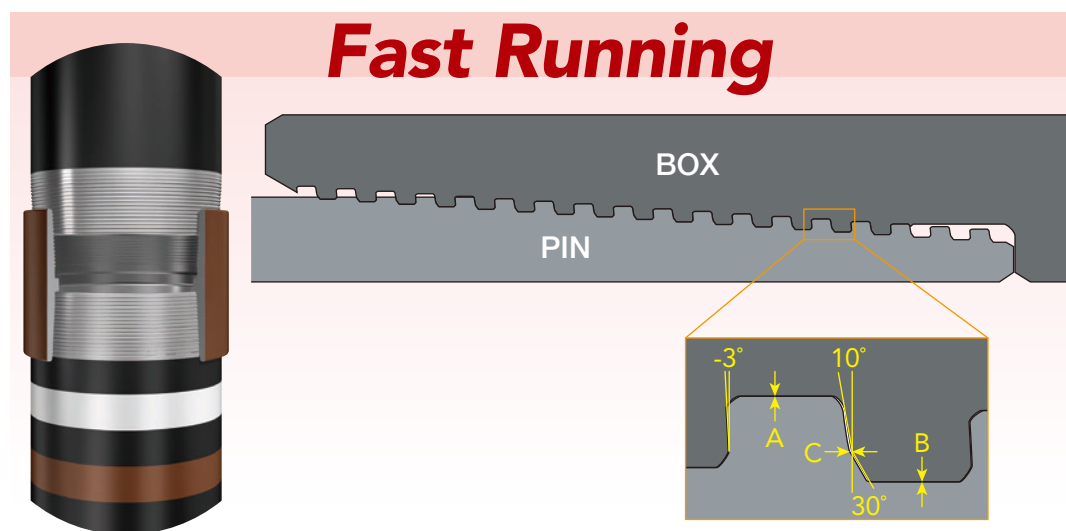
NSMAX™-GR Connection

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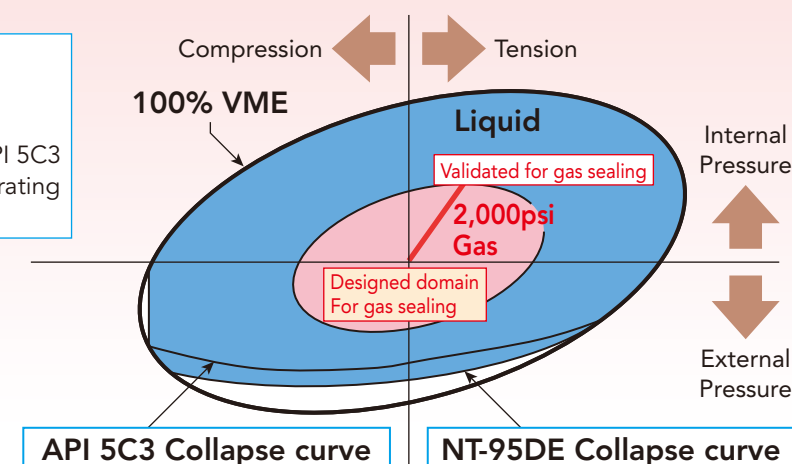
NSMAX™-GR: optimizing your wells Total Cost Savings



Type	Stepped tapered thread	
Threads / inch	3	Quick make-up
A	Controlled Clearance	Sealability
B		
C		
Stabbing angle	10 deg.	Compression (PBYS100%)
	30 deg.	
Load angle	-3 deg.	No cross-threading
		No jump-out

Reliable Performance

Tensile: 100% PBYS
Compression: 100% PBYS
Internal pressure: 100% VME
External pressure: Exceeding API 5C3
API Collapse rating for NT-95DE



Rig Time Saving

- Lesser galling susceptibility versus older connection designs in this segment
- Low risk of cross threading (= stable stabbing)
- Low probability of having to break out / re- make up, results in faster running

Well Integrity

- Cost effective thread and coupled connection option for critical well application
- API 5C5 2017 Cal- I validated using 194 deg F. baking temperature + 2,000psi internal Gas Test
- Good SAF (Stress Amplification Factor) performance

OD	Weight	Wall	drift	t/D	Connection dimension						Connection performance of NT-95DE (min. SMYS: 95 ksi, min. wall factor: 92.5%)					Connection performance of J55 (min. SMYS: 55 ksi, min. wall factor: 92.5%)				
					Group	Connection OD (nom)	Connection ID (nom)	Make-up loss	Coupling length	Critical cross section	Tensile yield strength	Compressive yield strength	Internal yield pressure	External (collapse) pressure	Opt. make-up torque	Tensile yield strength	Compressive yield strength	Internal yield pressure	External (collapse) pressure	Opt. make-up torque
inch	lbs/ft	inch	inch			inch	inch	inch	inch	sqin.	klbs	klbs	psi	psi	ft.lbs	klbs	klbs	psi	psi	ft.lbs
18	94.00	0.500	16.812	0.028	2	18.937	17.000	5.549	12.280	27.489	2,611	2,611	4,880	1,300	28,300	1,512	1,512	2,830	1,060	17,300
	105.00	0.562	16.688	0.031		18.937	16.876	5.549	12.280	30.788	2,925	2,925	5,490	1,810	31,300	1,693	1,693	3,180	1,440	19,100
	117.00	0.625	16.562	0.035	3	19.055	16.750	6.252	13.685	34.116	3,241	3,241	6,100	2,450	40,100	1,876	1,876	3,530	1,820	26,500
	119.00	0.640	16.532	0.036		19.055	16.720	6.252	13.685	34.904	3,316	3,316	6,250	2,610	41,000	1,920	1,920	3,620	1,910	27,100
	128.00	0.688	16.500★	0.038		19.055	16.624	6.252	13.685	37.418	3,555	3,555	6,720	3,180	43,600	2,058	2,058	3,890	2,200	28,800
18 5/8	87.50	0.435	17.567	0.023	1	19.626	17.755	5.614	12.409	24.858	2,362	2,362	4,100	790	27,700	1,367	1,367	2,380	630	16,500
	94.50	0.468	17.501	0.025		19.626	17.689	5.614	12.409	26.696	2,536	2,536	4,420	970	27,900	1,468	1,468	2,560	780	16,600
	96.50	0.486	17.500★	0.026	2	19.626	17.653	5.549	12.280	27.695	2,631	2,631	4,590	1,080	28,100	1,523	1,523	2,660	880	17,300
	101.00	0.510	17.500★	0.027		19.626	17.605	5.549	12.280	29.024	2,757	2,757	4,810	1,250	29,400	1,596	1,596	2,790	1,020	18,100
	106.00	0.531	17.375	0.029		19.626	17.563	5.549	12.280	30.184	2,867	2,867	5,010	1,400	30,500	1,660	1,660	2,900	1,140	18,800
	109.40	0.563	17.311	0.030	3	19.626	17.499	5.549	12.280	31.947	3,035	3,035	5,310	1,650	32,100	1,757	1,757	3,080	1,330	19,700
	112.00	0.579	17.279	0.031		20.000	17.467	6.252	13.685	32.825	3,118	3,118	5,460	1,790	43,500	1,805	1,805	3,160	1,420	25,500
	115.00	0.594	17.249	0.032		20.000	17.437	6.252	13.685	33.648	3,197	3,197	5,610	1,930	44,600	1,851	1,851	3,250	1,510	26,200
	122.00	0.636	17.165	0.034		20.000	17.353	6.252	13.685	35.943	3,415	3,415	6,000	2,340	44,600	1,977	1,977	3,470	1,760	28,100
20	136.00	0.693	17.051	0.037		20.000	17.239	6.252	13.685	39.040	3,709	3,709	6,540	2,960	45,200	2,147	2,147	3,790	2,090	30,400
	94.00	0.438	18.936	0.022	1	21.000	19.124	5.661	12.504	26.918	2,557	2,557	3,850	650	30,700	1,480	1,480	2,230	520	17,500
	106.50	0.500	18.812	0.025	2	21.000	19.000	5.596	12.374	30.631	2,910	2,910	4,390	960	31,000	1,685	1,685	2,540	770	18,500
	117.00	0.563	18.686	0.028		21.000	18.874	5.596	12.374	34.379	3,266	3,266	4,950	1,350	34,400	1,891	1,891	2,860	1,100	20,600
	133.00	0.635	18.542	0.032	3	21.063	18.730	6.315	13.811	38.631	3,670	3,670	5,580	1,900	45,000	2,125	2,125	3,230	1,500	29,300
	144.00	0.693	18.500★	0.035		21.063	18.614	6.315	13.811	42.034	3,993	3,993	6,090	2,430	45,300	2,312	2,312	3,530	1,810	31,600

★ special drift