



JFETIGER™

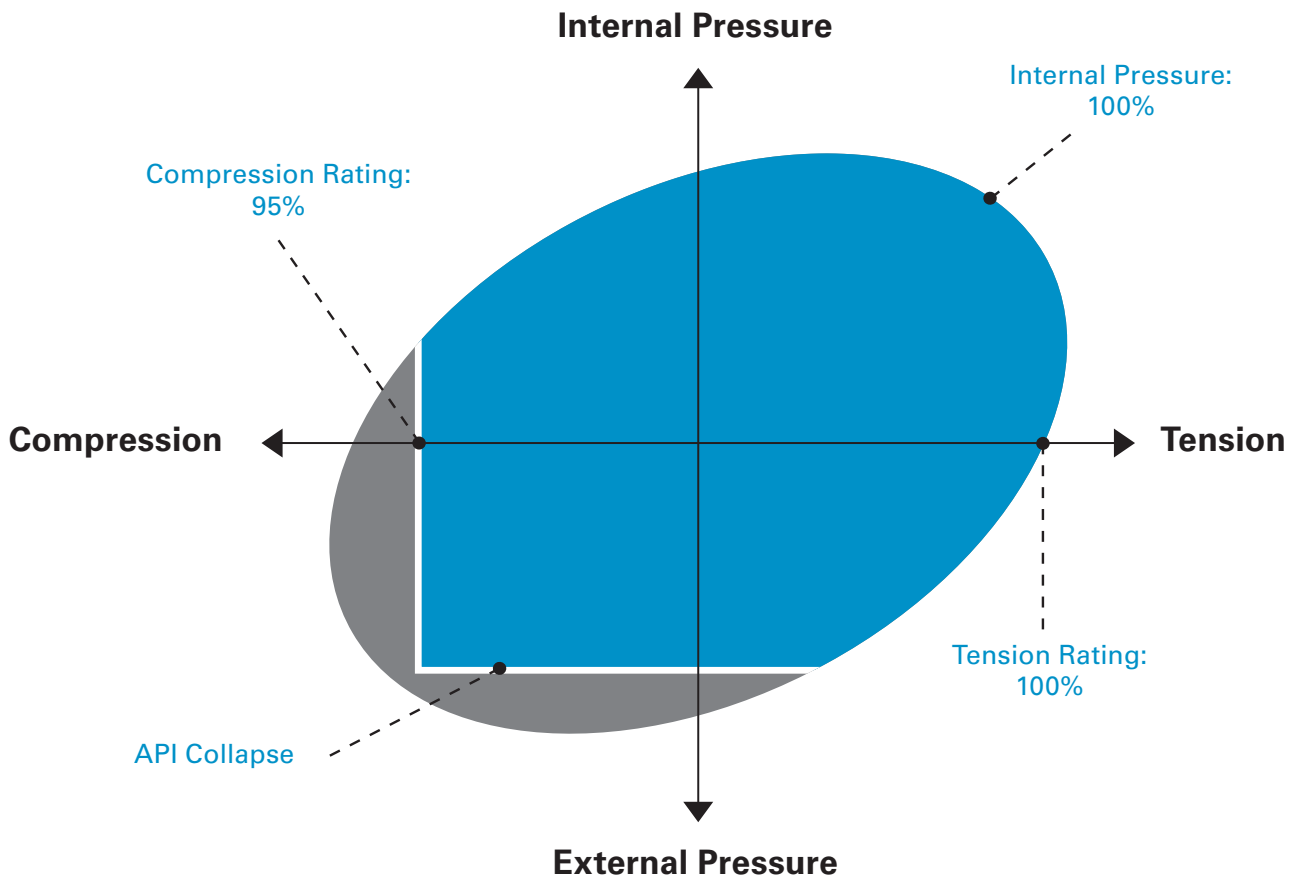
Premium Connection



JFE Steel Corporation



JFETIGER™ Connection Performance Envelope



Available Size Range

7" to 97"

Wall Thickness

Up to 0.700"

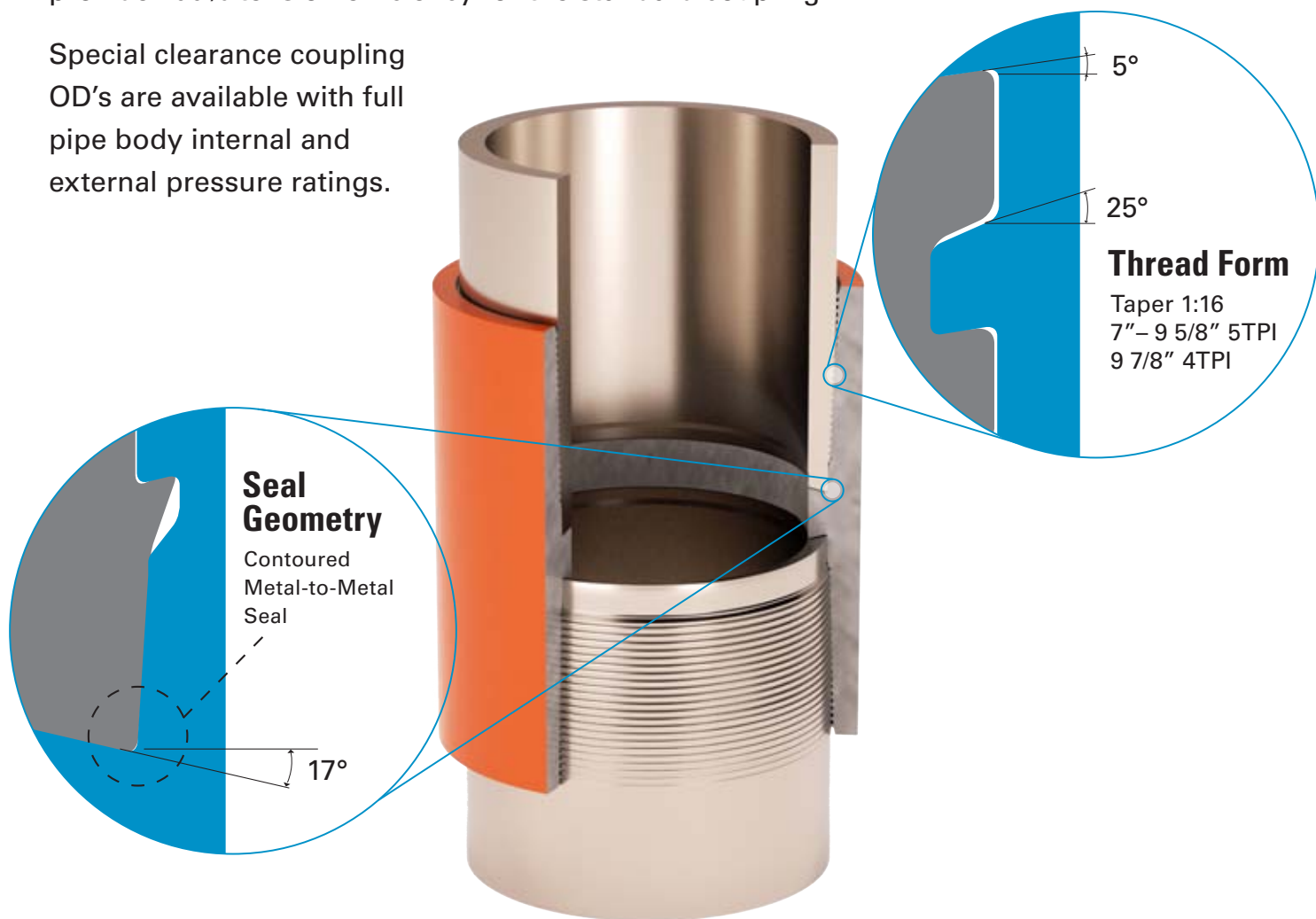
- Run-out pin thread and coupling provide 100% pipe body tension
- Standard and special clearance coupling ODs
- Carbon steel and Chrome grades
- Streamlined ID profile design
- Tested with ISO 13679 2002 and DIS 2009 and field-proven



DESIGN FEATURES

JFETIGER™ has been designed and tested to meet the needs for critical well loads. The design incorporates metal-to-metal seals with a 17° internal torque shoulder to ensure sealing under extreme loads. The negative load flank thread form and coupled design provide 100% tension efficiency for the standard coupling.

Special clearance coupling OD's are available with full pipe body internal and external pressure ratings.



Design Advantage

- Reduced gap between stabbing flanks on the pipe and coupling thread ➡ Increased resistance to damage from compressive loads
- Negative load flank angle on threads ➡ Increased tensile and bending capacity while maintaining gas tight seal
- 25 degree angle for thread stabbing flank ➡ Quick make up and increased resistance to cross threading
- Different corner radius for load flanks for pipe and coupling threads ➡ Increased resistance to galling

JFETIGER™ CASING PERFORMANCE

STANDARD CONNECTIONS			PIPE				CONNECTION				80 KSI		
OD	Nominal Weight	Nominal Wall	Nominal Pipe ID	Pipe Area	Drift	Special Drift	Coupling OD	Coupling ID	Make-Up Loss	Coupling Length	Joint Strength	Internal Pressure	Collapse Pressure
in	lb/ft	in	in	in ²	in	in	in	in	in	in	kips	psi	psi
7	23.00	0.317	6.366	6.655	6.241		7.713	6.300	5.101	11.487	532	6,340	3,830
	26.00	0.362	6.276	7.549	6.151		7.776	6.210	5.101	11.487	604	7,240	5,410
	29.00	0.408	6.184	8.449	6.059		7.815	6.130	5.101	11.487	676	8,160	7,030
	32.00	0.453	6.094	9.317	5.969	6.000	7.829	6.051	5.101	11.487	745	9,060	8,610
	35.00	0.498	6.004	10.172	5.879		7.896	5.990	5.101	11.487	814	9,960	10,190
	38.00	0.540	5.920	10.959	5.795		7.944	5.933	5.101	11.487	877	10,800	11,390
7 5/8	29.70	0.375	6.875	8.541	6.750		8.343	6.839	5.508	12.303	683	6,890	4,790
	33.70	0.430	6.765	9.720	6.640		8.417	6.706	5.508	12.303	778	7,900	6,560
	39.00	0.500	6.625	11.192	6.500		8.500	6.608	5.508	12.303	895	9,180	8,820
	42.80	0.562	6.501	12.470	6.376		8.572	6.521	5.508	12.303	998	10,320	10,820
	45.30	0.595	6.435	13.141	6.310		8.626	6.475	5.508	12.303	1,051	10,920	11,510
	47.10	0.625	6.375	13.744	6.250		8.675	6.434	5.508	12.303	1,100	11,480	12,040
8 5/8	40.00	0.450	7.725	11.557	7.600	7.625	9.562	7.690	5.508	12.303	925	7,300	5,530
	44.00	0.500	7.625	12.763	7.500		9.562	7.609	5.508	12.303	1,021	8,120	6,950
	49.00	0.557	7.511	14.118	7.386		9.670	7.530	5.508	12.303	1,129	9,040	8,570
	52.00	0.595	7.435	15.010	7.310		9.740	7.477	5.508	12.303	1,201	9,660	9,660
	54.00	0.625	7.375	15.708	7.250		9.794	7.436	5.508	12.303	1,257	10,140	10,510
	57.40	0.656	7.313	16.423	7.188		9.850	7.393	5.508	12.303	1,314	10,650	11,240
	58.70	0.687	7.251	17.132	7.126		9.905	7.350	5.508	12.303	1,371	11,150	11,730
	59.20	0.700	7.225	17.428	7.100		9.928	7.332	5.508	12.303	1,394	11,360	11,930
9 5/8	40.00	0.395	8.835	11.454	8.679	8.750	10.485	8.800	5.508	12.303	916	5,750	3,090
	43.50	0.435	8.755	12.559	8.599		10.485	8.732	5.508	12.303	1,005	6,330	3,810
	47.00	0.472	8.681	13.572	8.525		10.520	8.671	5.508	12.303	1,086	6,870	4,760
	53.50	0.545	8.535	15.546	8.379	8.500	10.625	8.550	5.508	12.303	1,244	7,930	6,620
	58.40	0.595	8.435	16.879	8.279	8.375	10.657	8.492	5.508	12.303	1,350	8,650	7,900
	59.40	0.609	8.407	17.250	8.251		10.681	8.472	5.508	12.303	1,380	8,860	8,250
9 7/8	62.80	0.625	8.625	18.162	8.469	8.500	11.063	8.709	5.758	12.803	1,453	8,860	8,260
	65.30	0.650	8.575	18.838	8.419		11.063	8.668	5.758	12.803	1,507	9,220	8,880
	66.40	0.661	8.553	19.134	8.397		11.063	8.650	5.758	12.803	1,531	9,370	9,150
	66.90	0.668	8.539	19.322	8.383		11.063	8.639	5.758	12.803	1,546	9,470	9,330
	67.50	0.678	8.519	19.590	8.363		11.063	8.621	5.758	12.803	1,567	9,610	9,580
	68.00	0.694	8.487	20.017	8.331		11.063	8.595	5.758	12.803	1,601	9,840	9,980
	68.90	0.700	8.475	20.177	8.319		11.063	8.585	5.758	12.803	1,614	9,920	10,120

SPECIAL CLEARANCE CONNECTIONS			PIPE				CONNECTION				80 KSI		
OD	Nominal Weight	Nominal Wall	Nominal Pipe ID	Pipe Area	Drift	Special Drift	Coupling OD	Coupling ID	Make-Up Loss	Coupling Length	Joint Strength	Internal Pressure	Collapse Pressure
in	lb/ft	in	in	in ²	in	in	in	in	in	in	kips	psi	psi
8 5/8	44.00	0.500	7.625	12.763	7.500		SC90 9.485	7.609	5.508	12.303	919	8,120	6,950
	58.70	0.687	7.251	17.132	7.126		SC90 9.740	7.350	5.508	12.303	1,234	11,150	11,730
	59.20	0.700	7.225	17.428	7.100		SC83 9.625	7.332	5.508	12.303	1,157	11,360	11,930
9 5/8	53.50	0.545	8.535	15.546	8.379	8.500	SC84 10.475	8.550	5.508	12.303	1,045	7,930	6,620

Note: All data published in this catalog is accurate at time of publishing and are subject to change. Please consult JFETC.com for current performance and torque data.

	95 KSI				110 KSI				125 KSI			
Compression	Joint Strength	Internal Pressure	Collapse Pressure	Compression	Joint Strength	Internal Pressure	Collapse Pressure	Compression	Joint Strength	Internal Pressure	Collapse Pressure	Compression
kips	kips	psi	psi	kips	kips	psi	psi	kips	kips	psi	psi	kips
506	632	7,530	4,150	601	732	8,720	4,440	695	832	9,910	4,650	790
574	717	8,600	5,890	681	830	9,960	6,230	789	944	11,310	6,450	896
642	803	9,690	7,840	763	929	11,220	8,530	883	1,056	12,750	9,110	1,003
708	885	10,760	9,740	841	1,025	12,460	10,780	974	1,165	14,160	11,710	1,106
773	966	11,830	11,650	918	1,119	13,700	13,030	1,063	1,272	15,560	14,320	1,208
833	1,041	12,830	13,430	989	1,206	14,850	15,130	1,145	1,370	16,880	16,740	1,301
649	811	8,180	5,130	771	940	9,470	5,350	893	1,068	10,760	5,670	1,014
739	923	9,380	7,270	877	1,069	10,860	7,870	1,016	1,215	12,340	8,340	1,154
851	1,063	10,900	10,000	1,010	1,231	12,620	11,080	1,170	1,399	14,340	12,060	1,329
948	1,185	12,250	12,410	1,125	1,372	14,190	13,930	1,303	1,559	16,120	15,350	1,481
999	1,248	12,970	13,670	1,186	1,445	15,020	15,440	1,373	1,643	17,070	17,110	1,560
1,045	1,306	13,630	14,300	1,240	1,512	15,780	16,550	1,436	1,718	17,930	18,700	1,632
878	1,098	8,670	6,020	1,043	1,271	10,040	6,400	1,208	1,445	11,410	6,640	1,372
970	1,212	9,640	7,740	1,152	1,404	11,160	8,420	1,334	1,595	12,680	8,980	1,516
1,073	1,341	10,740	9,700	1,274	1,553	12,430	10,740	1,475	1,765	14,130	11,660	1,677
1,141	1,426	11,470	11,010	1,355	1,651	13,280	12,280	1,569	1,876	15,090	13,440	1,782
1,194	1,492	12,050	12,040	1,418	1,728	13,950	13,490	1,641	1,963	15,850	14,850	1,865
1,248	1,560	12,640	13,110	1,482	1,807	14,640	14,750	1,716	2,053	16,640	16,310	1,950
1,302	1,628	13,240	13,930	1,546	1,885	15,330	16,010	1,790	2,142	17,420	17,760	2,034
1,325	1,656	13,490	14,170	1,573	1,917	15,620	16,410	1,821	2,178	17,750	18,370	2,070
870	1,088	6,820	3,330	1,034	1,260	7,900	3,470	1,197	1,432	8,980	3,530	1,360
954	1,193	7,510	4,130	1,133	1,381	8,700	4,420	1,312	1,570	9,890	4,620	1,491
1,031	1,289	8,150	5,090	1,225	1,493	9,440	5,300	1,418	1,697	10,730	5,630	1,612
1,182	1,477	9,410	7,340	1,403	1,710	10,900	7,950	1,625	1,943	12,390	8,440	1,846
1,283	1,604	10,280	8,880	1,523	1,857	11,900	9,770	1,764	2,110	13,520	10,540	2,004
1,311	1,639	10,520	9,320	1,557	1,897	12,180	10,280	1,803	2,156	13,840	11,130	2,048
1,380	1,725	10,520	9,320	1,639	1,998	12,180	10,290	1,898	2,270	13,840	11,140	2,157
1,432	1,790	10,940	10,070	1,700	2,072	12,670	11,170	1,969	2,355	14,400	12,160	2,237
1,454	1,818	11,130	10,400	1,727	2,105	12,890	11,560	1,999	2,392	14,640	12,610	2,272
1,468	1,836	11,250	10,610	1,744	2,125	13,020	11,810	2,019	2,415	14,800	12,900	2,294
1,489	1,861	11,410	10,910	1,768	2,155	13,220	12,160	2,047	2,449	15,020	13,310	2,326
1,521	1,902	11,680	11,400	1,807	2,202	13,530	12,730	2,092	2,502	15,370	13,970	2,377
1,533	1,917	11,780	11,580	1,821	2,219	13,650	12,940	2,108	2,522	15,510	14,210	2,396

	95 KSI				110 KSI				125 KSI			
Compression	Joint Strength	Internal Pressure	Collapse Pressure	Compression	Joint Strength	Internal Pressure	Collapse Pressure	Compression	Joint Strength	Internal Pressure	Collapse Pressure	Compression
kips	kips	psi	psi	kips	kips	psi	psi	kips	kips	psi	psi	kips
873	1,091	9,640	7,740	1,037	1,264	11,160	8,420	1,200	1,436	12,680	8,980	1,364
1,172	1,465	13,240	13,930	1,392	1,696	15,330	16,010	1,611	1,927	17,420	17,760	1,831
1,099	1,374	13,490	14,170	1,305	1,591	15,620	16,410	1,512	1,808	17,750	18,370	1,718
992	1,241	9,410	7,340	1,179	1,436	10,900	7,950	1,365	1,632	12,390	8,440	1,551

JFETIGER™ connections within a given OD are interchangeable with the following provisions:

- Pin and Box ID are optimized based on the specified pipe weight. When a lighter weight connection is made up with a heavier weight, a small step may occur depending on the differing connection ID's. Refer to the connection dimensional data to determine the step dimension.
- When making up a lighter weight to a heavier weight, the torque values for the lighter weight should be used.
- When making up connections of differing grades (yield strengths), the torque values of the lower yield strength should be used.
- Connection performance is that of the lighter weight/lower yield strength connection.

**Note: For more information pertaining to interchangeability data, please contact JFE-TC.*

JFETIGER™ Test History

Pipe OD	Lb/Ft	Wall	Material Grade	Test Protocol	Tension (% TLE)	Comp. (% TLE)	Collapse (% API)	Bending (°/100ft)
7.000	32.00	0.453	P110	ISO 13679 2002 CAL IV	100%	95%	100%	20°
7.000	38.00	0.540	Q125	ISO DIS 2009 mod. CAL IV	100%	95%	100%	20°
7.625	33.70	0.430	HP2 13Cr-95	ISO 13679 2002 CAL IV	100%	95%	100%	20°
7.625	39.00	0.500	P110	ISO DIS 2009 mod. CAL IV	100%	95%	100%	20°
7.625	47.10	0.625	Q125	ISO DIS 2009 mod. CAL IV	100%	95%	100%	20°
8.625	59.20	0.700	Q125	ISO DIS 2009 mod. CAL IV	83% (SC)	79%	100%	20°
9.625	53.50	0.545	HP2 13Cr-95	ISO 13679 2002 CAL IV	100%	95%	100%	20°
9.625	53.50	0.545	P110	ISO DIS 2009 mod. CAL IV	100%	95%	100%	20°
9.625	53.50	0.545	Q125	ISO DIS 2009 mod. CAL IV	100%	95%	100%	20°
9.875	68.90	0.700	110SS	ISO 13679 2002 CAL IV	100%	95%	100%	20°
9.875	68.90	0.700	UHP 15Cr-125	ISO DIS 2009 mod. CAL IV	100%	95%	100%	20°

TLE: Test Load Envelope

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