OMS™
OILFIELD SERVICES

OMS Specialty Connector & Pipe

Weld-on Connections For Conductor and Surface Casing

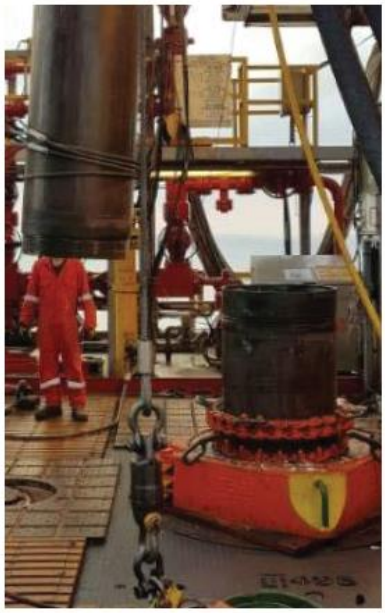
Land, Platform, Jack-Up, Floater, Deepwater Applications

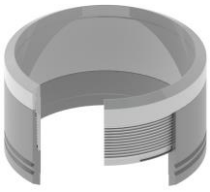
Introduction

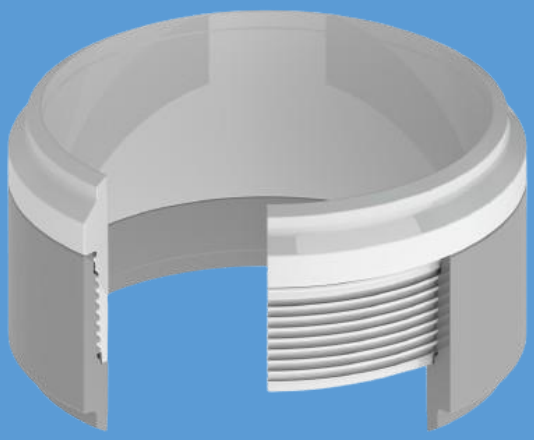
OMS has long established field proven products for conductor and surface casing, the JV family of connections have been designed based on field experience, voice of client, product knowledge, product development, analysis and testing.

All JVDD and JV-LW family connections have been evaluated and tested by an independent engineering consultant in Singapore and Houston, utilizing finite element analysis, elastic-plastic analysis and global analysis for analysing works before physical testing is conducted in accordance to ISO 13679:2002 CAL-1 and API 5C5 CAL-1 (2017). OMS is also ISO 14001:2015, ISO 45001:2018, API Q1, API 5L, API 5CT and API 7-1 Certified.

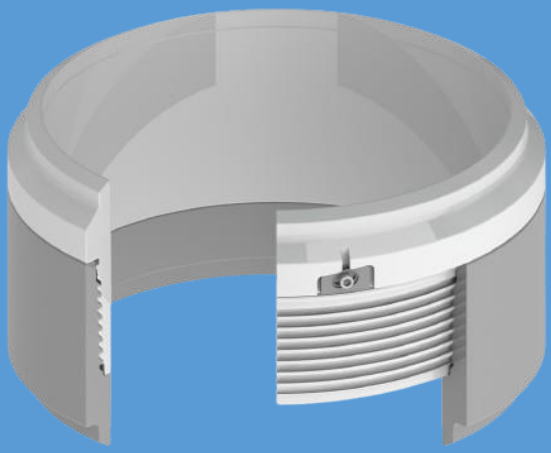
JVDD and JV-LW connections are manufactured at our precision machine shop facilities in Singapore, Indonesia, and Saudi Arabia. These facilities are well equipped with modern infrastructure and professional staff to provide integrated manufacturing, machining and welding services.



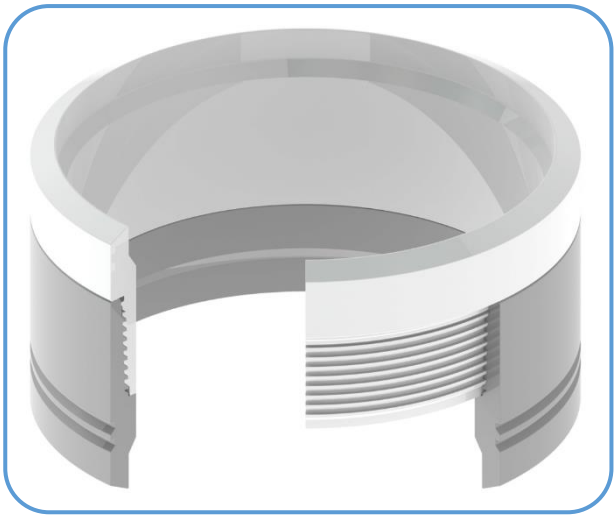
CONNECTOR MODEL	NO OF TURNS FOR ASSEMBLY	KEY FEATURES								PAGE
		Reusable	Drivable	Elastomer Seals	Pre-load Shoulder	Anti-rotation Key	Metal seal Option	Configuration	Flush OD Option	
 JVDD	6	✓	✓	✓	✓		✓	Upset OD	✓	3/4
 JVDD2	3	✓	✓	✓	✓	✓	✓	Upset OD	✓	3/4
 JVDD3	<1	✓	✓	✓	✓	✓	✓	Upset OD	✓	5/6
 JV-LW	6	✓		✓	✓			Upset OD		7
 JVDDF	3	✓	✓	✓	✓		✓	Flush OD/ Flush ID		8
 JVDDX	3	✓	✓	✓	✓			Upset OD		9
 CC	Weight Set	✓	✓	✓	✓	✓		Upset OD		10



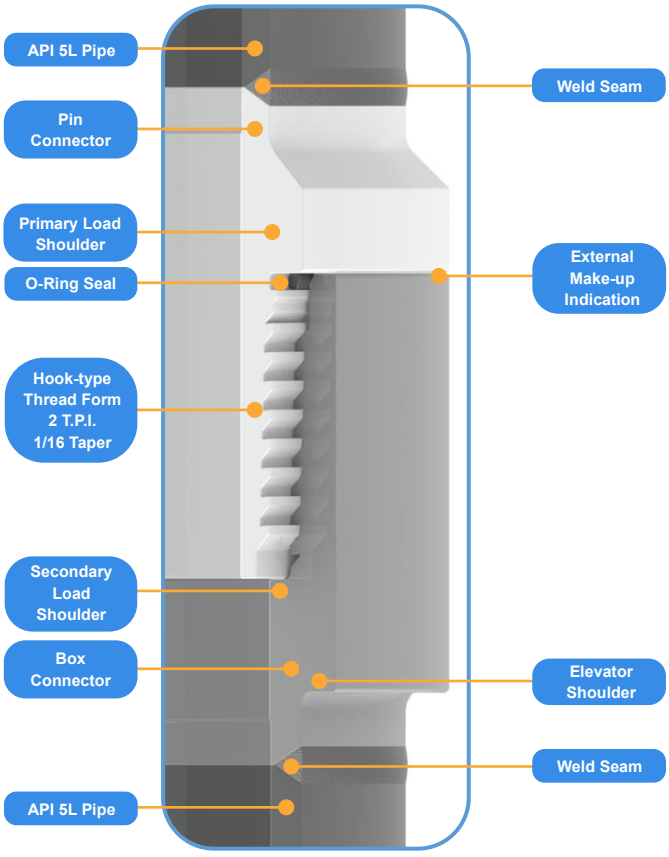
JVDD/JVDD2



JVDD2 with Anti-Rotation Key Option



JVDD/JVDD2 Connector can be configured to be Flush OD and Internal Upset ID



Technical Data

Nominal sizes available	16" to 36"
Configuration	Upset OD in standard connection
Thread form	2 T.P.I., 1/16 Taper
Thread start	1 Start for JVDD, 2 Start for JVDD2
Number of turns to make-up	6 for JVDD, 3 for JVDD2
Primary sealing mechanism	Elastomer
Load Shoulder	Dual
Anti-rotation keys	Not required for JVDD, Optional for JVDD2
Drivable	Yes
Material	70 – 120 ksi yield
Options: Flush OD or ID	Yes
Options: Metal seal options	Yes
Options: Additional anti-rotation device	Yes
Options: Alternate material	Yes

Features	**Benefits**
High strength design	Connector ratings exceed pipe body strength, reliable under extreme conditions.
Low ramp angle thread form	The low ramp angle of the thread form with 2 T.P.I. allows for easy stabbing, eliminates the possibilities of crossed threads, and reduces running time.
Rugged thread form	Eases handling, accommodates for minor thread damage and field repairs.
Hook-type thread form	The hook-type thread form with load flank at reverse angle allows for self-locking and increases tensile capacity.
Dual load shoulders and drivable	The double drive shoulders permit higher make-up torque and increase compression loading for driving. It can withstand the repeated use of the heaviest driving apparatus. The dual shoulder configuration also allows the load flanks to share the overall load evenly, reducing stress hot spots.
Effective pressure sealing	Resilient O-ring is located close to the shoulder of the pin connector and is protected by the primary shoulder. The internal seal surface of the box is protected from handling damage.
Compound radius at elevator shoulder	Enhanced compound radius at JVDD and JVDD2 box elevator shoulder reduces stress levels.
Reusable	All JVDD and JVDD2 connectors are reusable.

JVDD/JVDD2 is applicable for the following rigs:

Land Rig

Swamp Barge Rig

Jack Up Rig

Platform Rig

Tender Assisted Rig

Drill Ship

Semi Submersible

JVDD/JVDD2 Connector Performance
(For standard external upset connectors)

Pipe OD (in)	Pipe WT (in)	Plain End Weight (lb/ft)	Connector Model	Material Yield (ksi)	Connector OD (in)	Connector ID (in)	Tensile Strength (kips)	Compressive Strength (psi)	Bending Strength (kips-ft)	Internal Pressure Capacity (psi)
16	0.438	72.86	JVDD/JVDD2	70	17.500	15.000	1,499	1,499	473	3,350
	0.500	82.85				14.875	1,704	1,704	534	3,830
	0.625	102.72				14.750	2,089	2,089	644	4,790
18-5/8	0.438	85.16	JVDD/JVDD2	70	20.125	17.625	1,752	1,752	649	2,880
	0.500	96.88				17.500	1,993	1,993	733	3,290
	0.625	120.26				17.375	2,456	2,456	891	4,110
20	0.438	91.59	JVDD/JVDD2	70	21.500	18.750	1,884	1,884	751	2,680
	0.500	104.23				18.750	2,132	2,132	834	3,060
	0.625	129.45				18.688	2,260	2,260	881	3,790
	0.688	142.03				18.562	2,518	2,518	976	4,210
	0.750	154.34			21.750	18.500	2,644	2,644	1,021	4,450
	0.812	166.56				18.376	2,896	2,896	1,111	4,890
	0.875	178.89				18.250	3,149	3,149	1,201	5,340
	1.000	203.11				18.000	3,470	3,648	1,374	5,550
22	0.438	100.96	JVDD/JVDD2	70	23.500	20.750	2,077	2,077	915	2,440
	0.500	114.92				20.750	2,354	2,354	1,019	2,780
	0.625	142.81				20.688	2,495	2,495	1,077	3,440
	0.688	156.74				20.562	2,781	2,781	1,193	3,830
	0.750	170.37			23.750	20.500	2,921	2,921	1,250	4,040
	0.812	183.92				20.376	3,202	3,202	1,362	4,450
	0.875	197.60				20.250	3,481	3,481	1,472	4,850
	1.000	224.49				20.000	3,821	4,034	1,687	5,080
24	0.500	125.61	JVDD/JVDD2	70	25.500	22.750	2,575	2,575	1,222	2,550
	0.625	156.17				22.688	2,730	2,730	1,292	3,150
	0.688	171.45				22.562	3,044	3,044	1,433	3,510
	0.750	186.41			25.750	22.500	3,197	3,197	1,501	3,700
	0.812	201.28				22.376	3,506	3,506	1,637	4,070
	0.875	216.31				22.250	3,812	3,812	1,771	4,440
	1.000	245.87				22.000	4,172	4,420	2,032	4,680
26	0.500	136.30	JVDD/JVDD2	70	27.500	24.750	2,797	2,797	1,443	2,360
	0.625	169.54				24.688	2,965	2,965	1,527	2,910
	0.688	186.16				24.562	3,306	3,306	1,694	3,240
	0.750	202.44			27.750	24.500	3,474	3,474	1,775	3,420
	0.812	218.64				24.376	3,807	3,807	1,936	3,750
	0.875	235.01				24.250	4,144	4,144	2,097	4,100
	1.000	267.25				24.000	4,523	4,807	2,409	4,350
28	0.500	146.99	JVDD/JVDD2	70	29.500	26.750	3,018	3,018	1,683	2,190
	0.625	182.90				26.688	3,200	3,200	1,781	2,700
	0.688	200.87				26.562	3,569	3,569	1,977	3,010
	0.750	218.48			29.750	26.500	3,750	3,750	2,073	3,170
	0.812	236.00				26.376	4,111	4,111	2,262	3,480
	0.875	253.72				26.250	4,475	4,475	2,451	3,800
	1.000	288.63				26.000	4,874	5,193	2,819	4,050
30	0.500	157.68	JVDD/JVDD2	70	31.500	28.625	3,244	3,244	1,958	2,040
	0.625	196.26				28.563	3,476	3,476	2,070	2,550
	0.688	215.58				28.438	3,868	3,868	2,294	2,810
	0.750	234.51				28.375	4,065	4,065	2,405	3,010
	0.812	253.36				28.250	4,454	4,454	2,624	3,300
	0.875	272.43				28.125	4,841	4,841	2,841	3,510
	1.000	310.01		90	31.625	27.750	5,492	5,492	3,179	4,220
	1.250	384.17				27.375	6,953	6,953	3,973	5,380
	1.500	457.00				27.000	7,657	8,394	4,735	6,460
32	0.500	168.37	JVDD/JVDD2	70	33.500	30.625	3,464	3,464	2,238	1,910
	0.625	209.62				30.563	3,715	3,715	2,367	2,390
	0.688	230.29				30.438	4,134	4,134	2,624	2,630
	0.750	250.55				30.375	4,345	4,345	2,752	2,820
	0.812	270.72				30.250	4,762	4,762	3,004	3,090
	0.875	291.14				30.125	5,177	5,177	3,253	3,300
	1.000	331.39		90	33.625	29.750	5,878	5,878	3,647	3,950
	1.250	410.90				29.375	7,445	7,445	4,564	5,040
	1.500	489.07				29.000	8,183	8,993	5,446	6,070
36	0.750	282.62	JVDD/JVDD2	70	37.250	34.125	4,870	4,870	3,465	2,520
	0.812	305.44				34.000	5,339	5,339	3,785	2,760
	0.875	328.55				33.875	5,805	5,805	4,101	2,970
	1.000	374.15		90	37.250	33.000	7,906	7,906	5,442	4,290
	1.250	464.35				32.625	9,645	9,645	6,568	5,270
	1.500	553.21				32.250	11,365	11,365	7,656	5,840
	1.750	640.73				32.000	11,711	12,301	8,360	5,840
	2.000	726.92		120	37.250	32.000	15,614	16,401	11,147	7,790

All data presented herein are for quick reference. Kindly contact your OMS representative for more up-to-date information.

The connector above is applicable for the following rigs:

Land Rig

Swamp Barge Rig

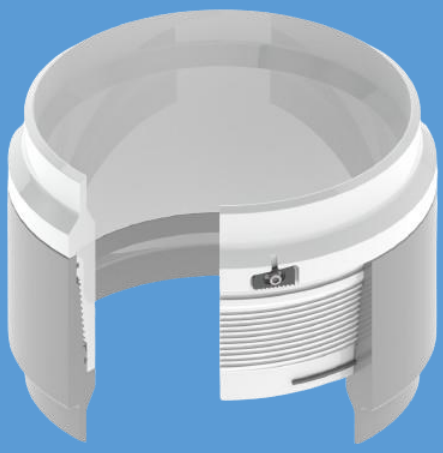
Jack Up Rig

Platform Rig

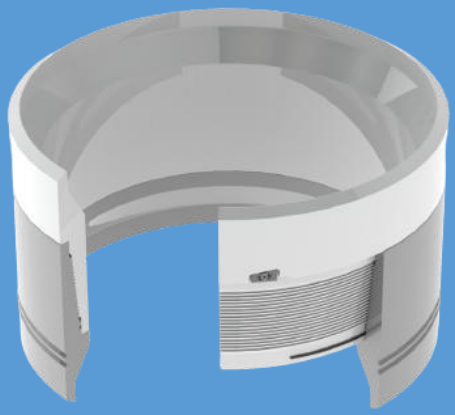
Tender Assisted Rig

Drill Ship

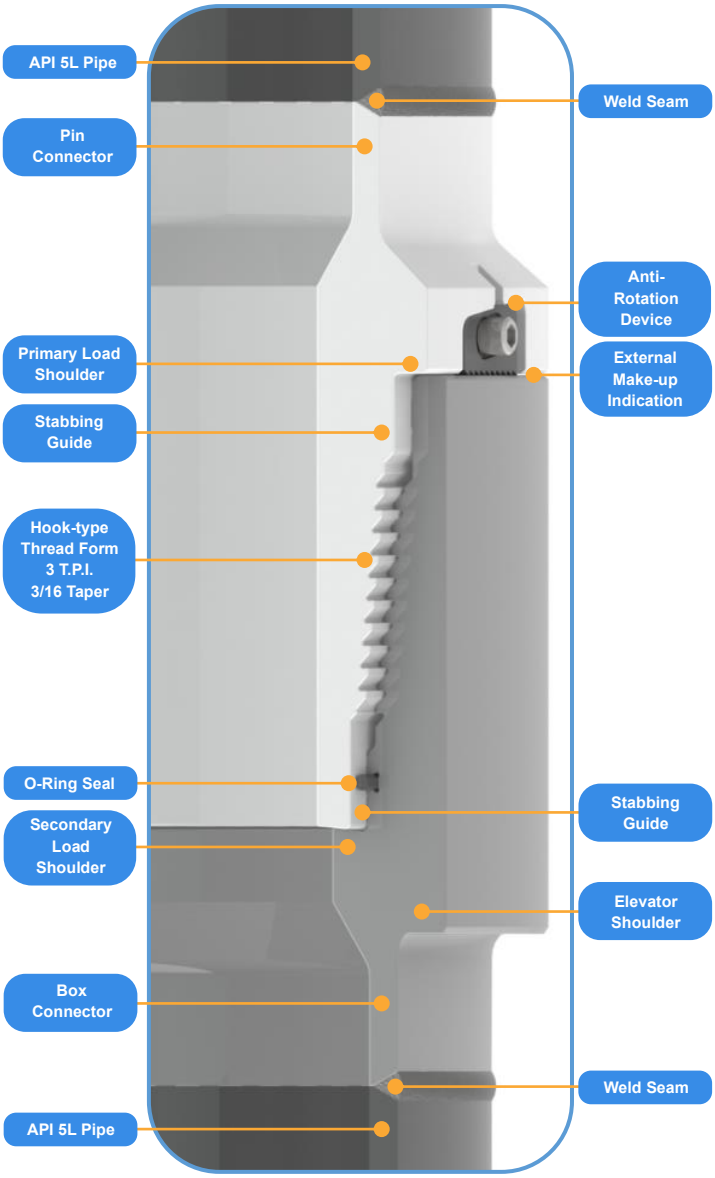
Semi Submersible



JVDD3



JVDD3 Connector can be configured to be Flush OD and Internal Upset ID



Technical Data

Nominal sizes available	16” to 36”
Configuration	Upset OD in standard connection
Thread form	3 T.P.I., 3/16 Taper
Thread start	3
Number of turns to make-up	<1
Primary sealing mechanism	Elastomer
Load Shoulder	Dual
Anti-rotation keys	Yes
Drivable	Yes
Material	70 – 120 ksi yield
Options: Flush OD or ID	Yes
Options: Metal seal options	Yes
Options: Additional anti-rotation device	Yes for additional keys on top of the 2 that is included in the standard model
Options: Alternate material	Yes

Features	**Benefits**
High strength design	Connector ratings exceed pipe body strength, reliable under extreme conditions.
High cone thread form	The high cone angle of the thread form with 3 T.P.I. allows for less than one turn make-up.
Dual stabbing guides	Presence of dual stabbing guides eliminates the possibilities of crossed threads and reduces the field running time.
Hook-type thread form	The hook-type thread form with load flank at reverse angle allows for self-locking and increases tensile capacity.
Dual load shoulders and drivable	The double drive shoulders permit higher make-up torque and increase compression loading for driving. It can withstand the repeated use of the heaviest driving apparatus. The dual shoulder configuration also allows the load flanks to share the overall load evenly, reducing stress hot spots.
Effective pressure sealing	O-ring is situated close to the internal shoulder of the box connector which provides good protection and reduces pressure load on Box profile area.
Compound radius at elevator shoulder	Enhanced compound radius at JVDD3 box elevator shoulder reduces stress levels.
Anti-rotation device	A pair of anti-rotation devices is added as an additional measure to prevent back-off.
Reusable	All JVDD3 connectors are reusable.

The connector above is applicable for the following rigs:

Jack Up Rig

Platform Rig

Tender Assisted Rig

Drill Ship

Semi Submersible

JVDD3 Connector Performance
(For standard external upset connectors)

Pipe OD (in)	Pipe WT (in)	Plain End Weight (lb/ft)	Connector Model	Material Yield (ksi)	Connector OD (in)	Connector ID (in)	Tensile Strength (kips)	Compressive Strength (psi)	Bending Strength (kips-ft)	Internal Pressure Capacity (psi)
16	0.438	72.86	JVDD3	70	17.500	14.000	1,499	1,499	473	3,350
	0.500	82.85					1,704	1,704	534	3,830
	0.625	102.72					2,088	2,113	652	4,790
18-5/8	0.438	85.16	JVDD3	70	20.130	16.625	1,752	1,752	649	2,880
	0.500	96.88					1,993	1,993	733	3,290
	0.625	120.26					2,442	2,474	898	4,110
20	0.438	91.59	JVDD3	70	21.500	18.000	1,884	1,884	751	2,680
	0.500	104.23					2,144	2,144	850	3,060
	0.625	129.45					2,627	2,663	1,042	3,830
	0.688	142.03					2,627	2,922	1,137	4,210
	0.750	154.34			22.500	18.000	3,175	3,175	1,227	4,590
	0.812	166.56					3,426	3,426	1,316	4,970
	0.875	178.89					3,680	3,680	1,405	5,360
	1.000	203.11					4,178	4,178	1,576	6,130
22	0.438	100.96	JVDD3	70	23.500	20.000	2,077	2,077	915	2,440
	0.500	114.92					2,364	2,364	1,035	2,780
	0.625	142.81					2,897	2,938	1,272	3,480
	0.688	156.74					2,897	3,224	1,388	3,830
	0.750	170.37			24.500	20.000	3,505	3,505	1,501	4,180
	0.812	183.92					3,784	3,784	1,611	4,520
	0.875	197.60					4,065	4,065	1,721	4,870
	1.000	224.49					4,618	4,618	1,933	5,570
24	0.500	125.61	JVDD3	70	25.500	22.000	2,584	2,584	1,239	2,550
	0.625	156.17					3,167	3,213	1,525	3,190
	0.688	171.45					3,167	3,527	1,665	3,510
	0.750	186.41			26.500	22.000	3,835	3,835	1,801	3,830
	0.812	201.28					4,141	4,141	1,935	4,140
	0.875	216.31					4,450	4,450	2,069	4,470
	1.000	245.87					5,058	5,058	2,327	5,100
26	0.500	136.30	JVDD3	70	27.500	24.000	2,804	2,804	1,461	2,360
	0.625	169.54					3,436	3,488	1,801	2,940
	0.688	186.16					3,436	3,830	1,968	3,240
	0.750	202.44			28.500	24.000	4,165	4,165	2,129	3,530
	0.812	218.64					4,498	4,498	2,289	3,830
	0.875	235.01					4,835	4,835	2,448	4,120
	1.000	267.25					5,498	5,498	2,758	4,710
28	0.500	146.99	JVDD3	70	29.500	26.000	3,024	3,024	1,702	2,190
	0.625	182.90					3,706	3,763	2,099	2,730
	0.688	200.87					3,706	4,132	2,295	3,010
	0.750	218.48			30.500	26.000	4,494	4,494	2,485	3,280
	0.812	236.00					4,855	4,855	2,673	3,550
	0.875	253.72					5,219	5,219	2,860	3,830
	1.000	288.63					5,938	5,938	3,225	4,380
30	0.500	157.68	JVDD3	70	32.500	27.750	3,244	3,244	1,961	2,040
	0.625	196.26					4,037	4,037	2,420	2,550
	0.688	215.58					4,435	4,435	2,648	2,810
	0.750	234.51					4,824	4,824	2,868	3,060
	0.812	253.36					5,212	5,212	3,086	3,320
	0.875	272.43					5,604	5,604	3,304	3,570
	1.000	310.01					5,735	6,377	3,729	4,080
	1.250	384.17		90	32.500	27.500	7,373	10,161	5,844	6,560
	1.500	457.00		100	32.500	27.000	8,192	13,430	7,597	8,750
32	0.500	168.37	JVDD3	70	34.500	29.750	3,464	3,464	2,238	1,910
	0.625	209.62					4,312	4,312	2,765	2,390
	0.688	230.29					4,737	4,737	3,025	2,630
	0.750	250.55					5,154	5,154	3,279	2,870
	0.812	270.72					5,569	5,569	3,529	3,110
	0.875	291.14					5,989	5,989	3,780	3,350
	1.000	331.39					6,124	6,817	4,270	3,830
	1.250	410.90		90	34.500	29.500	7,874	10,868	6,701	6,150
	1.500	489.07		100	34.500	29.000	8,749	14,373	8,726	8,200
36	0.750	282.62	JVDD3	70	37.250	32.000	5,814	5,814	4,183	2,550
	0.812	305.44					6,283	6,283	4,505	2,760
	0.875	328.55					6,759	6,759	4,829	2,980
	1.000	374.15					7,697	7,697	5,461	3,400
	1.250	464.35					8,144	9,552	6,684	4,250
	1.500	553.21		90	37.250	32.000	10,471	13,782	9,223	6,560
	1.750	640.73		120	37.250	32.000	13,961	18,376	12,297	9,920
	2.000	726.92					13,961	18,376	12,297	9,920

All data presented herein are for quick reference. Kindly contact your OMS representative for more up-to-date information.

The connector above is applicable for the following rigs:

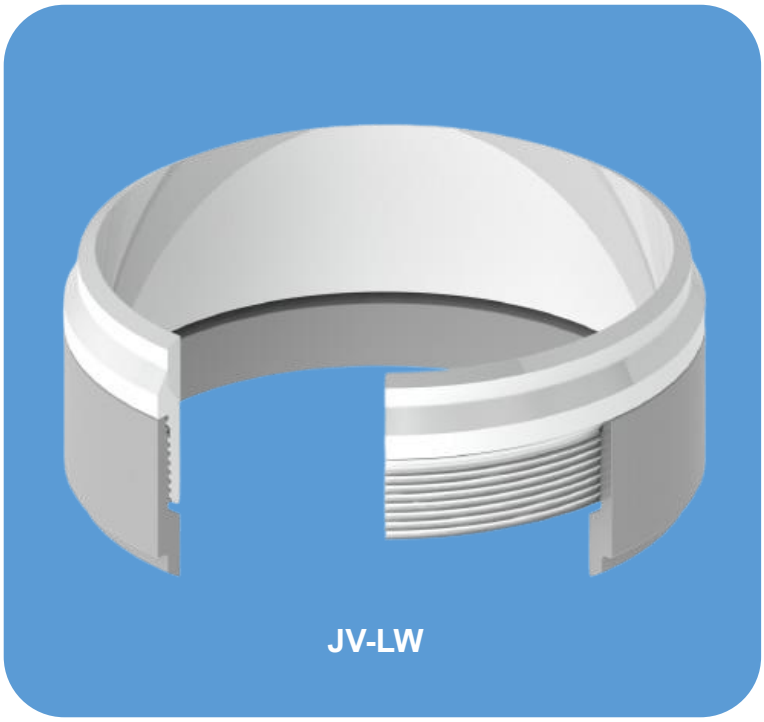
Jack Up Rig

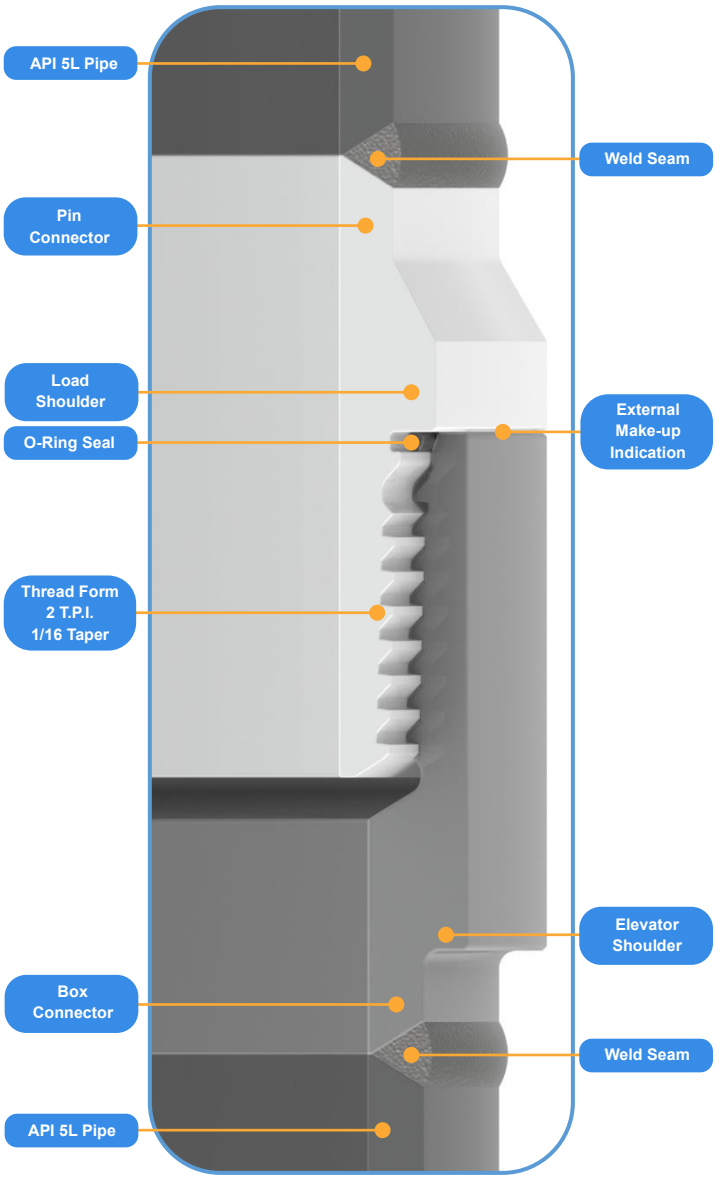
Platform Rig

Tender Assisted Rig

Drill Ship

Semi Submersible





Technical Data

Nominal sizes available	16” to 36”
Configuration	Upset OD
Thread form	2 T.P.I., 1/16 Taper
Thread start	1
Number of turns to make-up	6
Primary sealing mechanism	Elastomer
Load Shoulder	Single
Anti-rotation keys	Not required
Drivable	No
Material	60 ksi yield
Options: Flush ID	Yes
Options: Metal Seal	No
Options: Alternate material	Yes

Features	Benefits
Low ramp angle thread form	The low ramp angle of the thread form with 2 T.P.I. allows for easy stabbing, eliminates the possibilities of crossed threads, and reduces running time.
Rugged thread form	Eases handling, accommodates minor thread damage and field repairs.
Effective pressure sealing	Resilient O-ring is situated close to the shoulder of the pin connector and is protected by the primary shoulder. The internal seal surface of the box is protected from handling damage.
Reusable	All JV-LW connectors are reusable.

JV-LW Connector Performance

Pipe OD (in)	Pipe WT (in)	Plain End Weight (lb/ft)	Connector Model	Material Yield (ksi)	Connector OD (in)	Connector ID (in)	Tensile Strength (kips)	Compressive Strength (psi)	Bending Strength (kips-ft)	Internal Pressure Capacity (psi)
24	0.688	171.45	JV-LW	60	25.500	22.625	2,840	1,563	1,343	3,050
	0.812	201.28			25.750	22.376	3,370	2,169	1,576	3,600
30	0.750	234.51	JV-LW	60	31.375	28.500	3,080	3,020	1,832	2,280
	0.875	272.43				28.250	3,750	3,020	2,211	2,790

All data presented herein are for quick reference. Kindly contact your OMS representative for more up-to-date information.

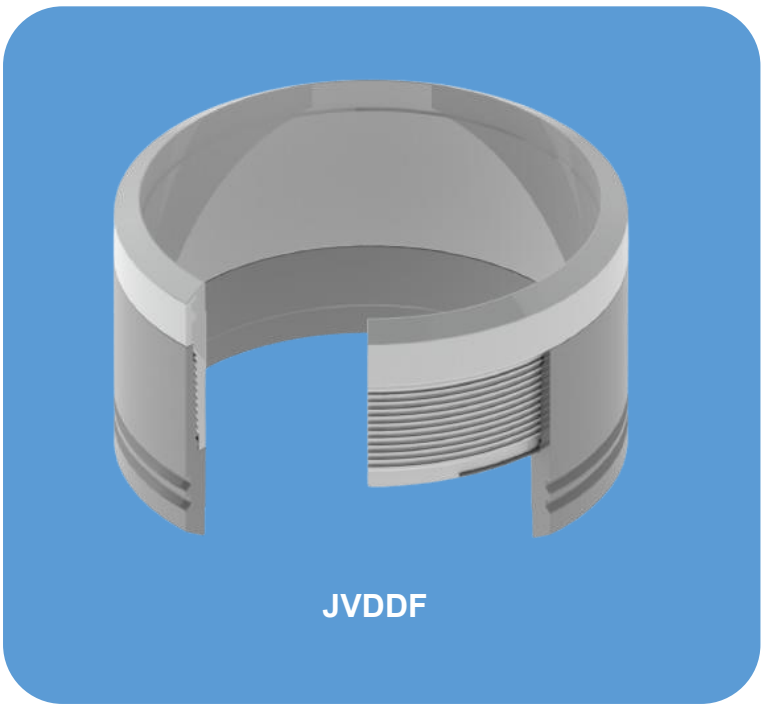
The connector above is applicable for the following rigs:

Land Rig

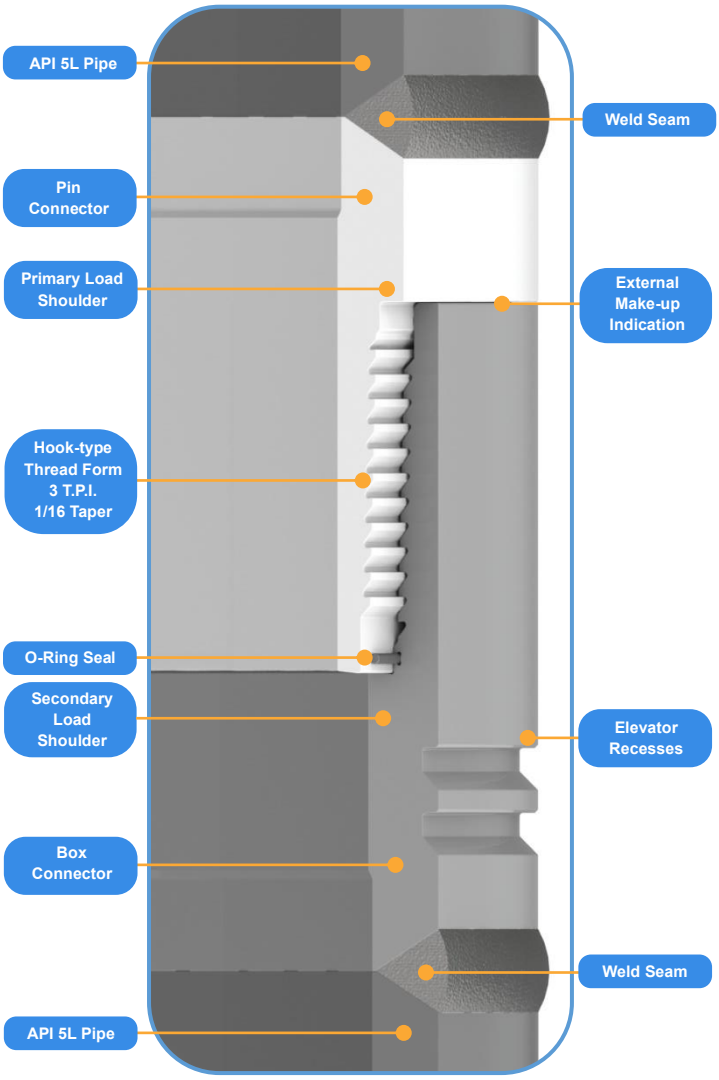
Swamp Barge Rig

Jack Up Rig

Platform Rig



JVDDF



Technical Data

Nominal sizes available	20" to 36"
Configuration	Flush OD/ID
Thread form	3 T.P.I., 1/16 Taper
Thread start	3
Number of turns to make-up	3
Primary sealing mechanism	Elastomer
Load Shoulder	Dual
Anti-rotation keys	Not required
Drivable	Yes
Material	90 and 120 ksi yield
Options: Flush ID	Yes
Options: Metal Seal	Yes
Options: Alternate material	Yes

Features	Benefits
High strength design	Connector ratings to match at least 70% of pipe body strength, reliable under difficult conditions.
Low ramp angle thread form	The low ramp angle of the thread form with 3 T.P.I. is necessary to fit the thread in this size envelope but provides for good alignment while stabbing and make-up. This eliminates the possibilities of crossed threads and reduces running time.
Hook-type thread form	The hook-type thread form with load flank at reverse angle allows for self-locking and increases tensile capacity.
Dual load shoulders and drivable	The double drive shoulders permit higher make-up torque and increase compression loading for driving. It can withstand the repeated use of the heaviest driving apparatus. The dual shoulder configuration also allows the load flanks to share the overall load evenly, reducing stress hot spots.
Effective pressure sealing	O-ring is situated close to the internal shoulder of the box connector which provides good protection and reduces pressure load on box profile area.
Reusable	All JVDDF connectors are reusable.

JVDDF Connector Performance

Pipe OD (in)	Pipe WT (in)	Plain End Weight (lb/ft)	Connector Model	Material Yield (ksi)	Connector OD (in)	Connector ID (in)	Tensile Strength (kips)	Compressive Strength (psi)	Bending Strength (kips-ft)	Internal Pressure Capacity (psi)
20	1.000	203.11	JVDDF	90	20.060	17.875	2,634	2,634	982	4,420
				120	20.060	17.875	3,712	3,712	1,385	6,240
24	1.000	245.87	JVDDF	90	24.060	21.875	3,207	3,207	1,463	3,690
				120	24.060	21.875	4,518	4,518	2,061	5,200
26	1.000	267.25	JVDDF	90	26.060	23.875	3,494	3,494	1,739	3,400
				120	26.060	23.875	4,921	4,921	2,450	4,800
30	1.000	310.01	JVDDF	90	30.060	27.875	4,067	4,067	2,363	2,950
				120	30.060	27.875	5,728	5,728	3,329	4,160
36	1.000	374.15	JVDDF	90	36.060	33.875	4,927	4,927	3,478	2,460
				120	36.060	33.875	6,938	6,938	4,898	3,470

All data presented herein are for quick reference. Kindly contact your OMS representative for more up-to-date information.

The connector above is applicable for the following rigs:

Land Rig

Swamp Barge Rig

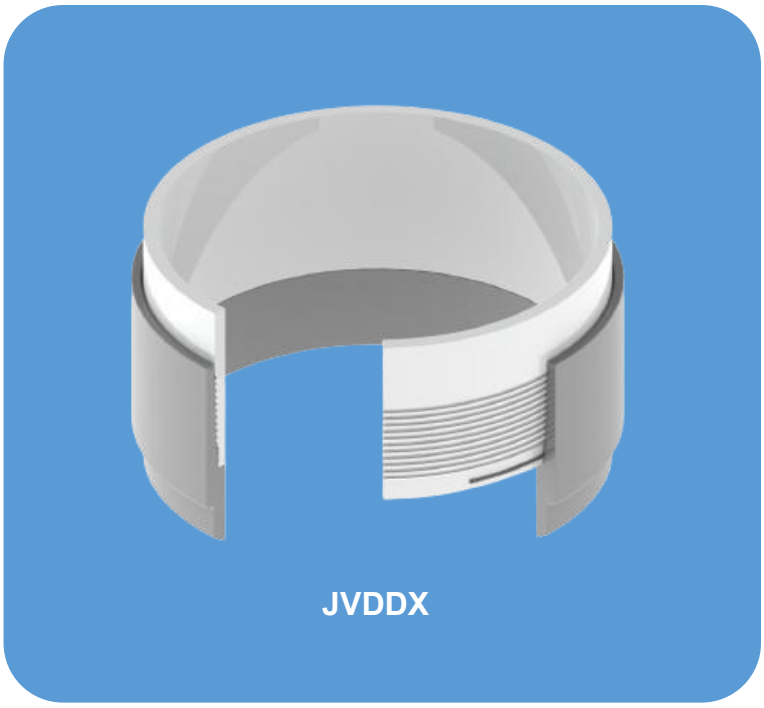
Jack Up Rig

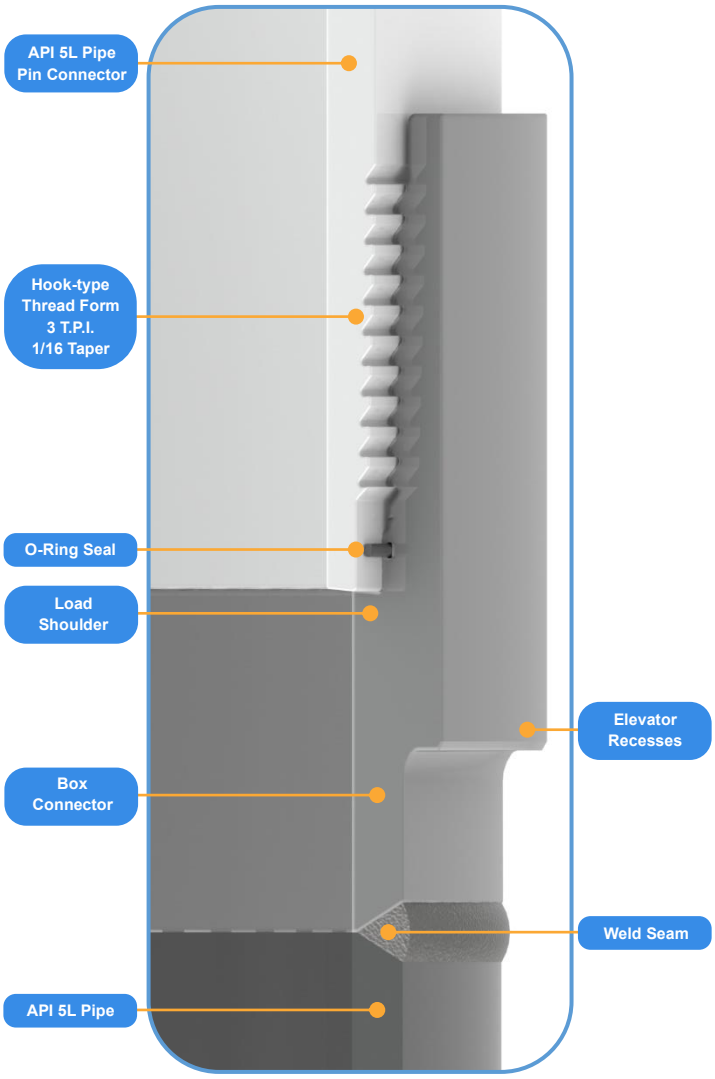
Platform Rig

Tender Assisted Rig

Drill Ship

Semi Submersible





Technical Data

Nominal sizes available	18-5/8" to 24"
Configuration	Upset OD, Flush ID
Thread form	3 T.P.I., 1/16 Taper
Thread start	3
Number of turns to make-up	3
Primary sealing mechanism	Elastomer
Load Shoulder	Single
Anti-rotation keys	Not required
Drivable	No
Material	70 and 90 ksi yield
Options: Metal Seal	Yes
Options: Alternate material	Yes

Features	Benefits
High strength design	Connector ratings exceed pipe body strength, reliable under extreme conditions.
Low ramp angle thread form	The low ramp angle of the thread form with 3 T.P.I. is necessary to fit the thread in this size envelope but provides for good alignment while stabbing and make-up. This eliminates the possibilities of crossed threads and reduces running time.
Hook-type thread form	The hook-type thread form with load flank at reverse angle allows for self-locking and increases tensile capacity.
Effective pressure sealing	O-ring is situated close to the internal shoulder of the box connector which provides good protection and reduces pressure load on box profile area.

JVDDX Connector Performance

Pipe OD (in)	Pipe WT (in)	Plain End Weight (lb/ft)	Connector Model	Material Yield (ksi)	Connector OD (in)	Connector ID (in)	Tensile Strength (kips)	Compressive Strength (psi)	Bending Strength (kips-ft)	Internal Pressure Capacity (psi)
18-5/8	0.625	120.26	JVDDX	70	19.625	17.375	2,000	2,000	726	3,320
20	0.625	129.45	JVDDX	70	21.000	18.750	2,153	2,153	843	3,100
24	0.625	156.17	JVDDX	70	25.000	22.750	2,598	2,598	1,233	2,580

All data presented herein are for quick reference. Kindly contact your OMS representative for more up-to-date information.

The connector above is applicable for the following rigs:

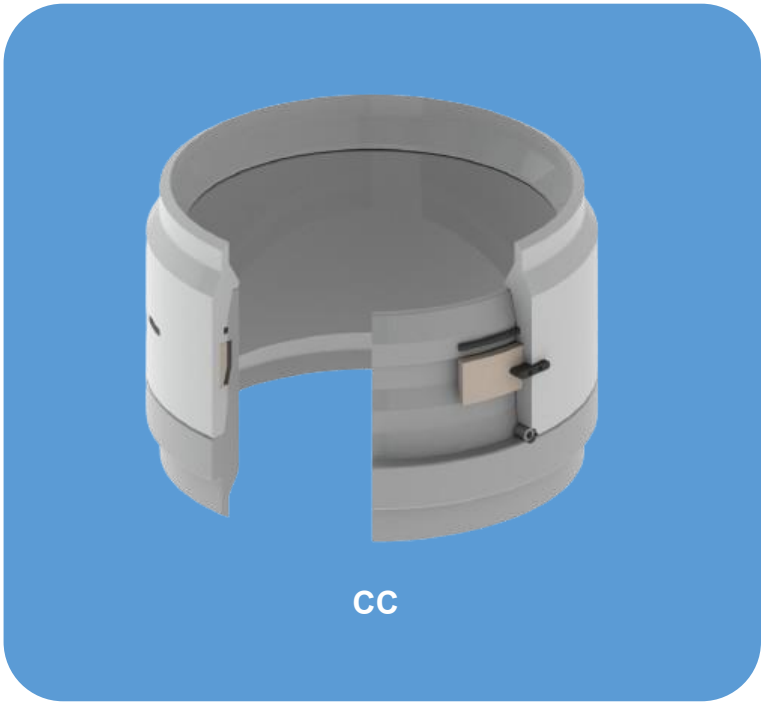
Land Rig

Swamp Barge Rig

Jack Up Rig

Platform Rig

Tender Assisted Rig



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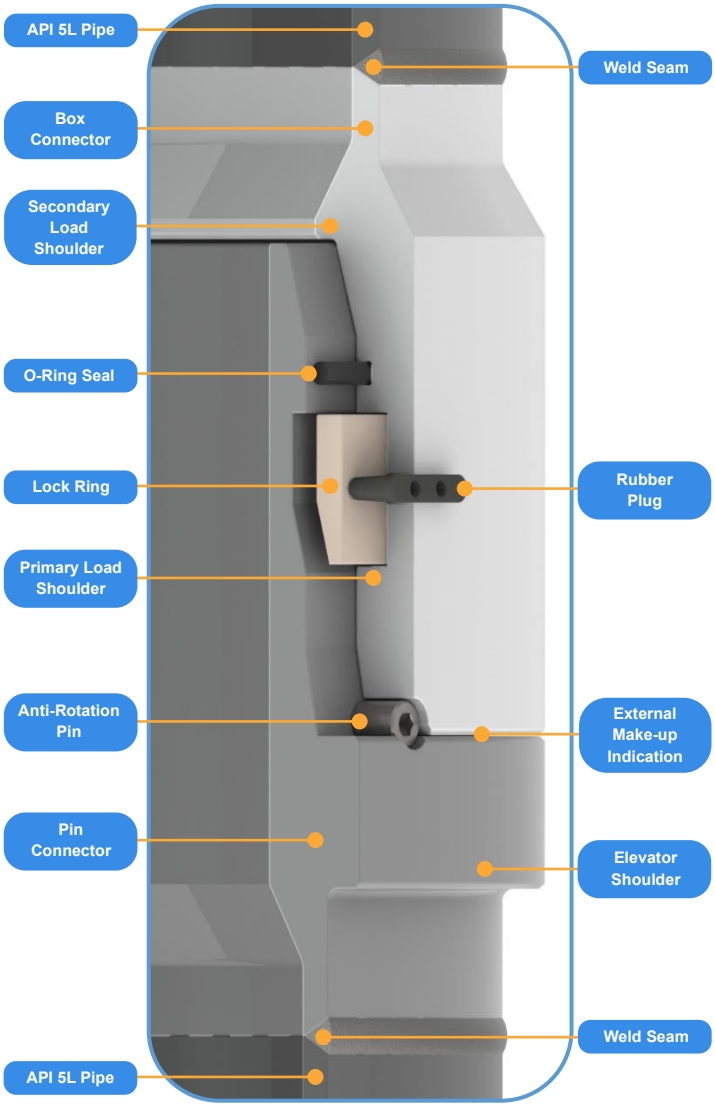


Technical Data

Nominal sizes available	20” to 30”
Configuration	Upset OD
Make-up mechanism	Weight Set
Primary sealing mechanism	Elastomer
Anti-rotation keys	Yes
Drivable	Yes
Material	60 ksi yield
Options: Flush OD or ID	Yes
Options: Metal Seal	No
Options: Alternate material	Yes

Features	Benefits
Unique designed profile	The unique designed profile ensures first and every time “stab and lock” sequence, reducing running time
Automatic Lock, Mechanical Release	The connector is designed to be automatically locked by the weight of the top joint. It is released by compressing the lock ring with 3 setting screws. No rotation or torque required.
Drivable	CC connectors are drivable and can withstand the repeated use of the heaviest driving apparatus.
Effective pressure sealing	O-ring is situated close to the internal shoulder of the box connector which will be well protected.
Anti-rotation device	The anti-rotation pin is installed to prevent rotation when removing housing handling tools, mechanical cutting, etc.
Reusable	All CC connectors are reusable.

CC Connector Performance

Pipe OD (in)	Pipe WT (in)	Plain End Weight (lb/ft)	Connector Model	Material Yield (ksi)	Connector OD (in)	Connector ID (in)	Tensile Strength (kips)	Compressive Strength (psi)	Bending Strength (kips-ft)	Internal Pressure Capacity (psi)
20	0.438	91.59	CC-FB	60	22.000	18.750	419	1,525	528	2,300
	0.500	104.23					419	1,525	528	2,310
	0.625	129.45					419	1,525	528	2,310
30	0.750	234.51	CC-FB	60	33.000	28.000	933	3,995	1,212	1,540
	0.875	272.43					933	3,995	1,596	2,050
	1.000	310.01					933	3,995	1,969	2,560
30	0.750	234.51	CC-RB	60	31.875	26.500	961	4,080	1,948	2,630
	1.000	310.01					961	4,080	1,948	2,960
	1.500	457.00					961	4,080	1,948	2,960

All data presented herein are for quick reference. Kindly contact your OMS representative for more up-to-date information.

The connector above is applicable for the following rigs:

Land Rig

Swamp Barge Rig

Jack Up Rig

Size (in)	Recommended Torque Values (For standard JVDD/JVDD2/JVDD3 and JVDD-FO/JVDD2-FO/JVDD3-FO Connectors)		
	Minimum	Optimum	Maximum
16	17,000	20,000	23,000
18-5/8	21,500	25,000	28,500
20	23,500	27,500	31,500
22	25,500	30,000	34,500
24	28,000	32,500	37,000
26	32,000	37,500	43,000
30	34,000	40,000	46,000
32	41,000	48,000	55,000
36	46,000	54,000	62,000

The torque values for other sizes and isolated JVDD/JVDD2/JVDD3 and JVDD-FO/JVDD2-FO/JVDD3-FO will be available upon request.

Size (in)	Recommended Torque Values (For standard JV-LW Connectors)		
	Minimum	Optimum	Maximum
16	13,000	15,500	18,000
18-5/8	15,000	17,500	20,000
20	17,000	19,500	22,000
22	19,000	21,500	24,000
24	20,000	23,000	26,000
26	24,000	27,000	30,000
30	26,000	29,000	32,000
32	28,000	31,000	34,000
36	30,000	33,000	36,000

The torque values for other sizes and isolated JV-LW will be available upon request.

Size (in)	Recommended Torque Values (For standard JVDDF Connectors)		
	Minimum	Optimum	Maximum
20	23,500	27,500	31,500
24	28,000	32,500	37,000
26	32,000	37,500	43,000
30	34,000	40,000	46,000
32	41,000	48,000	55,000
36	46,000	54,000	62,000

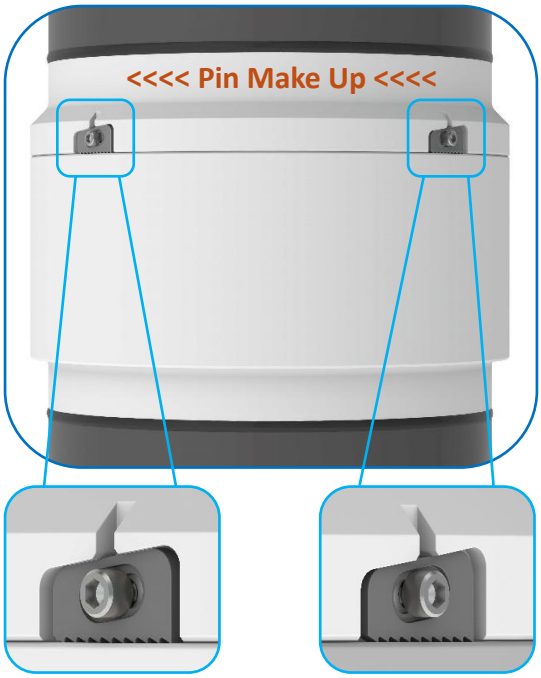
The torque values for other sizes and isolated JVDDF will be available upon request.

Size (in)	Recommended Torque Values (For standard JVDDX Connectors)		
	Minimum	Optimum	Maximum
18-5/8	15,000	17,500	20,000
20	17,000	19,500	22,000
22	19,000	21,500	24,000
24	20,000	23,000	26,000

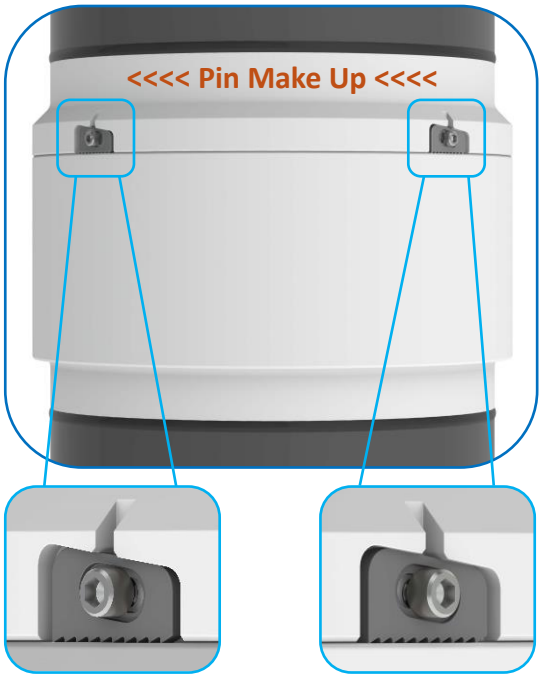
The torque values for other sizes and isolated JVDDX will be available upon request.

ANTI-ROTATION DEVICE

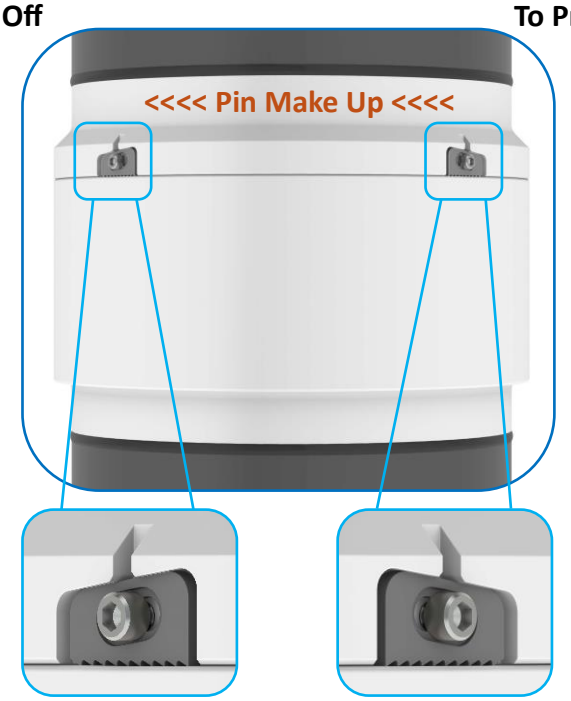
2 cam-style type anti-rotation keys are installed into the mating slots at 180° apart on the OD of the pin connector, after the connector set is power-tight made up to prevent any left-hand rotation. The keys are retained in the slots by self-locking nylon insert socket head cap screws and can be easily removed by applying sharp tools such as chisels, from the keyway behind the slots after the cap screws are removed. The hardened keys have serrated teeth that are hammered into the torque shoulder of the box after power-tight make-up. Any slight left-hand turn or unscrewing movement of the connector will immediately activate the caming action that will stop the continuation of the loosening movement. Each key installed will add in an equivalent torque of 8,750 ft-lbs, a total of 17,500 ft-lbs for a set of 2 keys.



To Prevent Back Off



To Prevent Over Torque



To Prevent Either/Any

Certificate of Authority to use the Official API Monogram
License Number: 5L-0851 ORIGINAL

American Petroleum Institute

REGISTRATION NO. Q1-3366

Certificate of Re

The American Petroleum Institute certifies that the

OMS OILFIELD SERVICES P
10 Gul Circle
Jurong
Singapore

has been assessed by the American Petroleum Institut
with the following:

API Specifica

The scope of this registration and the approved quality

Design, Manufacture, and Service of Oilfield Equipment, Large Diameter Connectors, Oilfie
Provision of Threading, Inspection, Repair, S
Treatment, Coating and Testing Services for Pet

API approves the organization's justific

No Exclusions Identified as Ap

Effecti
Expirati
Registere

Vice President of Global Industry

API Spec Q1 Registered

Lloyd's Register

Certificate of A

This is to certify that the Management System o

OMS Oilfield Ser

(Singapore Machine Shop)
No. 10 Gul Circle, Singapore 629566, Singapore

has been approved by Lloyd's Register to the following sta

ISO 9001:2015

Approval number(s): ISO 9001 – 00019142-006

This certificate forms part of the approval identified by approv

The scope of this approval is applicable to:

Manufacture and service of large diameter connectors and oil
repair, surface treatment, and factory acceptance test for petr

Luis Cunha
Area Operations Manager - SAMEA
Issued by: Lloyd's Register Quality Assurance Limited

Lloyd's Register

Current issue date: 16 May 2021
Expiry date: 16 May 2024
Certificate identity number: 10361306

Original approval(s):
ISO 14001 - 16 May 2021
ISO 45001 - 16 May 2021

Certificate of Approval

This is to certify that the Management System of:

OMS Oilfield Services Pte Ltd

No. 10 Gul Circle Jurong, 629566 Singapore

has been approved by Lloyd's Register to the following standards:

ISO 14001:2015, ISO 45001:2018

Approval number(s): ISO 14001 – 00030853, ISO 45001 – 00030854

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

ISO 14001:2015
Scope: Design, Manufacture, and Service of Oilfield Wellhead and Production Equipment, Large Diameter Connectors, Oilfield Tubular Accessories and Provision of Threading, Inspection, Repair, Specialty Welding, Surface Treatment, Coating and Testing Services for Petroleum and Related Industries.

ISO 45001:2018
Scope: Design, Manufacture, and Service of Oilfield Wellhead and Production Equipment, Large Diameter Connectors, Oilfield Tubular Accessories and Provision of Threading, Inspection, Repair, Specialty Welding, Surface Treatment, Coating and Testing Services for Petroleum and Related Industries.

Luis Cunha
Area Operations Manager - SAMEA
Issued by: Lloyd's Register Quality Assurance Limited

UKAS 001

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Issued by: Lloyd's Register Quality Assurance Limited, 2 Science Park Drive, #02-06/06 Ascent, Singapore Science Park I, Singapore 118222 for and on behalf of: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom

STRESS ENGINEERING SERVICES INC.
13800 Westfair East Drive
Houston, Texas 77041-1101
Phone: 281-955-2900
Texas Registered Engineering Firm F-195

Certificate of Testing

OMS 24" 171.40ppf x42 JV-LW Connection

Client:
Client Contact:
PO Number:
Test Sample Identification:
Test Standard:
Results:
Prepared by:
Matt Sanders
Sr. Associate
Reviewed by:
Andreas Kats
Principal

[1] Modifications to th
Series A, Material Te

This certificate and rep
relied on information
format ("Data") apply
Data summarize resul
successful or unsucces
of the tested sample(s)

STRESS ENGINEERING SERVICES INC.
13602 Westland East Blvd.
Houston, Texas 77041-1205
Phone: 281-469-2177
Texas Registered Engineering Firm F-195

Certificate of Test

Client: OMS Oilfield Services Pte Ltd
No. 10 Gul Circle
Singapore - 629566
Client Contact: Doug Harrison
PO Number: POSIN180138

Date: 6 June 2018
SES Doc
Project
Date of

Test Sample Identification:
Sample 1: Tension to Failure then Compressi
Sample 2: Internal Pressure with Compressio
Sample 3: Internal Pressure with Tension to F

Procedure:
Each sample was made-up vertically to 36,00
Sample 1: Apply tension up to 4,750,000 lbs t
Sample 2: Apply internal water pressure to 3,
Sample 3: Apply internal water pressure to 2,

Results:
Sample 1 reached 4,750,000 lbs load (tension
Sample 2 reached the maximum capacity of
with 3,787 psi internal water pressure withou
Sample 3 reached 3,972,000 lbs tension with
the connection between the first and secon
seen up to the structural failure.

Prepared by:
Matt Sanders, PE
Sr. Associate
Reviewe

List of Attachments:
Attachment 1: Make-up Log and Load History Plots
Attachment 2: Photographs
Attachment 3: Wall and Outer Diameter Measurements
Attachment 4: Calibration Documentation

This certificate and report referenced herein, if any, are intended for the exclusive use
relied on information provided by the Client and may not have independently verified su
format ("Data") apply only to the sample(s) tested and shall not be considered indicativ
Data summarize results and contain findings only, and SES offers no recommendatio
successful or unsuccessful completion of a test or qualification program. SES disclaims al
of the tested sample(s) and use of any Data.

STRESS ENGINEERING SERVICES INC.
13800 Westfair East Drive
Houston, Texas 77041-1101
Phone: 281-955-2900
Texas Registered Engineering Firm F-195

Certificate of Testing

20" JV-DD3 Connector on 131.5 ppf (0.625" WT) X-56 Pipe

Rev 0

20" JV-DD3
13679:2002

receiving API

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STRESS ENGINEERING SERVICES INC.
13800 Westfair East Drive
Houston, Texas 77041-1101
Phone: 281-955-2900
Texas Registered Engineering Firm F-195

Certificate of Testing

20" JV-DD Connector on 131.5 ppf (0.625" WT) X-56 Pipe

Date: 20 April 2018
SES Document No.: 1103172-TS-CT-01_Rev1
Project Manager: Atul Ganpatye, PE

Ltd. contracted SES to perform a series of tests on 20" JV-DD
25" WT) X-56 Pipe. The testing included modified ISO 13679:2002
d fatigue testing.

ed per ISO 13679:2002 CAL I with one sample also receiving API
s (3) Additional samples were tested in fatigue.

PI 5C5:2017 CAL I were used for the basis of testing. Resonant
nducted per procedure detailed in 1103172-30-TS-PR-01.

successfully per the requirements of the test standards and
documented in the corresponding reports listed alongside."
1103172-30-TS-RP-01
1103172-30-TS-RP-02
1103172-60-TS-RP-01

Ganpatye, PE
sociate

Long
President

TESTED Since 1972

STRESS ENGINEERING SERVICES INC.
13800 Westfair East Drive
Houston, Texas 77041-1101
Phone: 281-955-2900
Texas Registered Engineering Firm F-195

Certificate of Testing

36" JV-DD Connector on 1.5" WT X-56 Pipe

Client: OMS Oilfield Services Pte. Ltd.
No. 10 Gul Circle
Singapore – 629566
Client Contact: Doug Harrison
PO Number: POSIN170623

Date: 31 May 2018
SES Document No.: 1103172-TS-CT-03_Rev 0
Project Manager: Atul Ganpatye, PE

OMS Oilfield Services Pte. Ltd. contracted SES to perform a series of tests on 36" JV-DD Connectors with 1.5" WT X-56 Pipe. The testing included modified ISO 13679:2002 CAL I and fatigue testing.

Test Sample Identification: One (1) sample was tested per ISO 13679:2002 CAL I Modified Test Series B. Three (3) additional samples were tested in fatigue.

Procedure: ISO 13679:2002 CAL I was used for the basis of testing. Resonant Bending Fatigue Testing was conducted per the procedure as detailed in 1103172-80-TS-TP-01.

Results: All testing was completed successfully per the requirements of the test standards and procedures shown below, as documented in the corresponding reports listed alongside.

ISO 13679:2002 CAL I	1103172-501-TS-RP
Fatigue Testing	1103172-80-TS-RP-01

Prepared by:
Matt Sanders, PE
Sr. Associate
Atul Ganpatye, PE
Sr. Associate

Reviewed by:
Allen Fox
Principal
Randy Long
Vice President

TESTED Since 1972

This certificate and report referenced herein, if any, are intended for the exclusive use of OMS Oilfield Services Pte. Ltd.. In performing this test, SES has relied on information provided by the Client and may not have independently verified such information. The results and any data provided by SES in any format ("Data") apply only to the sample(s) tested and shall not be considered indicative of the qualities of apparently identical or similar samples. The Data summarize results and contain findings only, and SES offers no recommendations, opinions, or conclusions. This certificate does not indicate successful or unsuccessful completion of a test or qualification program. SES disclaims all warranties, express or implied, and liability for the performance of the tested sample(s) and use of any Data.

API 5L PIPE PROPERTIES

Pipe Performance			GRADE X42				GRADE X52				GRADE X56			
OD (in)	WT (in)	Plain-End Weight (lb/ft)	Tensile Strength (kips)	Bending Strength (kips)	Internal Pressure Capacity (psi)	External Pressure Capacity (psi)	Tensile Strength (kips)	Bending Strength (kips)	Internal Pressure Capacity (psi)	External Pressure Capacity (psi)	Tensile Strength (kips)	Bending Strength (kips)	Internal Pressure Capacity (psi)	External Pressure Capacity (psi)
16	0.438	72.86	902	285	2,020	700	1,118	353	2,500	730	1,212	382	2,710	740
	0.500	82.85	1,025	321	2,300	960	1,271	398	2,850	1,030	1,378	432	3,100	1,050
	0.625	102.72	1,271	392	2,880	1,510	1,576	486	3,570	1,700	1,709	527	3,870	1,760
18-5/8	0.438	85.16	1,054	390	1,730	470	1,306	484	2,150	490	1,416	524	2,330	490
	0.500	96.88	1,199	441	1,980	670	1,486	547	2,450	700	1,611	593	2,660	710
	0.625	120.26	1,488	540	2,470	1,120	1,845	669	3,070	1,220	2,000	726	3,320	1,250
20	0.438	91.59	1,133	452	1,610	390	1,405	560	2,000	400	1,524	608	2,170	400
	0.500	104.23	1,290	511	1,840	560	1,599	634	2,280	570	1,734	687	2,480	580
	0.625	129.45	1,602	627	2,300	960	1,986	777	2,850	1,030	2,153	843	3,100	1,050
	0.688	142.03	1,757	684	2,530	1,180	2,179	848	3,140	1,290	2,363	919	3,410	1,330
	0.750	154.34	1,910	738	2,760	1,400	2,368	915	3,430	1,560	2,567	992	3,710	1,610
	0.812	166.56	2,061	792	2,990	1,620	2,555	982	3,710	1,830	2,770	1,064	4,020	1,910
	0.875	178.89	2,213	845	3,220	1,840	2,744	1,048	4,000	2,110	2,976	1,136	4,330	2,210
	1.000	203.11	2,513	948	3,680	2,250	3,116	1,175	4,570	2,650	3,378	1,274	4,950	2,800
22	0.438	100.96	1,249	550	1,470	300	1,549	682	1,820	300	1,679	740	1,970	300
	0.500	114.92	1,422	623	1,670	430	1,763	772	2,080	440	1,912	837	2,250	440
	0.625	142.81	1,767	765	2,090	770	2,191	949	2,600	810	2,375	1,029	2,810	820
	0.688	156.74	1,939	835	2,300	960	2,405	1,035	2,860	1,030	2,607	1,123	3,100	1,050
	0.750	170.37	2,108	902	2,510	1,160	2,614	1,119	3,110	1,260	2,834	1,213	3,380	1,300
	0.812	183.92	2,276	969	2,720	1,360	2,821	1,201	3,370	1,510	3,059	1,302	3,660	1,560
	0.875	197.60	2,445	1,035	2,930	1,560	3,031	1,283	3,630	1,760	3,287	1,391	3,940	1,830
	1.000	224.49	2,777	1,163	3,350	1,950	3,444	1,441	4,150	2,260	3,734	1,563	4,500	2,370
24	0.500	125.61	1,554	745	1,530	340	1,927	924	1,900	340	2,089	1,002	2,060	350
	0.625	156.17	1,932	917	1,920	620	2,396	1,137	2,380	640	2,598	1,233	2,580	650
	0.688	171.45	2,121	1,002	2,110	780	2,630	1,242	2,620	830	2,852	1,347	2,840	840
	0.750	186.41	2,306	1,083	2,300	960	2,860	1,343	2,850	1,030	3,101	1,456	3,100	1,050
	0.812	201.28	2,490	1,164	2,490	1,140	3,088	1,443	3,090	1,240	3,348	1,565	3,350	1,270
	0.875	216.31	2,676	1,244	2,690	1,330	3,318	1,543	3,330	1,470	3,598	1,673	3,610	1,520
	1.000	245.87	3,042	1,400	3,070	1,700	3,772	1,735	3,810	1,930	4,090	1,882	4,130	2,010
26	0.500	136.30	1,686	879	1,420	270	2,091	1,090	1,760	270	2,267	1,182	1,900	280
	0.625	169.54	2,098	1,083	1,770	500	2,601	1,343	2,200	520	2,820	1,456	2,380	520
	0.688	186.16	2,303	1,183	1,950	640	2,856	1,467	2,420	670	3,097	1,591	2,620	680
	0.750	202.44	2,505	1,281	2,130	800	3,106	1,588	2,640	840	3,367	1,722	2,860	850
	0.812	218.64	2,705	1,377	2,300	960	3,354	1,707	2,850	1,030	3,637	1,851	3,090	1,050
	0.875	235.01	2,908	1,473	2,480	1,130	3,605	1,826	3,070	1,230	3,909	1,980	3,330	1,260
	1.000	267.25	3,307	1,659	2,830	1,470	4,100	2,056	3,510	1,640	4,445	2,230	3,810	1,710
28	0.500	146.99	1,819	1,024	1,320	220	2,255	1,269	1,630	220	2,445	1,376	1,770	220
	0.625	182.90	2,263	1,262	1,640	410	2,806	1,565	2,040	420	3,042	1,697	2,210	420
	0.688	200.87	2,485	1,380	1,810	530	3,082	1,711	2,240	550	3,341	1,856	2,430	550
	0.750	218.48	2,703	1,495	1,970	660	3,352	1,853	2,450	690	3,634	2,009	2,650	700
	0.812	236.00	2,920	1,607	2,140	810	3,620	1,993	2,650	850	3,926	2,161	2,870	870
	0.875	253.72	3,139	1,720	2,300	960	3,892	2,133	2,850	1,030	4,220	2,313	3,100	1,050
	1.000	288.63	3,571	1,940	2,630	1,280	4,428	2,405	3,260	1,400	4,801	2,608	3,540	1,450
30	0.500	157.68	1,951	1,179	1,230	180	2,419	1,462	1,520	180	2,623	1,585	1,650	180
	0.625	196.26	2,428	1,456	1,530	340	3,011	1,805	1,900	340	3,265	1,957	2,060	350
	0.688	215.58	2,667	1,592	1,690	440	3,307	1,974	2,090	450	3,586	2,141	2,270	460
	0.750	234.51	2,901	1,725	1,840	560	3,598	2,139	2,280	570	3,901	2,319	2,480	580
	0.812	253.36	3,135	1,856	1,990	680	3,887	2,301	2,470	710	4,214	2,495	2,680	720
	0.875	272.43	3,371	1,987	2,150	820	4,179	2,464	2,660	860	4,531	2,672	2,890	880
	1.000	310.01	3,836	2,243	2,460	1,110	4,756	2,781	3,050	1,200	5,157	3,015	3,300	1,230
	1.250	384.17	4,753	2,733	3,070	1,700	5,893	3,389	3,810	1,930	6,390	3,675	4,130	2,010
	1.500	457.00	5,654	3,198	3,680	2,250	7,011	3,965	4,570	2,650	7,602	4,300	4,950	2,800
32	0.500	168.37	2,083	1,346	1,150	150	2,583	1,669	1,430	150	2,801	1,810	1,550	150
	0.625	209.62	2,594	1,663	1,440	280	3,216	2,062	1,780	290	3,487	2,236	1,930	290
	0.688	230.29	2,849	1,820	1,580	370	3,533	2,256	1,960	380	3,831	2,446	2,130	380
	0.750	250.55	3,100	1,972	1,730	470	3,844	2,445	2,140	480	4,168	2,651	2,320	490
	0.812	270.72	3,349	2,123	1,870	580	4,153	2,632	2,320	600	4,503	2,854	2,510	610
	0.875	291.14	3,602	2,274	2,010	700	4,466	2,819	2,500	730	4,843	3,057	2,710	740
	1.000	331.39	4,100	2,568	2,300	960	5,084	3,184	2,850	1,030	5,512	3,452	3,100	1,050
	1.250	410.90	5,084	3,135	2,880	1,510	6,303	3,887	3,570	1,700	6,835	4,214	3,870	1,760
	1.500	489.07	6,051	3,674	3,450	2,050	7,503	4,555	4,280	2,380	8,135	4,939	4,640	2,510
36	0.750	282.62	3,497	2,515	1,530	340	4,336	3,119	1,900	340	4,701	3,382	2,060	350
	0.812	305.44	3,779	2,709	1,660	420	4,686	3,359	2,060	430	5,081	3,642	2,230	440
	0.875	328.55	4,065	2,904	1,790	520	5,040	3,601	2,220	530	5,465	3,904	2,410	540
	1.000	374.15	4,629	3,284	2,050	730	5,740	4,072	2,540	760	6,223	4,416	2,750	770
	1.250	464.35	5,745	4,020	2,560	1,200	7,123	4,984	3,170	1,320	7,724	5,405	3,440	1,360
	1.500	553.21	6,845	4,723	3,070	1,700	8,487	5,857	3,810	1,930	9,202	6,350	4,130	2,010
	1.750	640.73	7,927	5,396	3,580	2,160	9,829	6,690	4,440	2,530	10,658	7,254	4,810	2,670
	2.000	726.92	8,994	6,037	4,090	2,590	11,151	7,486	5,080	3,100	12,091	8,117	5,500	3,300

The data presented herein provides the strength and capabilities of pipe that are commonly requested that can be used as reference to determine the most suitable OMS connector for any application.

API-5L PIPE PROPERTIES

Pipe Performance			API 5L GRADE X60				API 5L GRADE X65				API 5L GRADE X80			
OD (in)	WT (in)	Plain-End Weight (lb/ft)	Tensile Strength (kips)	Bending Strength (kips)	Internal Pressure Capacity (psi)	External Pressure Capacity (psi)	Tensile Strength (kips)	Bending Strength (kips)	Internal Pressure Capacity (psi)	External Pressure Capacity (psi)	Tensile Strength (kips)	Bending Strength (kips)	Internal Pressure Capacity (psi)	External Pressure Capacity (psi)
16	0.438	72.86	1,289	407	2,880	750	1,398	441	3,130	760	1,724	544	3,860	780
	0.500	82.85	1,466	459	3,290	1,060	1,590	498	3,570	1,080	1,960	614	4,400	1,120
	0.625	102.72	1,817	560	4,120	1,810	1,971	608	4,460	1,870	2,430	749	5,500	2,000
18-5/8	0.438	85.16	1,507	558	2,480	490	1,634	605	2,690	500	2,015	746	3,310	500
	0.500	96.88	1,714	630	2,830	710	1,859	684	3,070	720	2,292	843	3,780	730
	0.625	120.26	2,128	772	3,540	1,270	2,308	837	3,830	1,300	2,845	1,032	4,730	1,360
20	0.438	91.59	1,620	646	2,310	400	1,758	701	2,500	400	2,167	864	3,090	410
	0.500	104.23	1,844	731	2,630	580	2,000	793	2,860	590	2,466	977	3,520	600
	0.625	129.45	2,290	896	3,290	1,060	2,484	972	3,570	1,080	3,062	1,199	4,400	1,120
	0.688	142.03	2,513	977	3,620	1,350	2,726	1,060	3,930	1,380	3,360	1,307	4,850	1,450
	0.750	154.34	2,730	1,056	3,950	1,650	2,962	1,145	4,290	1,700	3,651	1,412	5,280	1,810
	0.812	166.56	2,947	1,132	4,280	1,970	3,196	1,228	4,640	2,040	3,940	1,514	5,720	2,190
	0.875	178.89	3,165	1,208	4,610	2,290	3,433	1,311	5,000	2,380	4,232	1,616	6,160	2,610
	1.000	203.11	3,593	1,355	5,270	2,920	3,898	1,470	5,710	3,070	4,805	1,812	7,040	3,460
22	0.438	100.96	1,786	787	2,100	310	1,937	853	2,280	310	2,388	1,052	2,800	310
	0.500	114.92	2,033	890	2,390	450	2,205	966	2,600	450	2,719	1,191	3,200	450
	0.625	142.81	2,527	1,094	2,990	830	2,741	1,187	3,250	840	3,379	1,463	4,000	860
	0.688	156.74	2,773	1,194	3,290	1,070	3,008	1,295	3,570	1,060	3,708	1,597	4,410	1,120
	0.750	170.37	3,014	1,291	3,590	1,320	3,270	1,400	3,900	1,350	4,031	1,726	4,800	1,420
	0.812	183.92	3,254	1,385	3,890	1,590	3,529	1,503	4,220	1,640	4,351	1,852	5,200	1,740
	0.875	197.60	3,496	1,480	4,190	1,880	3,792	1,605	4,550	1,940	4,675	1,979	5,600	2,090
	1.000	224.49	3,972	1,662	4,790	2,460	4,308	1,803	5,190	2,570	5,311	2,223	6,400	2,840
24	0.500	125.61	2,222	1,066	2,190	350	2,410	1,156	2,380	350	2,972	1,425	2,930	350
	0.625	156.17	2,763	1,311	2,740	650	2,997	1,423	2,980	660	3,695	1,754	3,670	670
	0.688	171.45	3,033	1,432	3,020	850	3,290	1,554	3,280	860	4,056	1,915	4,040	880
	0.750	186.41	3,298	1,549	3,290	1,060	3,577	1,680	3,570	1,080	4,410	2,071	4,400	1,120
	0.812	201.28	3,561	1,664	3,560	1,300	3,863	1,805	3,870	1,330	4,762	2,225	4,770	1,390
	0.875	216.31	3,827	1,779	3,840	1,550	4,151	1,930	4,170	1,590	5,117	2,379	5,140	1,680
	1.000	245.87	4,350	2,001	4,390	2,070	4,718	2,171	4,760	2,150	5,817	2,676	5,870	2,330
26	0.500	136.30	2,411	1,257	2,030	280	2,616	1,363	2,200	280	3,224	1,681	2,710	280
	0.625	169.54	2,999	1,548	2,530	520	3,253	1,680	2,750	530	4,011	2,071	3,390	530
	0.688	186.16	3,294	1,692	2,790	680	3,573	1,835	3,020	690	4,404	2,263	3,730	700
	0.750	202.44	3,582	1,831	3,040	860	3,885	1,986	3,300	880	4,789	2,449	4,060	900
	0.812	218.64	3,868	1,968	3,290	1,060	4,196	2,135	3,570	1,080	5,172	2,632	4,400	1,120
	0.875	235.01	4,158	2,106	3,550	1,280	4,510	2,284	3,850	1,310	5,560	2,816	4,740	1,370
	1.000	267.25	4,728	2,372	4,050	1,750	5,129	2,573	4,400	1,800	6,322	3,171	5,420	1,930
28	0.500	146.99	2,600	1,464	1,880	220	2,821	1,588	2,040	220	3,477	1,957	2,520	220
	0.625	182.90	3,236	1,805	2,350	420	3,510	1,958	2,550	430	4,327	2,414	3,140	430
	0.688	200.87	3,554	1,974	2,590	560	3,855	2,141	2,810	560	4,752	2,639	3,460	570
	0.750	218.48	3,865	2,137	2,820	710	4,193	2,318	3,060	710	5,169	2,858	3,770	730
	0.812	236.00	4,175	2,298	3,060	880	4,529	2,493	3,310	890	5,583	3,073	4,090	910
	0.875	253.72	4,489	2,460	3,290	1,060	4,869	2,668	3,570	1,080	6,002	3,289	4,400	1,120
	1.000	288.63	5,106	2,774	3,760	1,480	5,539	3,009	4,080	1,520	6,828	3,709	5,030	1,600
30	0.500	157.68	2,790	1,686	1,760	180	3,026	1,829	1,900	180	3,730	2,255	2,350	180
	0.625	196.26	3,472	2,082	2,190	350	3,766	2,258	2,380	350	4,643	2,784	2,930	350
	0.688	215.58	3,814	2,277	2,420	460	4,137	2,470	2,620	460	5,100	3,045	3,230	470
	0.750	234.51	4,149	2,467	2,630	580	4,500	2,676	2,860	590	5,548	3,298	3,520	600
	0.812	253.36	4,482	2,654	2,850	730	4,862	2,879	3,090	740	5,994	3,549	3,810	750
	0.875	272.43	4,820	2,842	3,070	890	5,228	3,082	3,330	900	6,445	3,800	4,110	930
	1.000	310.01	5,485	3,207	3,510	1,250	5,949	3,479	3,810	1,280	7,334	4,288	4,700	1,330
	1.250	384.17	6,797	3,909	4,390	2,070	7,372	4,240	4,760	2,150	9,089	5,227	5,870	2,330
	1.500	457.00	8,085	4,573	5,270	2,920	8,770	4,961	5,710	3,070	10,811	6,115	7,040	3,460
32	0.500	168.37	2,979	1,925	1,650	150	3,231	2,088	1,790	150	3,983	2,574	2,200	150
	0.625	209.62	3,709	2,378	2,060	290	4,023	2,579	2,230	290	4,959	3,179	2,750	290
	0.688	230.29	4,074	2,602	2,270	380	4,419	2,822	2,460	380	5,448	3,479	3,030	390
	0.750	250.55	4,433	2,820	2,470	490	4,808	3,059	2,680	490	5,927	3,771	3,300	500
	0.812	270.72	4,789	3,035	2,670	610	5,195	3,292	2,900	610	6,405	4,059	3,570	630
	0.875	291.14	5,151	3,251	2,880	750	5,587	3,527	3,120	760	6,888	4,347	3,850	770
	1.000	331.39	5,863	3,672	3,290	1,060	6,360	3,983	3,570	1,080	7,840	4,910	4,400	1,120
	1.250	410.90	7,269	4,482	4,120	1,810	7,885	4,862	4,460	1,870	9,721	5,994	5,500	2,000
	1.500	489.07	8,652	5,253	4,940	2,600	9,385	5,698	5,360	2,730	11,570	7,024	6,600	3,030
36	0.750	282.62	5,000	3,597	2,190	350	5,424	3,902	2,380	350	6,686	4,810	2,930	350
	0.812	305.44	5,404	3,874	2,380	440	5,862	4,202	2,580	440	7,226	5,181	3,180	440
	0.875	328.55	5,813	4,153	2,560	540	6,305	4,504	2,780	540	7,773	5,553	3,420	550
	1.000	374.15	6,619	4,696	2,930	780	7,180	5,094	3,170	790	8,851	6,280	3,910	810
	1.250	464.35	8,215	5,748	3,660	1,380	8,911	6,235	3,970	1,410	10,985	7,687	4,890	1,480
	1.500	553.21	9,787	6,754	4,390	2,070	10,616	7,326	4,760	2,150	13,087	9,032	5,870	2,330
	1.750	640.73	11,336	7,715	5,120	2,780	12,296	8,369	5,560	2,920	15,158	10,317	6,850	3,270
	2.000	726.92	12,860	8,633	5,850	3,450	13,950	9,365	6,350	3,660	17,197	11,544	7,830	4,210

The data presented herein provides the strength and capabilities of pipe that are commonly requested that can be used as reference to determine the most suitable OMS connector for any application.

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