

# 20" and 22" RL-3M Casing Connector

## Technical Information

Features of the VetcoGray RL-3M metal-to-metal seal, surface casing connector:

- Primary metal-to-metal seal at pin nose based on proven RL-P design
- Self-aligning thread profile to prevent cross threading
- Pre-loaded for strength, rigidity and high fatigue characteristics
- Positive stop load shoulder
- Available in 20 & 22" diameters
- Driveable, releasable, reusable
- Fast 9/16 turn makeup
- Excellent for deepwater and harsh environments
- Negative backrake angle on thread reduces belling tendency
- Eliminates need for power tongs and casing crews
- Dual O-ring version available for full thread isolation



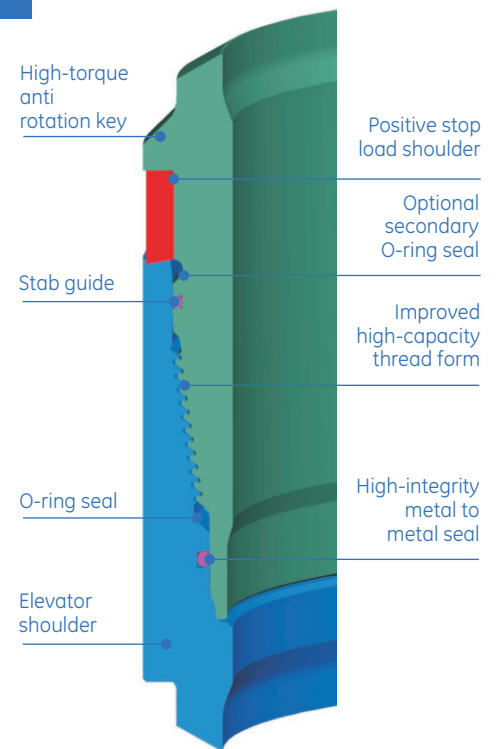
*Pin end for RL-3M casing connector*



	20" RL-4S Connector		20"x1.25" Pipe X-80	20" RL-3M Connector	
Envelope dimensions	21.500 OD 18.250 ID 8.95 OAL		22.00 OD 18.376 ID	21.500 OD 18.00 ID 14.005 OAL	
Thread starts	4		n/a	3	
Make-up turns	.36 - .61 turns		n/a	.56 - .89 turns	
Anti-rotation	4 shear tabs @8,800 ft-lbs per tab		n/a	2 keys @ 23,600 ft-lbs per key	
Yield strength (ksi)	70	95	80	75	95
Ultimate tensile capacity (kips)	2,500	3,500	4,650	3,600	4,600
Tensile yield capacity (kips)	1,800	2,440	3,916	3,000	3,850
Bending yield capacity(ft-kips)	1,149	1,560	1,504	1,380	1,750
Pressure rating	5,000	5,000	5,680	5,600	7,000

22" Connector Comparison

	22" RL-4S Connector		22"x1.25" Pipe X-80	22" RL-3M Connector	
Envelope dimensions	23.250 OD 19.880 ID 10.03 OAL		22.00 OD 19.50 ID	23.250 OD 19.250 ID 17.25 OAL	
Thread starts	4		n/a	3	
Make-up turns	.19 - .44 turns		n/a	.56 - .89 turns	
Anti-rotation	4 shear tabs @8,800 ft-lbs per tab		n/a	2 keys @ 26,000 ft-lbs per key	
Yield strength (ksi)	95		80	95	
Ultimate tensile capacity (kips)	est. 4,000		7,330	6,700	
Tensile yield capacity (kips)	2,620		6,519	6,000	
Bending yield capacity(ft-kips)	1,500		2,668	2,700	
Pressure rating	5,400		6,360	7,400	



Features of RL-3M casing connector



GE imagination at work