PRECISION

HYDRA SEMI-PREMIUM

Keeping You Connected.

A FEW WORDS ABOUT US...

Precision is dedicated to the development of new premium and semi premium connections to meet the challenges of horizontal well completions. We provide classic and innovative ways to keep your tubing and casing connected tighter, safer, and stronger. This allows you to maintain schedules, drastically reduce safety concerns and save on operational costs. Whether you are looking for API couplings, semi-premium or premium connections, we've got you covered.

The HYDRA™ FLUSH was designed to provide maximum sealing and strength in an economical design.

Designed for plain end pipe with externally and internally flush profiles. Does not require swaging.

A true double shoulder design for torque capacity. Reduced sensitivity to over-torque.

Multiple Face Sealing - OD and ID torque energized seals.

Patented leak tight thread form. Uses a square stepped thread with full root and crest engagement.

Uses taller square stepped threads and fewer threads per inch for a faster stab and makeup.

Tensile and compressive strength are 60% of pipe body.

Collapse resistance equal to API collapse pressures.

Internal Pressure rated to 80% of pipe body internal yield pressure.

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Precision Connections, LLC 11200 Mesa Dr Houston, Texas 77078 o. (713) 678-8900 Technical Support c. (832) 405-3711 Mike.Nations@precision-Ilc.com



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HYDRA CONNECTION DATA

										S. L. M. C.		1	(PS
Pipe Body						Connection		L80		P110		Q125	
Pipe Size	Wall	Weight	ID	Pipe Area	Drift	Make-up Loss	Efficiency	Yield Load	Reference Depth	Yield Load	Reference Depth	Yield Load	Reference Depth
3.5	0.254	9.20	2.992	2.590	2.867	3.938	60%	124,329	9,400	170,953	12,900	194,264	14,700
4	0.286	11.60	3.428	3.337	3.303	4.088	60%	160,177	9,400	220,243	12,900	250,276	14,700
4.5	0.250	11.60	4.000	3.338	3.875	4.038	60%	160,221	9,400	220,304	12,900	250,346	14,700
4.5	0.290	13.50	3.920	3.836	3.795	4.250	60%	184,107	9,400	253,148	12,900	287,668	14,700
4.5	0.337	15.10	3.826	4.407	3.701	4.488	60%	211,557	9,400	290,891	12,900	330,558	14,700
5	0.362	18.00	4.276	5.275	4.151	4.625	60%	253,181	9,400	348,123	12,900	395,595	14,700
5.5	0.275	15.50	4.950	4.514	4.825	4.225	60%	216,676	9,400	297,929	12,900	338,556	14,700
5.5	0.304	17.00	4.892	4.962	4.767	4.463	60%	238,196	9,400	327,519	12,900	372,181	14,700
5.5	0.361	20.00	4.778	5.828	4.653	4.738	60%	279,754	9,400	384,662	12,900	437,116	14,700
5.5	0.415	23.00	4.670	6.630	4.545	5.000	60%	318,222	9,400	437,555	12,900	497,222	14,700
6	0.400	24.00	5.200	7.037	5.075	4.230	60%	337,784	9,400	464,453	12,900	527,788	14,600
7	0.317	23.00	6.366	6.655	6.250	3.780	60%	319,464	9,400	439,263	12,900	499,162	14,600
7	0.362	26.00	6.276	7.549	6.151	3.950	60%	362,357	9,400	498,241	12,900	566,183	14,600
7	0.408	29.00	6.184	8.449	6.125	4.140	60%	405,572	9,400	557,662	12,900	633,707	14,600
7	0.453	32.00	6.094	9.317	6.000	4.320	60%	447,231	9,400	614,942	12,900	698,798	14,600
7.625	0.375	29.70	6.875	8.541	6.750	4.230	60%	409,978	9,400	563,720	12,900	640,590	14,600
7.625	0.430	33.70	6.765	9.720	6.640	4.450	60%	466,542	9,400	641,495	12,900	728,971	14,600
7.625	0.500	39.00	6.625	11.192	6.500	4.720	60%	537,212	9,400	738,667	12,900	839,394	14,600

Common sizes and grades. Data for other sizes and grades available upon request.

The performance properties given in these data tables are calculated per API 5C3. Calculations are based on nominal wall thickness. Loads do not reflect a design safety factor for walls thinner than nominal or wall defects.

The HYDRA[™] FLUSH utilizes a patented advanced square stepped thread design for a deep easy stab. The box and pin threads are asymmetric run-in / run-out threads that maximize the critical section area available for pull strength. Square threads are used because of their flexibility in a bend and ability to absorb high tensile and compressive loads. Reference Depth = Yield Load / (PE Wt./Ft)*(1.5)

Reference depth includes a 1.5 design factor. However, it does not consider bending, temperature, buoyancy or other load considerations.



Patent No.: US 9,593,786

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