

High Pressure Inline Swivels

HPI Swivels

for Moon Pools, MPD & DAT Systems

High Pressure Inline Swivels



DESIGNED TO API 16C, 17D & 6A STANDARDS



COMPLIANT WITH ABS & DNV CERTIFICATIONS



MANUFACTURED BY THE LEADER IN FLUID SWIVEL TECHNOLOGY

DSTI's comprehensive line of High Pressure Inline (HPI) swivels for drape hoses on Moon Pools, MPD Systems and DAT Systems.

The HPI product line consists of several standard designs to provide our clients with the ability to standardize their entire fleet of vessels with DSTI's moon pool hose swivels. If our standard HPI configurations don't suit your needs, contact a member of our team to discuss customized options featuring the same, field-proven sealing technology and design benefits.

FEATURES & BENEFITS

In-Stock Inventory for Short Lead Times

Exclusive, Low-Torque Design at Full Working Pressure

Robust, Marine Grade Plain Bearings Ensure Consistent Performance Under All Operational Loads

Long Service Life Between Maintenance Intervals

Internal Locking Mechanism Improves Safety By Eliminating the Possibility of the Shaft Separating From the Housings

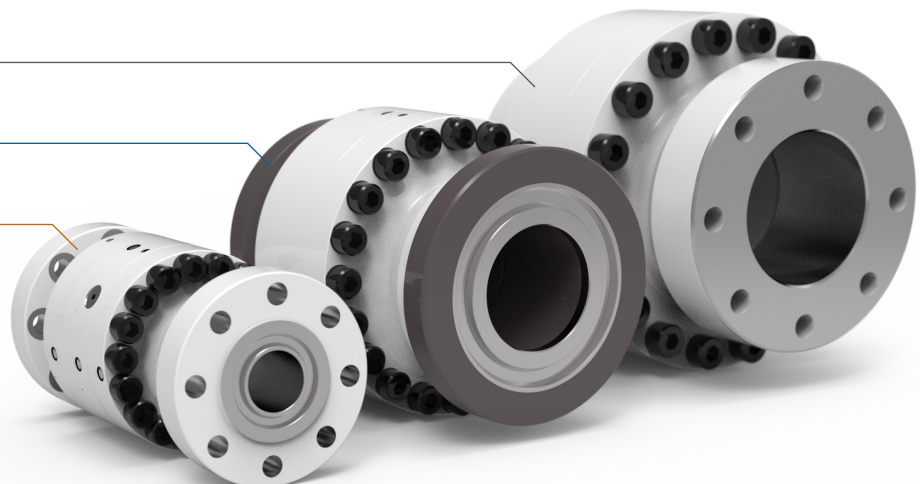
Preventative Maintenance & Rebuild Manual Provided

Redundant Sealing System Provides Maximum Uptime

DAT SWIVELS

MPD SWIVELS

MOON POOL SWIVELS






High Pressure Inline Swivels








DSTI is your exclusive partner for inline fluid swivels with bore sizes ranging from 2" to 8" or larger.

HOSE LOCATION	HOSE TYPE	BORE SIZE	MAWP	END CONN.	END CONNECTION TYPE & SIZE	API 20E BOLTING	DSTI PART NUMBER		
MOON POOLS	CHOKE / KILL	3-1/16"	15 KSI [103.4 MPa]	Flange	API 6A, TYPE 6BX, 3-1/16" 15 KSI, BX154	BSL 1	HPI-11540-FX1504		
				Hub	API 16A, TYPE 16BX, 3-1/16" 15 KSI, BX154, NO. 6 CLAMP	BSL 1	HPI-11540-HX1504		
				Hub	API 16A, TYPE 16BX, 3-1/16" 15 KSI, BX154, NO. 6 CLAMP	BSL 3	HPI-11541-HX1504		
				Flange	API 6A, TYPE 6BX, 3-1/16" 15 KSI, BX154	BSL 3	HPI-25540-FX1504		
				Hub	API 16A, TYPE 16BX, 3-1/16" 15 KSI, BX154, NO. 6 CLAMP	BSL 3	HPI-25540-HX1504		
	HYDRAULIC	2-1/16"	5 KSI [34.5 MPa]	Flange	API 17D, TYPE 17SS, 2-1/16" 5 KSI, BX152	BSL 1	HPI-09210-FX0502		
				Hub	API 16A, TYPE 16BX 2-1/16" 5 KSI, BX152, NO. 1 CLAMP	BSL 1	HPI-09210-HX0502		
		3-1/16"	10 KSI [68.9 MPa]	Flange	API 6A, TYPE 6BX 3-1/16" 10 KSI, BX154	BSL 1	HPI-11410-FX1004		
				Hub	API 16A, TYPE 16BX 2-9/16" 10 KSI, BX153, NO. 4 CLAMP	BSL 1	HPI-11411-HX1003		
		2-9/16"	10 KSI [68.9 MPa]	Hub	API 16A, TYPE 16BX 2-9/16" 10 KSI, BX153, NO.4 CLAMP	BSL 3	HPI-11412-HX1003		
				Hub	API 16A, TYPE 16BX 2-9/16" 5 KSI, BX153, NO.2 CLAMP	BSL 1	HPI-11411-HX0503		
		MUD BOOST	3-1/8"	5 KSI [34.5 MPa]	Flange	API 17D, TYPE 17SS 3-1/8" 5 KSI, BX154	BSL 1	HPI-13322-FX0505	
					Hub	API 16A, TYPE 16BX 3-1/8" 5 KSI, BX154, NO. 4 CLAMP	BSL 1	HPI-13322-HX0505	
	4-1/16"		7.5 KSI [51.7 MPa]	Flange	API 6A, TYPE 6BX 4-1/16" 10 KSI, BX155	BSL 1	HPI-13320-FX1006		
				Hub	API 16A, TYPE 16BX 4-1/16" 10 KSI, BX155, NO. 6 CLAMP	BSL 1	HPI-13320-HX1006		
				Hub	API 16A, TYPE 16BX 4-1/16" 10 KSI, BX155, NO. 6 CLAMP	BSL 3	HPI-13321-HX1006		
				Hub	API 16A, TYPE 16BX 4-1/16" 5 KSI, BX155, NO. 5 CLAMP	BSL 1	HPI-13320-HX0506		
	MPD SYSTEMS	MPD	2"	Hub	Grayloc 3GR23	BSL 1	HPI-0903-GR1123		
Hub				Grayloc 3GR23	BSL 3	HPI-0913-GR1123			
2-1/16"			5 KSI [34.5 MPa]	Hub	API 16A, TYPE 16BX 2-1/16" 10 KSI, BX152, NO. 2 CLAMP	BSL 1	HPI-0903-HX1002		
				Hub	API 16A, TYPE 16BX 2-1/16" 5 KSI, BX152, NO. 1 CLAMP	BSL 1	HPI-0903-HX0502		
6"			5 KSI [34.5 MPa]	Hub	Grayloc 6GR62	BSL 1	HPI-1503-GR1562		
				Hub	Grayloc 6GR62	BSL 3	HPI-1513-GR1562		
				Hub	API 16A, TYPE 16BX 7-1/16" 5 KSI, BX156, NO. 8 CLAMP	BSL 1	HPI-1503-HX0508		
DAT SYSTEMS			DAT	8"	5 KSI [34.5 MPa]	Flange	8" ISO 6164 GS Hydro	BSL 1	HPI-16210-S01

MOON POOLS

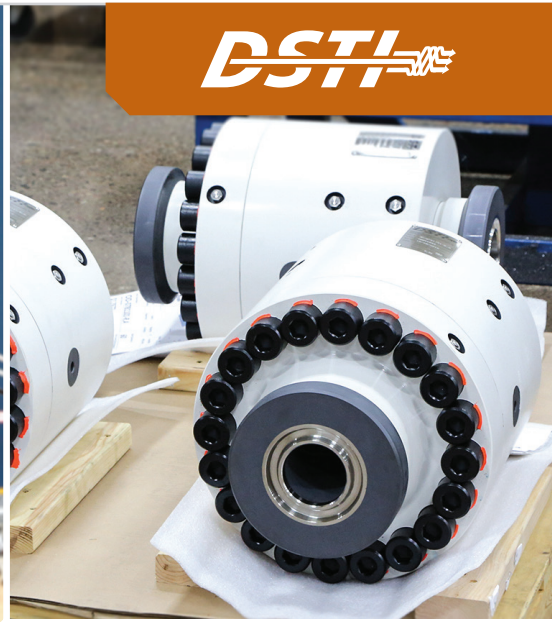
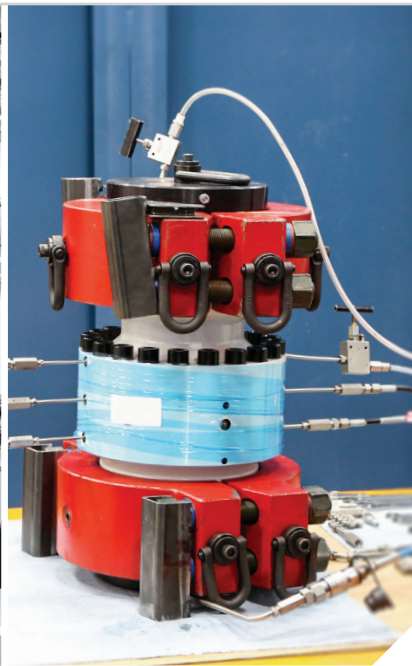
		CHOKE / KILL HOSES	HYDRAULIC HOSES	MUD BOOST HOSES
PHOTOGRAPH				
DESIGN STANDARD		API 16C/6A	API 17D/6A	API 17D/6A
MATERIAL CLASS		DD/NACE MR0175	AA	DD/NACE MR0175
SPECIFICATION LEVEL		PSL 3	PSL 2	PSL 2
TEMPERATURE CLASS		P+U	U	U
FAT		API 16C	API 17D	API 17D
NDT		PSL3	PSL2	PSL2
MAX TENSILE LOAD AT MAWP*		26,500 lbf [117.9 kN]	7,500 lbf [33.4 kN]	10,000 lbf [44.5 kN]
MAX BENDING LOAD AT MAWP*		16,500 ft-lbf [22.4 kNm]	7,500 ft-lbf [10.2 kNm]	7,500 ft-lbf [10.2 kNm]
BREAKOUT TORQUE	ZERO TENSILE LOAD / 0 PSI	350 ft-lbf [474.5 Nm]	100 ft-lbf [136 Nm]	150 ft-lbf [203 Nm]
	MAX TENSILE LOAD / MAWP	2,800 ft-lbf [3,796 Nm] @ 3,000 psi	2,200 ft-lbf [2,983 Nm]	3,000 ft-lbf [4,067 Nm]
INLAY		Sealing Areas Inlayed with 625 Inconel	17-4 PH throughout	Sealing Areas Inlayed with 625 Inconel
SEALS	ELASTOMERIC	NORSOK M710	NORSOK M710	NORSOK M710
	POLYMERIC	Certified to API 16C	Compatible with fluid	Certified to API 6A
MAIN BODY MATERIALS		Alloy Steel PSL3 75ksi Min Yield, CRA Inlay on Sealing Areas	17-4 PH, HH1150	Alloy Steel PSL3 75ksi Min Yield, CRA Inlay on Sealing Areas
BOLTING		API 20E, ASTM A193 B7/ASTM A320 L7 with Xylan Coating		
COATING		Immersion Grade Single Coat Epoxy, White or Ceramic-aluminum slurry coating with dry film lubricant, gray		
BEARINGS		Nickel Aluminum Bronze Plain Bearings		
FLOW		Bi-Directional		
ROTATION		Continuously in Either Direction		
DESIGN LIFE		10 Years (Hardware)		

*Loads listed are capacities for the swivel body. End connections may have higher or lower load capacity. It is the responsibility of the end user to ensure end connection load capacity and swivel body load capacity are not exceeded.

		MPD SYSTEMS				DAT SYSTEMS
		MPD HOSES				DAT HOSES
PHOTOGRAPH						
DESIGN STANDARD		API 17D/6A		API 17D/6A		API 17D/6A
MATERIAL CLASS		DD/NACE MR0175		DD/NACE MR0175		AA
SPECIFICATION LEVEL		PSL3		PSL3		PSL2
TEMPERATURE CLASS		P+U		P+U		U
FAT		API 17D		API 17D		API 17D
NDT		PSL3		PSL3		PSL2
MAX TENSILE LOAD AT MAWP*		9,000 lbf [40.0 kN]		31,500 lbf [140.1 kN]		11,000 lbf [48.9 kN]
MAX BENDING LOAD AT MAWP*		5,250 ft-lbf [7.1 kNm]		15,750 ft-lbf [21.4 kNm]		41,500 ft-lbf [56.3 kNm]
BREAKOUT TORQUE	ZERO TENSILE LOAD / 0 PSI	100 ft-lbf [136 Nm]		300 ft-lbf [407 Nm]		500 ft-lbf [678 Nm]
	MAX TENSILE LOAD / MAWP	800 ft-lbf [1,085 Nm]		3,600 ft-lbf [4,881 Nm]		4,500 ft-lbf [6,101 Nm]
INLAY		Sealing Areas Inlayed with 625 Inconel		Sealing Areas Inlayed with 625 Inconel		17-4 PH throughout
SEALS	ELASTOMERIC	NORSOK M710		NORSOK M710		NORSOK M710
	POLYMERIC	Certified to API 6A		Certified to API 6A		Compatible with fluid
MAIN BODY MATERIALS		Alloy Steel PSL3 75ksi Min Yield, CRA Inlay on Sealing Areas		Alloy Steel PSL3 75ksi Min Yield, CRA Inlay on Sealing Areas		17-4 PH, HH1150
BOLTING		API 20E, ASTM A193 B7/ASTM A320 L7 with Xylan Coating				
COATING		Immersion Grade Single Coat Epoxy, White or ceramic-aluminum slurry coating with dry film lubricant, gray				
BEARINGS		Nickel Aluminum Bronze Plain Bearings				
FLOW		Bi-Directional				
ROTATION		Continuously in Either Direction				
DESIGN LIFE		10 Years (Hardware)				

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About DSTI



DSTI specializes in the design and manufacturing of critical oil and gas fluid solutions worldwide.

In an industry with the highest operating costs in the world, DSTI understands the importance of maximizing equipment uptime by improving efficiencies and reducing risks for a lower total cost of ownership and greater return for our customers.

DSTI's core business focus has always remained the same; to develop fluid sealing technology and solutions for critical, highly complex applications within rotating equipment.

To do so, we've invested in state-of-the-art equipment, employ industry experts and maintain a quality management system certified to ISO 9001:2015 standards.

By controlling all aspects of the manufacturing process, from design and engineering through to testing and qualification, all under one roof, has given DSTI the reputation for delivering the highest-performing, highest-quality and most-reliable products across all industries.

LET'S TALK ABOUT YOUR PROJECT

Contact DSTI to learn more about how we can help you achieve your next project's goals.

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IN-HOUSE CAPABILITIES & SERVICES



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