



Subsea Coupling Solutions

Plate and Cartridge Mountable Stab Couplings,
ROV and Diver-Mateable Connections, Related Products
Catalog 3800-Subsea | USA | April 2016



ENGINEERING YOUR SUCCESS.

Parker's Quick Coupling Solutions for Subsea Applications

Built on a Legacy

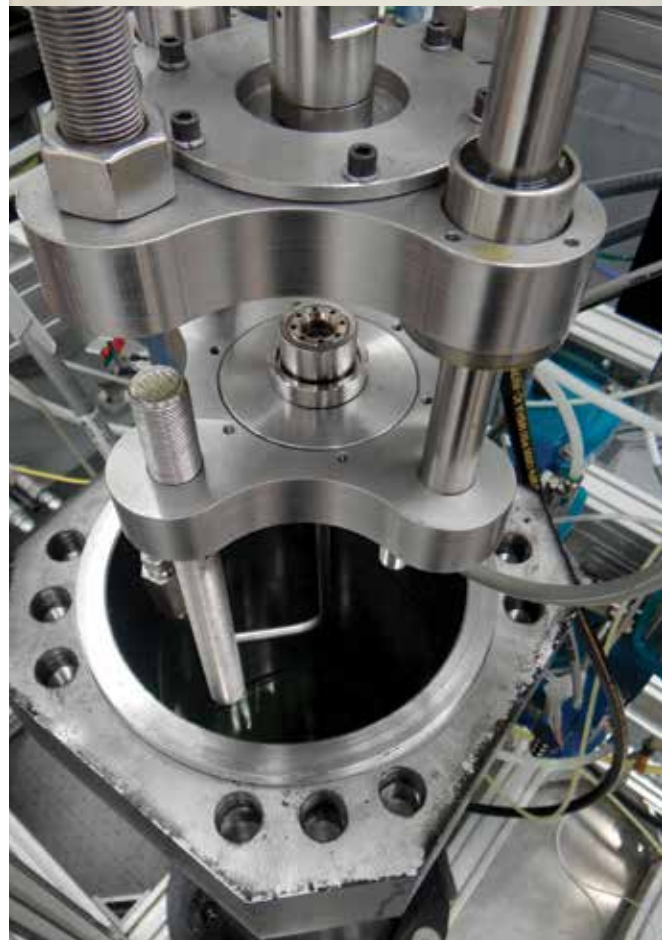
Parker's Quick Coupling Division is the world's largest manufacturer of quick couplings. In 2012, the acquisition of Snap-tite brought a legacy of quick disconnect products that had served the off shore oil and gas industry for over 40 years, into the Parker family. Many of these products are mainstays for multi-coupling panel systems connecting fluid lines on blowout preventers and subsea control modules. Snap-tite quick connectors have a familiar presence in oil and gas producing operations world-wide. Parker's manufacturing strength, quality focused culture, global service and distribution assure that these legacy products will continue to provide reliable subsea connections. Furthermore, Parker has historically been at the forefront of metal sealing technology since 1954. Going forward, we are committed to further development of subsea fluid systems to achieve the oil and gas industry HPHT 20K initiative.

Engineered for Reliability

Harsh conditions demand predictable results. In the subsea environment where the challenges are extreme, there is no leeway for systems to be down. Our redundant interface sealing and metal seal technology ensure predictable and enduring performance. Parker's subsea fluid connections are engineered for reliability and in consideration to ISO 13628 standards for subsea production systems and American Petroleum Institute guidelines.

Designed to Perform

At depths down to 4000 meters and pressures up to 25,000 psi (1723 bar), performance counts. Parker's subsea couplings are available in a variety of styles from high flow straight through and basic poppet designs, to higher functioning balanced couplings and low separation force designs. PEEK seals have a proven track record with excellent abrasion resistance and temperature stability. The ability to connect and disconnect under pressure is a standard feature of many Parker stab style plate mounted couplings and diver / ROV mateable thread-to-connect configurations.



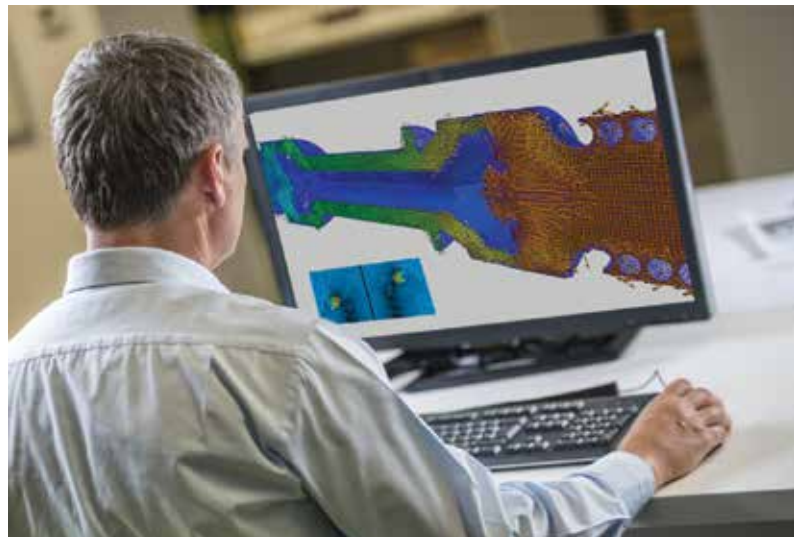
Parker's Quick Coupling Solutions for Subsea Applications

Proven under Pressure

Extensive qualification and life cycle testing in a hyperbaric chamber rigorously subjects the couplings to pressures and conditions of the real world. Additionally, hundreds of in-depth finite element analysis (FEA) calculations predict the effect of stress from internal and external loads. Exhaustive testing and thorough engineering validate our subsea couplings to perform repeatedly and reliably.

Proven over Time

The first Snap-tite subsea couplings were developed in the early 1970's. From that modest beginning, more than 40 years of partnered solutions have ensued.



A sampling of historical projects include:

BP - Chirag

Statoil - Aasta Hansteen

Total - Kaombo

JDC - MH 21

BP - Thunder Horse

BP - Mad Dog

Marathon - Bullwinkle

Total - Nuggets

AGIP - Thelma, Aquilla

Shell - Sarawak, Serai

**Marathon - Arnold, West Brae, Kinsale Head,
Braemar**

Talisman - Ross, Orion, Tweedsmuir

Elf - Elgin Franklin

ACT - Hzu Hzu

Woodside - Woollybutt

Santos - Mutineer

Mobil - Nevis, Skeane, Echo 2, 3, 4 and 5

Saga - Snorre A and B

Statoil - Snohvit, Tordis

Encana - Buzzard

Apache - Forties

**BP - Schiehallion, Bruce, South Everest,
Rhum, Beaully**



Stab Style Plate Mounted Couplings

DSL Series



DSL Series couplings are designed for low separation force while under pressure. Durable PEEK or optional metal seals provide confidence for connection and disconnection at full pressure and at depths down to 3000 meters.

Features:

- Sizes 1/4 through 1-1/2 inch
- Up to 15,000 psi (1034 bar) working pressure
- Poppet valves
- Metal or PEEK primary seal, PEEK secondary seal
- Redundant sealing
- Guide sleeve option
- Welded tube stub option

Typical Applications:

- Flying lead plates
- Subsea control modules
- Subsea injection systems
- Tubing hangers



DSC Series



DSC Series are traditional subsea couplings with PEEK seals. Redundant sealing adds a higher level of integrity to this proven design. The guide sleeve eases alignment of the coupler and nipple for a smooth connection.

Features:

- Sizes 1/4 and 1/2 inch
- Up to 15,000 psi (1034 bar) working pressure
- Poppet valves
- PEEK primary seal
- Redundant sealing
- Guide sleeve option
- Welded tube stub option

Typical Applications:

- Flying lead plates
- Subsea control modules

Stab Style Plate Mounted Couplings

DSE Series



DSE Series poppet style couplings are the most common design used in subsea applications and can be connected and disconnected at full system pressure. Typically connected and disconnected above water, their compact design is efficient and reliable.

Features:

- Sizes 1/8 through 1 inch
- Up to 10,000 psi (690 bar) working pressure
- Poppet valves
- Primary elastomer O-ring seal with back up

Typical Applications:

- Auxiliary intervention plates
- Elastomer O-ring seal is usually "make and break" topside
- Umbilical reelers

DSP Series



DSP Series poppet style couplings are the most common design used in subsea applications and can be connected and disconnected at full system pressure. PEEK seals allow connection subsea and above water. Their compact design is efficient and reliable.

Features:

- Sizes 1/8 through 1 inch
- Up to 15,000 psi (1034 bar) working pressure
- Poppet valves
- PEEK primary seal

Typical Applications:

- Auxiliary intervention plates
- PEEK seal is suitable for topside or subsea "make and break"



Stab Style Plate Mounted Couplings

DST Series



DST Series are unvalved, straight through couplings with unrestricted flow. Redundant interface sealing ensures reliable performance.

Features:

- Sizes 1/4, 1/2 and 3/4 inch
- Up to 8000 psi (552 bar) working pressure
- Unvalved straight through design
- O-ring/back up primary seal, secondary slipper seal
- Redundant sealing

Typical Applications:

- Connection plates where no valves are required
- Usually "make and break" topside

DSB Series



DSB Series balanced couplings have no hydraulic separation force while under pressure. The PEEK seals are durable for connecting at full system pressure.

Features:

- Size 3/8 inch
- Up to 10,000 psi (690 bar) working pressure
- Balanced design - no separation force from pressure
- PEEK primary seal

Typical Applications:

- Subsea control modules
- Intervention systems

Stab Style Adapter Mounted Couplings

DSA & DSU Series



DSA and DSU Series poppet couplings are used in many subsea and topside applications. The ability to connect and disconnect under full system pressure, and sealing that can withstand internal and external pressure, provides secure connections for a variety of applications.

Features:

- Size 1/4 inch
- 5000 psi (345 bar) working pressure
- Poppet valves
- Back up/O-ring/back up primary seal
- Parker Nitrile O-rings standard

Typical Applications:

- Umbilical reelers
- MUX plates

DSH Series



DSH Series couplings are used in subsea and topside RBJ-Plates. Typically found in hydraulic pilot applications they replace legacy couplings, pipe nipples, and fittings eliminating potential leak paths and reducing assembly time. The superior valve design of the DSH Series accommodates plate flex up to 0.100 in/2.54mm.

Features:

- Size 1/4 inch
- 6000 psi (414 bar) working pressure
- Poppet valves
- Redundant sealing
- Flow check resistant design
- Eliminates potential leak paths
- Reduces assembly time
- Parker Nitrile O-rings standard

Typical Applications:

- Umbilical reelers
- MUX plates



Stab Style Cartridge Mounted Couplings

DSF Series



DSF Series poppet style couplings are self-aligning allowing rigid mounting of both the male and female. High operating pressures and robust construction make them ideal for the most challenging subsea applications.

Features:

- Sizes 1/8 and 3/8 inch
- Up to 25,000 psi (1725 bar) working pressure
- Poppet valves
- PEEK primary seals
- Parker Nitrile O-rings standard

Typical Applications:

- Intervention control systems
- Subsea test trees

Diver Mateable Thread to Connect Couplings

DSM Series



DSM Series couplings have poppet valves and threaded sleeves. They are manually operated, diver mateable subsea connections with proven performance.

Features:

- Sizes 1/4 through 1 inch
- Up to 10,000 psi (690 bar) working pressure
- Poppet valves
- Metal primary and PEEK secondary seal
- Connect/disconnect under pressure

Typical Applications:

- Auxiliary intervention plates
- Diver mateable connections



Inline or Manifold Mounted Swivels

DSS Series



DSS Series swivels provide an unobstructed flow path force balanced design and low friction PTFE slipper seals minimize rotation torque. These features minimize pressure loss, can increase hose life and reduce fitting loosening.

Features:

- Sizes 1/2 and 1 inch
- 5000 psi (345 bar) working pressure
- Force balanced
- Full flow design
- Redundant sealing
- Low friction PTFE slipper seals

Benefits:

- Prevents hose twisting
- Reduces fitting loosening

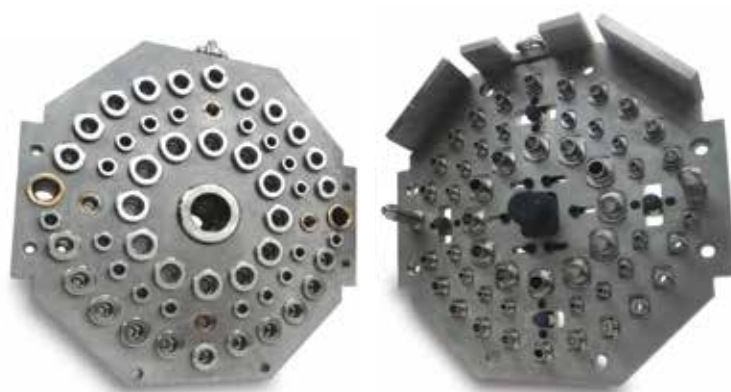


Custom Engineered Products

Parker's custom engineered couplings and accessories utilize proven designs to satisfy specific customer requirements and provide reliable connections that endure the demanding subsea environment.

Custom engineered solutions have included:

- Couplings mounted in ROV housing
- Cartridge mounted coupling with a self aligning nipple
- Coupling rated to 25,000 psi (1723 bar) and 160°C
- Poppet style couplings in a diver-mateable plate
- Multi-coupling plates connecting over 50 fluid lines



MCD Series ROV Mateable Stab Plates



Related Products - Offshore Topping Couplings

Top Drives



H & 60 Series - 316 Stainless Steel

- Corrosion resistant materials
- Quick connections allow for equipment maintenance



75 Series - 316 Stainless Steel

- Durable threaded connection for large bore hoses
- Wings allow for easy operation

ROV



60 Series - 316 Stainless Steel

- Proven performance
- ISO 7241, series B compliant



71 Series - 316 Stainless Steel

- High pressure
- Flush face, low spill

Other Topside Applications



1141 Series - 303 Stainless Steel & Brass

- Thread to connect
- 1/4 inch body size



FS Series - 316 Stainless Steel

- Push to connect operation
- Non-spill flush valves



Offer of Sale

1. Terms and Conditions. Seller's willingness to offer Products, or accept an order for Products, to or from Buyer is subject to these Terms and Conditions or any newer version of the terms and conditions found on-line at www.parker.com/saleterms/. Seller objects to any contrary or additional terms or conditions of Buyer's order or any other document issued by Buyer.

2. Price Adjustments; Payments. Prices stated on Seller's quote or other documentation offered by Seller are valid for 30 days, and do not include any sales, use, or other taxes unless specifically stated. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). Payment is subject to credit approval and is due 30 days from the date of invoice or such other term as required by Seller's Credit Department, after which Buyer shall pay interest on any unpaid invoices at the rate of 1.5% per month or the maximum allowable rate under applicable law.

3. Delivery Dates; Title and Risk; Shipment. All delivery dates are approximate and Seller shall not be responsible for any damages resulting from any delay. Regardless of the manner of shipment, title to any products and risk of loss or damage shall pass to Buyer upon placement of the products with the shipment carrier at Seller's facility. Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferral of shipment at Buyer's request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions.

4. Warranty. Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of twelve months from the date of delivery to Buyer or 2,000 hours of normal use, whichever occurs first. The prices charged for Seller's products are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **DISCLAIMER OF WARRANTY: THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED HEREUNDER. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon delivery. No claims for shortages will be allowed unless reported to the Seller within 10 days of delivery. No other claims against Seller will be allowed unless asserted in writing within 30 days after delivery. Buyer shall notify Seller of any alleged breach of warranty within 30 days after the date the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale [other than an action by Seller for an amount due on any invoice] must be commenced within 12 months from the date of the breach without regard to the date breach is discovered.

6. LIMITATION OF LIABILITY. UPON NOTIFICATION, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, EVEN IF SELLER HAS BEEN NEGLIGENT, WHETHER IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.

7. User Responsibility. The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.

8. Loss to Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, will be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer ordering the items manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

10. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest.

11. Improper use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

12. Cancellations and Changes. Orders shall not be subject to cancellation or change by Buyer for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with or without notice to Buyer.

13. Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

14. Force Majeure. Seller does not assume the risk and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter "Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

15. Waiver and Severability. Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.

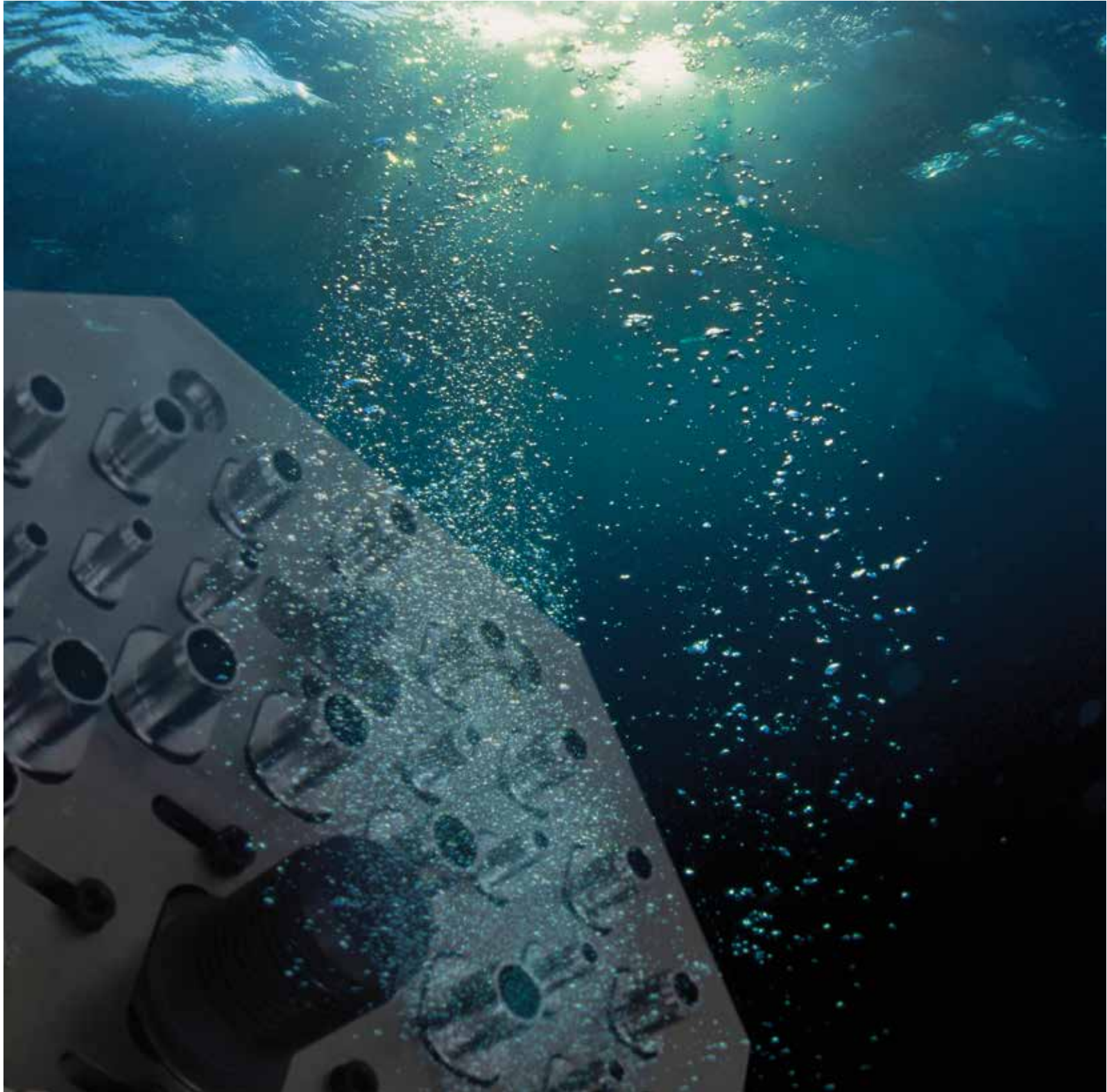
16. Termination. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days written notice of termination. Seller may immediately terminate this agreement, in writing, if Buyer: (a) commits a breach of any provision of this agreement (b) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or by a third party (d) makes an assignment for the benefit of creditors, or (e) dissolves or liquidates all or a majority of its assets.

17. Governing Law. This agreement and the sale and delivery of all Products hereunder shall be deemed to have taken place in and shall be governed and construed in accordance with the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement.

18. Indemnity for Infringement of Intellectual Property Rights. Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this Agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any Product sold hereunder. The foregoing provisions of this Section shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

19. Entire Agreement. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.

20. Compliance with Law, U. K. Bribery Act and U.S. Foreign Corrupt Practices Act. Buyer agrees to comply with all applicable laws and regulations, including both those of the United Kingdom and the United States of America, and of the country or countries of the Territory in which Buyer may operate, including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA") and the U.S. Anti-Kickback Act (the "Anti-Kickback Act"), and agrees to indemnify and hold harmless Seller from the consequences of any violation of such provisions by Buyer, its employees or agents. Buyer acknowledges that they are familiar with the provisions of the U. K. Bribery Act, the FCPA and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer shall not make any payment or give anything of value, directly or indirectly to any governmental official, any foreign political party or official thereof, any candidate for foreign political office, or any commercial entity or person, for the purpose of influencing such person to purchase products or otherwise benefit the business of Seller.



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SUBSEA COUPLING SOLUTIONS

DSA & DSU Series Data Sheet



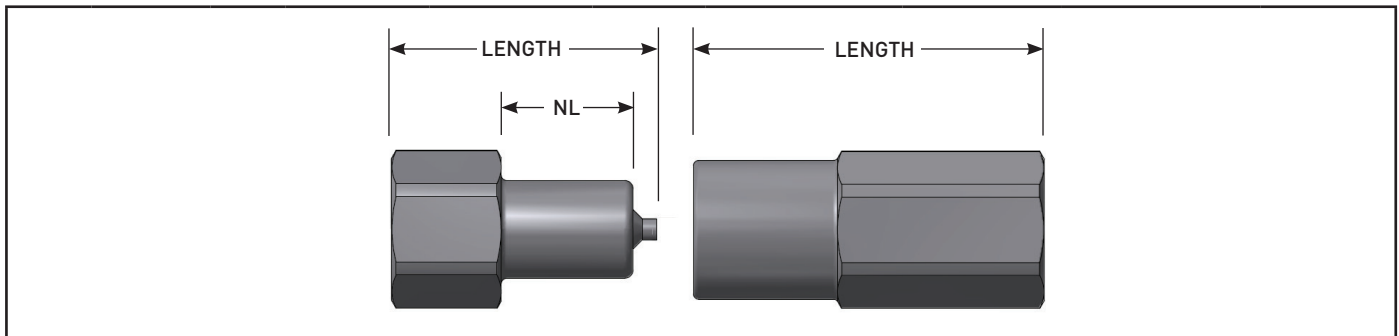
DSA and DSU Series poppet couplings are used in many subsea and topside applications. The ability to connect and disconnect under full system pressure, and sealing that can withstand internal and external pressure, provides secure connections for a variety of applications.

Features:

- Size 1/4"
- 5,000 psi (345 bar)
- Poppet valves
- Back up/O-ring/back up primary seal
- Parker Nitrile O-rings
- Body material: 316L
- Internal component materials: 316L, 17-7 & 302

Options:

- Various O-ring materials
- Vented valving
- End configurations: NPT, SAE ORB
(others available upon request)
- Body material: Nitronic 50HS
(others available upon request)



Series	NL (in/mm)	Size	Working Pressure*** (psi/bar)	Rated Working Depth** (ft/m)	Cv per Coupling Half	Separation Force (lb/1000 psi & N/100 bar)	Water Ingress Per Connect (ml)	Length* (in/mm)	Hex* (in/mm)
DSA	.455/11.6	1/4"	5000/345	3000/914	0.9	240/1550	1.3	Male: 1.50/38.1	.813/20.65
								Female: 2.00/50.8	
DSU	.625/15.9	1/4"	5000/345	3000/914	0.9	240/1550	1.3	Male: 1.46/37.1	.813/20.65
								Female: 1.83/46.5	

DSA and DSU Series couplings are not designed to connect to one another.

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.

* Hex size and length are for reference. May change for a specific end configuration.

** Mate/demate topside only.

*** Max pressure rating dependent on end configuration.



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SUBSEA COUPLING SOLUTIONS

DSB Series Data Sheet



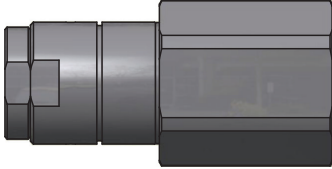

DSB Series balanced couplings have no hydraulic separation force while under pressure. The PEEK seals are durable for connecting at full system pressure. ***

Features:

- Size 3/8"
- Up to 10,000 psi (690 bar)
- Force balanced valve design
- PEEK primary seal
- Parker Nitrile O-rings standard
- Body material: Nitronic® 50HS
- Internal component materials: Nitronic® 50HS, Nitronic® 60 and 316 SST

Options:

- Various O-ring materials
- Guide sleeve
- Vented valving
- End configurations: NPT, JIC, BSP, DIN
(others available upon request)

drawing shows guide sleeve

Size	Working Pressure** (psi/bar)	Rated Working Depth (ft/m)	Cv per Coupling Set	Separation Force (lb/1000 psi & N/100 bar)	Water Ingress Per Connect (ml)	Length* (in/mm)	Min. Plate Bore Diameter* (in/mm)
3/8"	10,000/690	10,000/3050	2.4	0/0	-	Male: 3.89/98.8	1.625/41.28
						Female: 4.73/120.14	

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.
 * Minimum bore diameter and length are reference. May change for a specific plate configuration.
 ** Max pressure rating dependent on end configuration
 *** Connection or disconnection under pressure should not be done while connected to a live energy source (i.e. accumulator or running pump).



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DSC Series Data Sheet



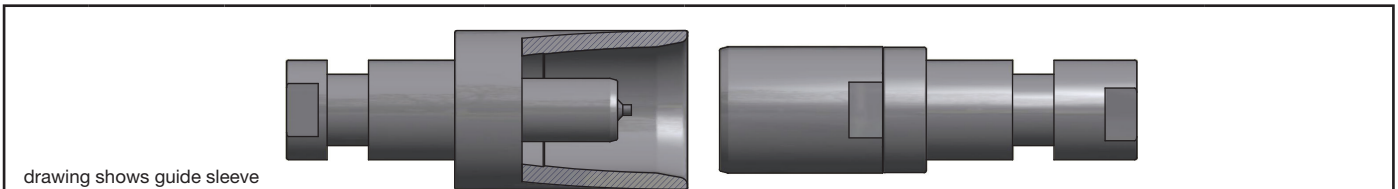
DSC Series are traditional subsea couplings with PEEK seals. Redundant sealing adds a higher level of integrity to this proven design. The guide sleeve eases alignment of the coupler and nipple for a smooth connection.

Features:

- Sizes 1/4" - 1/2"
- Up to 15,000 psi (1034 bar)
- Poppet valves
- Redundant sealing
- Peek primary seal, O-ring back up secondary seal
- Parker FKM O-rings standard
- Body material: 316 SST
- Internal component materials: Nitronic® 50HS, Nitronic® 60 and 316 SST
- Connect/disconnect under pressure up to rated pressure

Options:

- Various O-ring materials
- Guide sleeve
- Vented valving
- Higher poppet crack pressure
- Grounding attachment connection
- Dummy couplings available
- Body from Nitronic® 50HS
- Various end configurations: Autoclave, weld prep, tube stub (others available upon request)



Size	Working Pressure** (psi/bar)	Rated Working Depth (ft/m)	Cv per Coupling Half	Separation Force (lb/1000 psi & N/100 bar)	Water Ingress Per Connect (ml)	Poppet Crack Pressure (psi/bar)	Length* (in/mm)	Min. Plate Bore Diameter* (in/mm)
1/4"	15,000/1034	6562/2000	1.0	310/2000	3.4	115/7.9	Male: 6.7/170	1.25/31.75
							Female: 7.25/184	
1/2"	15,000/1034	6562/2000	2.8	695/4484	8.5	30/2.1	Male: 7.0/178	1.50/38.10
							Female: 7.5/191	

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.

* Minimum bore diameter and length are reference. May change for a specific plate configuration.

** Max pressure rating dependent on end configuration.



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DSE Series Data Sheet

DSE Series poppet style couplings are the most common design used in subsea applications and can be connected and disconnected at full system pressure. Typically connected and disconnected above water, their compact design is efficient and reliable.

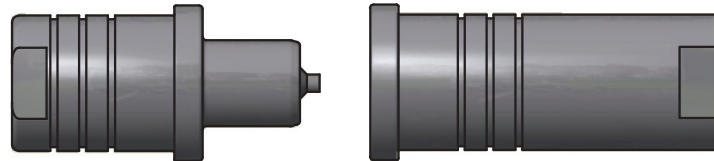


Features:

- Sizes 1/8" - 1"
- Up to 10,000 psi (690 bar)
- Poppet valves
- O-ring/back up primary seal
- Parker Nitrile O-rings standard
- Body materials: 316 SST
- Internal component materials: Nitronic® 60, 316 SST

Options:

- Various O-ring materials
- Vented valving
- End configurations: NPT, JIC (others available upon request)
- Body material: Nitronic® 50HS
- Special material available upon request



Size	Working Pressure*** (psi/bar)	Rated Working Depth** (ft/m)	Cv per Coupling Half	Separation Force (lb/1000 psi & N/100 bar)	Water Ingress Per Connect (ml)	Length* (in/mm)	Min. Plate Bore Diameter* (in/mm)
1/8"	10,000/690	3000/914	0.4	200/1291	0.4	Male: 2.28/57.9	.875/22.23
						Female: 1.80/45.7	
1/4"	5000/345	3000/914	1.0	245/1580	1.2	Male: 2.03/51.6	.938/23.83
						Female: 2.03/51.6	
3/8"	5000/345	3000/914	1.4	440/2839	2.7	Male: 2.67/67.8	1.203/30.56
						Female: 2.63/67.8	
1/2"	5000/345	3000/914	2.8	700/4517	4.2	Male: 2.93/74.4	1.438/36.53
						Female: 3.09/78.5	
3/4"	5000/345	3000/914	4.0	1350/8711	15.5	Male: 3.74/95.0	1.750/44.45
						Female: 3.97/100.8	
1"	5000/345	3000/914	9.9	2075/13389	34.0	Male: 4.30/109.2	2.375/60.33
						Female: 5.06/128.5	

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.
 * Minimum bore diameter and length are reference. May change for a specific plate configuration.
 ** Mate/demate topside only.
 *** Max pressure rating dependent on end configuration.



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SUBSEA COUPLING SOLUTIONS

DSF Series Data Sheet

DSF Series poppet style couplings are self-aligning allowing rigid mounting of both the male and female. High operating pressures and robust construction make them ideal for the most challenging subsea applications.

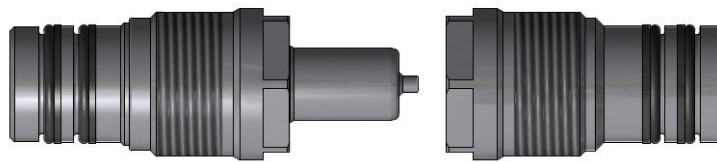


Features:

- Sizes 1/8" - 3/8"
- Up to 25,000 psi (1725 bar)
- Poppet valves
- PEEK primary seals
- Parker Nitrile O-rings standard
- Body material: 316 SST, Nitronic® 60, Inconel and Nickel Cobalt MP35N
- Internal component materials: 302, 316 SST and Inconel

Options:

- Various O-ring materials
- End configurations: Cartridge, Autoclave, Compression (others available upon request)



Size	Working Pressure*** (psi/bar)	Rated Working Depth** (ft/m)	Cv per Coupling Half	Separation Force (lb/1000 psi & N/100 bar)	Water Ingress Per Connect (ml)	Length* (in/mm)	Largest Diameter* (in/mm)
1/8"	25,000/1725	10,000/3050	0.4	192/1242	1.1	Male: 2.80/71.1	1.04/26.4
						Female: 1.93/49.0	
3/8"	5000/345	10,000/3050	1.7	438/2828	3.0	Male: 3.61/91.7	1.50/38.1
						Female: 2.55/64.8	

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.

* Largest diameter and length are for reference. May change for a specific plate configuration.

** Mate/demate rated depth of 6560ft/2000m.

*** Max pressure rating dependent on end configuration.



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SUBSEA COUPLING SOLUTIONS

DSH Series Data Sheet



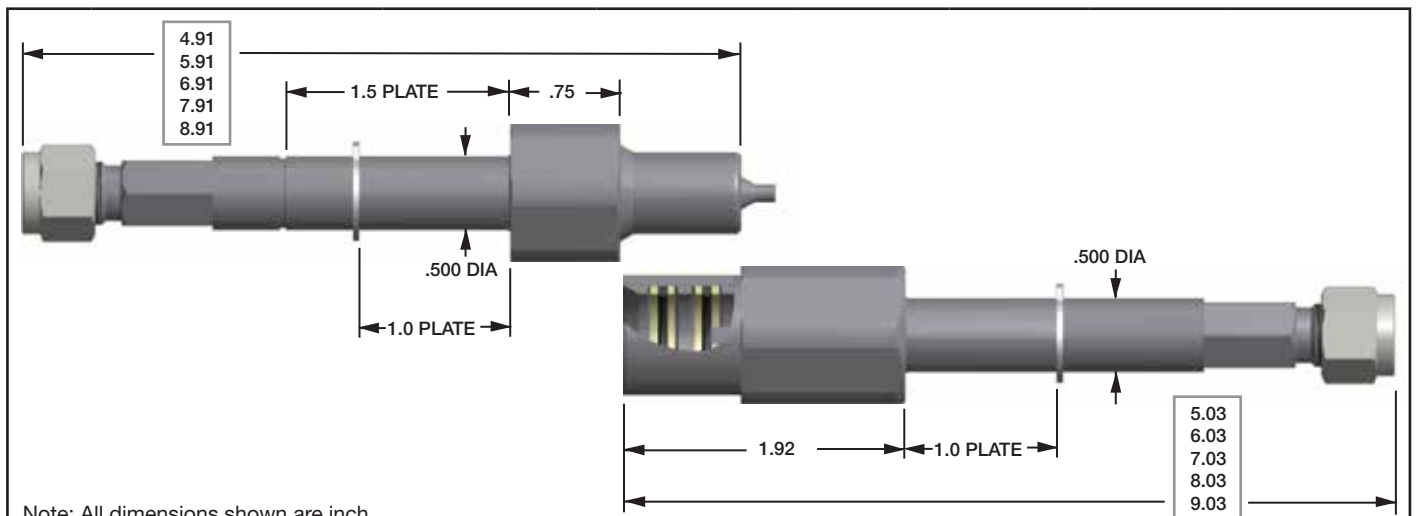
DSH Series couplings are used on subsea and topside RBQ/J - Plates. Typically found in hydraulic pilot applications they replace legacy couplings, pipe nipples, and fittings eliminating potential leak paths and reducing assembly time. The superior valve design of the DSH Series accommodates plate flex up to 0.100 in/2.54mm.

Features:

- Size 1/4"
- 6000 psi (414 bar)
- Poppet valves
- Redundant sealing
- Flow check resistant design
- Parker Nitrile O-rings standard
- Body material: 316
- Internal component materials: 316, PEEK, PTFE

Options:

- Various O-ring materials
- Valved and unvalved versions
- End configurations: JIC, A-Lok, SAE ORB (others available upon request)
- Body material: Nitronic® 50HS (others available upon request)



Size	Working Pressure** (psi/bar)	Rated Working Depth*** (ft/m)	Cv per Coupling Half	Separation Force (lb/1000 psi & N/100 bar)	Water Ingress Per Connect (ml)	Length* (in/mm)	Hex (in/mm)	Min Plate Bore Diameter* (in/mm)
1/4"	6000/414	10,000/3050	0.7 (with valves) 1.0 (no valves)	240/1550	2.25	See above	.938/23.83	.520/13.21

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.
 *Minimum bore diameter and length are reference. May change for a specific plate configuration.
 ** Max pressure rating dependant on end configuration.
 *** Mate/demate topside only.



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SUBSEA COUPLING SOLUTIONS

DSL Series Data Sheet



DSL Series couplings are designed for low separation force while under pressure. Durable PEEK or optional metal seals provide confidence for connection and disconnection at full pressure and depths down to 3000 meters.

Features:

- Sizes 1/4" - 1 1/2"
- Up to 15,000 psi (1034 bar)
- Poppet valves
- Redundant sealing
- Metal or PEEK primary seal, PEEK secondary seal
- Parker Nitrile O-rings standard
- Body material: Nitronic® 50HS
- Internal component materials: Nitronic® 50HS, 316 SST or ToughMET® AT110. Springs are Inconel® X-750 or Elgiloy®

Options:

- Various O-ring materials
- Guide sleeve
- Vented valving
- Welded assembly or 2-piece threaded version
- Various end configurations: Autoclave, Weld prep, tube stub (others available upon request)
- Rear plate mounting



Size	Working Pressure (psi/bar)	Rated Working Depth (ft/m)	Cv per Coupling Half	Separation Force (lb/1000 psi & N/100 bar)	Water Ingress per Connect (ml)	Poppet Crack Pressure (psi/bar)	Length* (in/mm)	Min. Plate Bore Diameter* (in/mm)
1/4"	15,000/1034	10,000/3050	1.5	142/915	2.9	200/13.8	Male: 3.6/91	0.875/22.23
							Female: 3.6/91	
1/2"	15,000/1034	10,000/3050	3.5	307/1981	5.7	200/13.8	Male: 5.0/127	1.250/31.75
							Female: 5.0/127	
1"	15,000/1034	10,000/3050	9.0	691/4459	12.1	200/13.8	Male: 5.8/147	1.800/45.72
							Female: 5.8/147	
1 1/2"	10,000/689	10,000/3050	19.1	1267/564	38.2	200/13.8	Male: 7.0/178	2.550/64.77
							Female: 7.0/178	

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.
 * Minimum bore diameter and length are reference. May change for a specific plate configuration.



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SUBSEA COUPLING SOLUTIONS

DSM Series Data Sheet

DSM Series couplings have poppet style valves and threaded sleeves. They are manually operated, diver mateable subsea connections with proven performance.

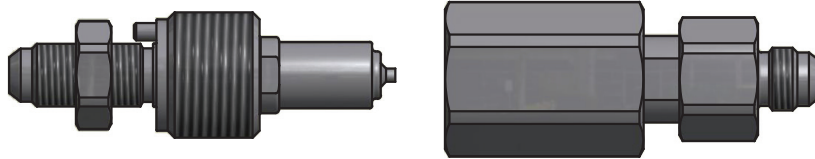


Features:

- Sizes 1/4" - 1"
- Up to 10,000 psi (690 bar)
- Poppet valves
- Redundant sealing
- Metal primary and PEEK secondary seals
- Parker Nitrile O-rings standard
- Body material: 316 SST
- Internal component materials: 316 SST or Nitronic® 60
- Connect/disconnect under pressure up to rated pressure ****

Options:

- Metal interface seal
- Various O-ring materials
- Bulkhead mounting
- End configurations: NPT, JIC (others available upon request)
- Special materials available upon request



Size	Working Pressure*** (psi/bar)	Rated Working Depth** (ft/m)	Cv per Coupling Half	Water Ingress Per Connect (ml)	Length* (in/mm)
1/4"	10,000/690	10,000/3050	0.8	1.5	Male: 3.44/87.4
					Female: 3.34/84.8
1/2"	7500/517	10,000/3050	2.8	4.0	Male: 4.04/102.6
					Female: 4.69/119.1
1"	5000/345	10,000/3050	7.0	34	Male: 5.40/137.2
					Female: 6.46/164.0

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.

* Minimum bore diameter and length are reference. May change for a specific plate configuration.

** Mate/demate rated depth of 6560ft/2000m.

*** Max pressure rating dependent on end configuration.

**** When repeatedly connecting and disconnecting under pressure, anti-seize should be applied to the connection threads



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SUBSEA COUPLING SOLUTIONS

DSP Series Data Sheet



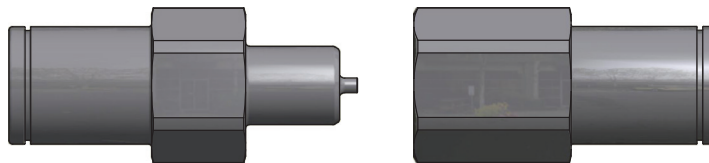
DSP Series poppet style couplings are the most common design used in subsea applications and can be connected and disconnected at full system pressure. PEEK seals allow connection subsea and above water. Their compact design is efficient and reliable.

Features:

- Sizes 1/8" - 1"
- Up to 15,000 psi (1034 bar)
- Poppet valves
- PEEK primary seals
- Parker Nitrile O-rings standard
- Body materials: Nitronic® 60 and 316 SST
- Internal component materials: 316 SST
- Connect/disconnect at rated pressure

Options:

- Various O-ring materials
- Vented valving
- Two-piece body construction
- End configurations: NPT, JIC (others available upon request)
- Alternate body and component materials



Size	Working Pressure*** (psi/bar)	Rated Working Depth** (ft/m)	Cv per Coupling Half	Separation Force (lb/1000 psi & N/100 bar)	Water Ingress Per Connect (ml)	Length* (in/mm)	Min. Plate Bore Diameter* (in/mm)
1/8"	15,000/1034	10,000/3050	0.4	200/1291	0.4	Male: 2.82/71.6	.875/22.23
						Female: 2.43/61.7	
1/4"	12,500/862	10,000/3050	1.0	310/2000	1.2	Male: 2.84/72.1	.938/23.83
						Female: 2.43/61.7	
3/8"	10,000/690	10,000/3050	1.4	440/2839	2.7	Male: 3.14/79.8	1.203/30.56
						Female: 3.06/77.7	
1/2"	10,000/690	10,000/3050	2.8	700/4517	4.2	Male: 3.22/81.8	1.438/36.53
						Female: 3.29/83.6	
1"	5000/345	10,000/3050	9.9	2075/13,400	34	Male: 4.80/122	2.375/60.33
						Female: 5.06/128.6	

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.

* Minimum bore diameter and length are reference. May change for a specific plate configuration.

** Mate/demate rated depth of 6560ft/2000m.

*** Max pressure rating dependent on end configuration.



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SUBSEA COUPLING SOLUTIONS

DSS Series Data Sheet



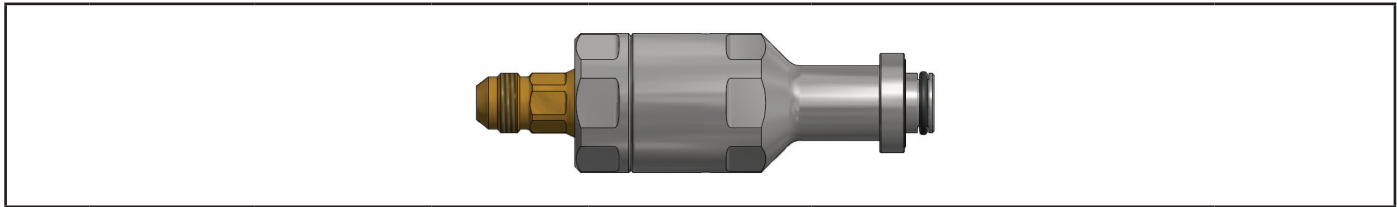
DSS Series swivels provide an unobstructed flow path. The force balanced design and low friction PTFE slipper seals minimize rotation torque. These features minimize pressure loss, can increase hose life and reduce fitting loosening.

Features:

- Sizes 1/2" - 1"
- 5000 psi (345 bar)
- Force balanced
- Full flow design
- Redundant sealing
- Low friction PTFE slipper seals
- Body materials: Nickel aluminum bronze and 316 SST

Options:

- Various O-ring materials
- End configurations: Dual flange, JIC, ORFS (others available upon request)



Size	Working Pressure** (psi/bar)	Rated Working Depth (ft/m)	Full Flow Diameter (in/mm)	Running Torque at 5000 psi (in*lbs)	Breakout Torque at 5000 psi (in*lbs)	Length* (in/mm)	Largest Diameter* (in/mm)
1/2"	5000/345	13,125/4000	.410/10.41	12	15	5.41/137.4	1.74/44.2
1"	5000/345	13,125/4000	.845/21.46	85	98	8.18/207.8	2.75/69.9

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.

* Largest diameter and length are for reference. May change for a specific end configuration.

** Max. pressure rating dependent on end configuration.



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SUBSEA COUPLING SOLUTIONS

DST Series Data Sheet



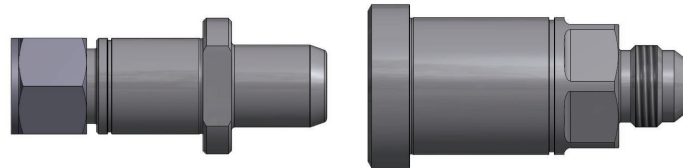
DST Series are unvalved, straight through couplings with unrestricted flow. Redundant interface sealing ensures reliable performance.

Features:

- Sizes 1/4" - 3/4"
- Up to 8000 psi (552 bar)
- Unvalved, straight through design
- Redundant sealing
- O-ring/back up primary seal, secondary slipper seal
- Body materials: Nitronic® 50HS and 316 SST

Options:

- Various O-ring materials
- End configurations: Compression, JIC (others available upon request)



Size	Working Pressure*** (psi/bar)	Rated Working Depth** (ft/m)	Cv per Coupling Half	Separation Force (lb/1000 psi & N/100 bar)	Water Ingress Per Connect (ml)	Length* (in/mm)	Min. Plate Bore Diameter* (in/mm)
1/4"	8000/552	12,000/3658	5.1	196/1265	Unvalved	Male: 2.50/63.5	.629/15.98
						Female: 2.56/65.0	.885/22.48
1/2"	8000/552	12,000/3658	16.8	442/2852	Unvalved	Male: 2.57/65.3	.879/22.33
						Female: 2.76/70.1	1.260/32.00
3/4"	8000/552	12,000/3658	31.8	785/5065	Unvalved	Male: 2.89/73.4	1.504/38.20
						Female: 3.12/79.2	1.510/38.35

Data given is representative of the coupling series. Individual couplings may vary based on specific configuration of fittings/optional features.

* Minimum bore diameter and length are reference. May change for a specific plate configuration.

** Mate/demate topside only.

*** Max. pressure rating dependent on end configuration.

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