



Subsea Coupling Solutions

Plate and Cartridge Mountable Stab Couplings,
ROV and Diver-Mateable Connections, Related Products
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ENGINEERING YOUR SUCCESS.

Parker's Quick Coupling Solutions for Subsea Applications

Built on a Legacy

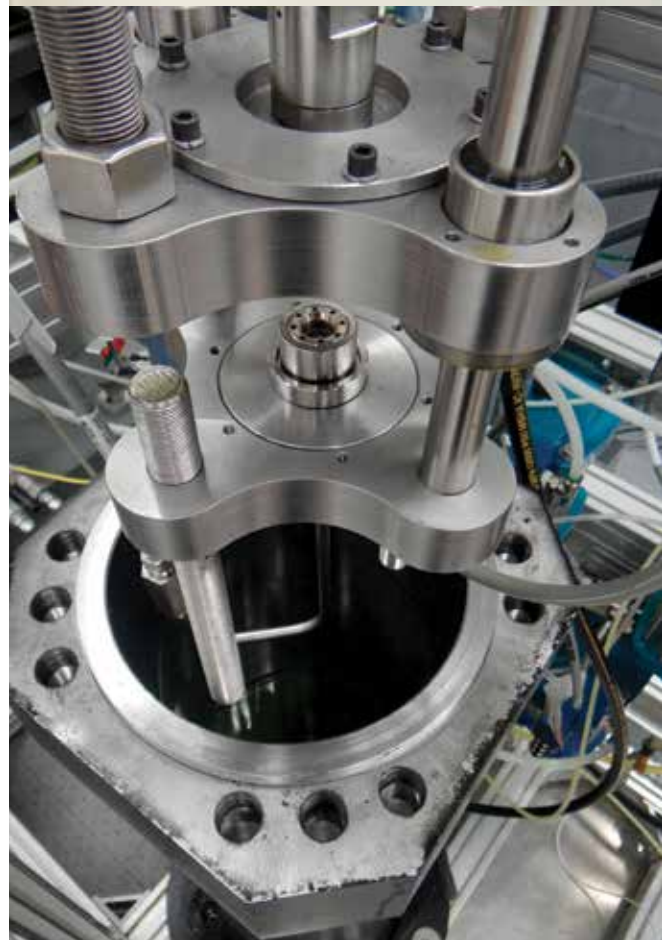
Parker's Quick Coupling Division is the world's largest manufacturer of quick couplings. In 2012, the acquisition of Snap-tite brought a legacy of quick disconnect products that had served the off shore oil and gas industry for over 40 years, into the Parker family. Many of these products are mainstays 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 3000 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.



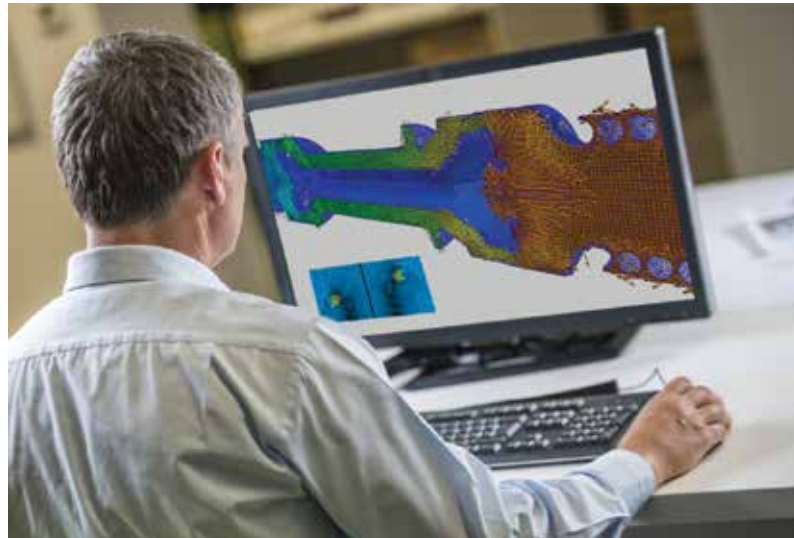
Parker's Quick Coupling Solutions for Subsea Applications

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:

Stetoiil - Aasta Hanstun

Erin Energy - OYO

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

Chevron - Blind Faith

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



Stab Style Plate Mounted Couplings

DSK Series



DSK Series couplings are designed for 20,000psi service in the most demanding applications. Industry leading flow performance, low separation force and metal primary seals provide confidence for connection and disconnection at full pressure and depths to 3000 meters.

Features:

- Size 1/4 inch
- Up to 20,000 psi (1379 bar) working pressure
- Poppet valves
- Metal primary seal, PEEK secondary seal
- Parker Nitrile O-rings standard
- Design is in accordance with API 17TR8

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 style 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 seals
- Parker Nitrile O-rings standard

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

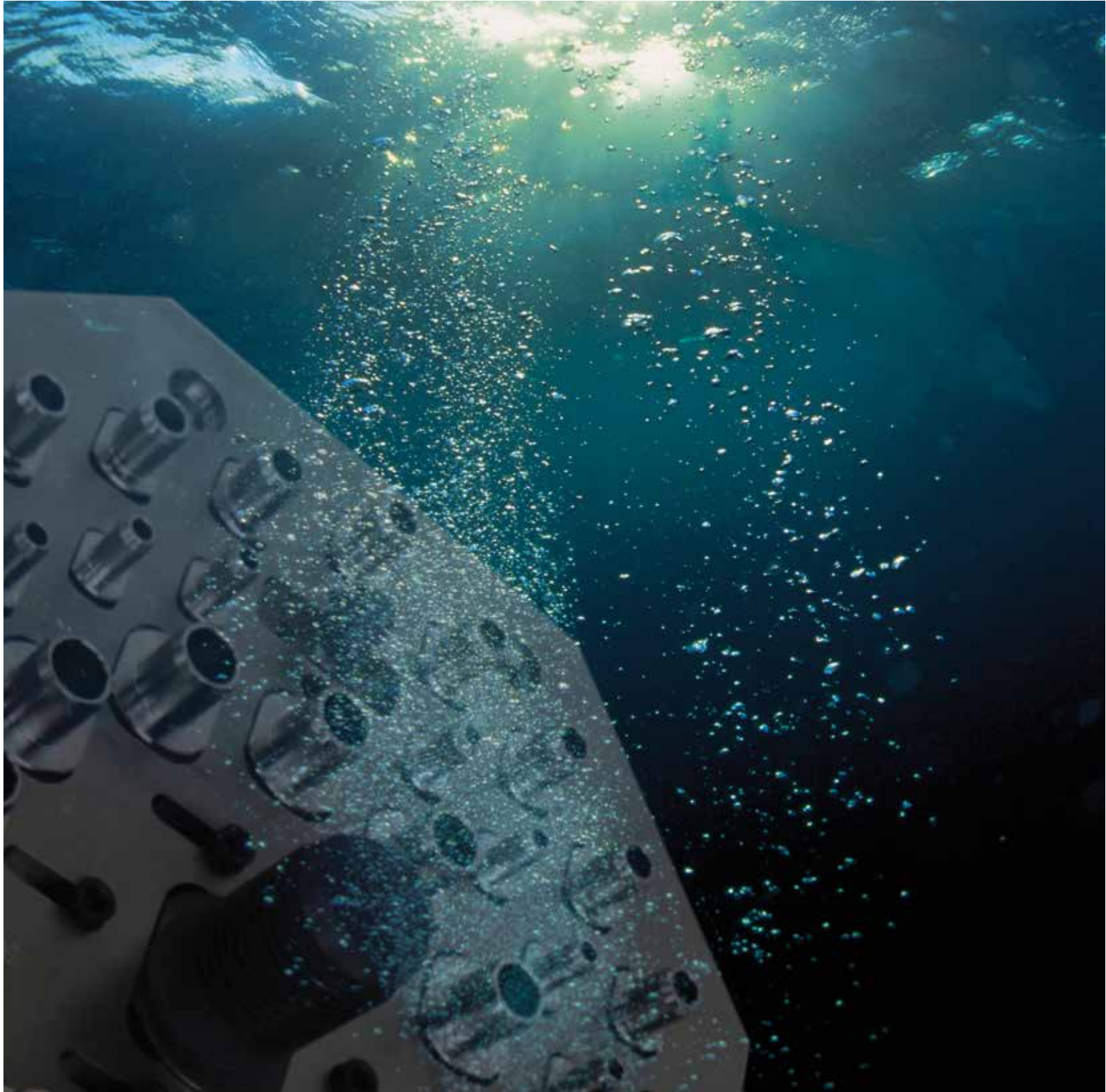


Offer of Sale

- Definitions.** As used herein, the following terms have the meanings indicated.
Buyer: means any customer receiving a Quote for Products from Seller.
Goods: means any tangible part, system or component to be supplied by the Seller.
Products: means the Goods, Services and/or Software as described in a Quote provided by the Seller.
Quote: means the offer or proposal made by Seller to Buyer for the supply of Products.
Seller: means Parker-Hannifin Corporation, including all divisions and businesses thereof.
Services: means any services to be supplied by the Seller.
Software: means any software related to the Products, whether embedded or separately downloaded.
Terms: means the terms and conditions of this Offer of Sale or any newer version of the same as published by Seller electronically at www.parker.com/saleterms.
- Terms.** All sales of Products by Seller are contingent upon, and will be governed by, these Terms and, these Terms are incorporated into any Quote provided by Seller to any Buyer. Buyer's order for any Products whether communicated to Seller verbally, in writing, by electronic data interface or other electronic commerce, shall constitute acceptance of these Terms. Seller objects to any contrary or additional terms or conditions of Buyer. Reference in Seller's order acknowledgement to Buyer's purchase order or purchase order number shall in no way constitute an acceptance of any of Buyer's terms of purchase. No modification to these Terms will be binding on Seller unless agreed to in writing and signed by an authorized representative of Seller.
- Price; Payment.** The Products set forth in Seller's Quote are offered for sale at the prices indicated in Seller's Quote. Unless otherwise specifically stated in Seller's Quote, prices are valid for thirty (30) days and do not include any sales, use, or other taxes or duties. Seller reserves the right to modify prices at any time to adjust for any raw material price fluctuations. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). All sales are contingent upon credit approval and payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified in the Quote). Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law.
- Shipment; Delivery; Title and Risk of Loss.** All delivery dates are approximate. Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the shipment carrier at Seller's facility. Unless otherwise agreed, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective indicated shipping date 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.
- Warranty.** The warranty related to the Products is as follows: (i) Goods are warranted against defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of use, whichever occurs first; (ii) Services shall be performed in accordance with generally accepted practices and using the degree of care and skill that is ordinarily exercised and customary in the field to which the Services pertain and are warranted for a period of six (6) months from the completion of the Services by Seller; and (iii) Software is only warranted to perform in accordance with applicable specifications provided by Seller to Buyer for ninety (90) days from the date of delivery or, when downloaded by a Buyer or end-user, from the date of the initial download. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **DISCLAIMER OF WARRANTY: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, NON-INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. SELLER DOES NOT WARRANT THAT THE SOFTWARE IS ERROR-FREE OR FAULT-TOLERANT, OR THAT BUYER'S USE THEREOF WILL BE SECURE OR UNINTERRUPTED. BUYER AGREES AND ACKNOWLEDGES THAT UNLESS OTHERWISE AUTHORIZED IN WRITING BY SELLER THE SOFTWARE SHALL NOT BE USED IN CONNECTION WITH HAZARDOUS OR HIGH RISK ACTIVITIES OR ENVIRONMENTS. EXCEPT AS EXPRESSLY STATED HEREIN, ALL PRODUCTS ARE PROVIDED "AS IS".**
- Claims; Commencement of Actions.** Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to the Seller within ten (10) days of delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the non-conformance is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.
- LIMITATION OF LIABILITY.** IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE THE NON-CONFORMING PRODUCT, RE-PERFORM THE SERVICES, OR REFUND THE PURCHASE PRICE PAID WITHIN A REASONABLE PERIOD OF TIME. IN NO EVENT IS SELLER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, NON-COMPLETION OF SERVICES, USE, LOSS OF USE OF, OR INABILITY TO USE THE PRODUCTS OR ANY PART THEREOF, LOSS OF DATA, IDENTITY, PRIVACY, OR CONFIDENTIALITY, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCTS.
- Loss to Buyer's Property.** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which are or become Buyer's property, will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products 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.
- Special Tooling.** Special Tooling includes but is not limited to tooling, jigs, fixtures and associated manufacturing equipment acquired or necessary to manufacture Products. A tooling charge may be imposed for any Special Tooling. 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 Special Tooling belonging to Seller that is utilized in the manufacture of the Products, even if such Special Tooling has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property in its sole discretion at any time.
- Security Interest.** To secure payment of all sums due, Seller retains a security interest in all Products delivered to Buyer and, Buyer's acceptance of these Terms is deemed to be 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.
- User Responsibility.** The Buyer through its own analysis and testing, is solely responsible for making the final selection of the Products and assuring that all performance, endurance, maintenance, safety and warning requirements of the application of the Products are met. The Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and other technical information provided with the Product. If Seller provides Product options based upon data or specifications provided by the Buyer, the Buyer is responsible for determining that such

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- Entire Agreement.** These Terms, along with the terms set forth in the main body of any Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. In the event of a conflict between any term set forth in the main body of a Quote and these Terms, the terms set forth in the main body of the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. These Terms may not be modified unless in writing and signed by an authorized representative of Seller.
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