



Stucchi<sup>®</sup>



UNLOCK THE SOLUTION<sup>™</sup>





construction | agriculture | automation | chemical | plastics  
off-shore/land based oil & gas | pulp & paper | public utilities  
pharmaceutical | marine | food processing | military | mining | forestry  
mobile off highway | power generation | utilities | industrial | automotive





# Stucchi<sup>®</sup> UNLOCK THE SOLUTION<sup>™</sup>

Stucchi Inc. is an ISO 9001/Vision 2000 certified manufacturer of hydraulic quick disconnects. Our solutions-based approach meets the demanding requirements for a variety of applications spanning multiple markets including construction, agriculture, automation, chemical, off-shore and land-based oil & gas, pulp & paper, plastics, public utilities, and many others.

Stucchi is a recognized global leader in the design and manufacturing of quick coupling products providing a variety of sizes and port configurations ranging from 1/8 inch to 2 1/2 inch sizes to accommodate a wide field of application requirements. Our pressure capabilities extend to 10,000 psi working pressure, port configurations include imperial and metric standard in stock, materials from brass to 316 stainless steel, and an assortment of seal options.

**Technical Support** is provided by our experienced people in both customer service and field sales support representatives.

**Product Quality Assurance** is documented throughout our supply chain, beginning with raw material certifications, ongoing improvements in production material, automation of production, fatigue testing, pressure testing parts prior to shipping and an ISO quality management system.

**Prompt Shipment** of customer orders is essential. Our commitment to carry large inventory levels in North America allows Stucchi the capability to service our customers' needs promptly and efficiently.

**Custom Inventory capabilities** are available in the form of custom order codes, kits, or special packaging.

Many hydraulic quick couplers look alike on the outside, but performance, ease of use and overall reliability vary greatly between brands. We invite you to try our products and compare Stucchi to current suppliers and learn why Stucchi is the choice of leading OEMs and distributors globally. We thank you for considering Stucchi as your supplier of choice, and for our existing customers we appreciate your continued support.



# Product Index

## Flat Face Style

|                                                                                     |                                                                                                                                                                                                                                         |                                                                                     |                                                                                                                                                                                                                              |
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|    | <b>SERIES "A" PREMIER</b><br><br>ISO 16028 Interchange<br>Flat Face Coupling<br><b>Size:</b> 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2<br><b>Thread:</b> NPT, SAE, JIC, ORFS                                                        |    | <b>SERIES FL</b><br><br>ISO 16028 Interchange<br>Flat Face Coupling: 316 Stainless Steel for Corrosion<br><b>Size:</b> 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/2, 2<br><b>Thread:</b> NPT, SAE, BSP                                  |
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|   | <b>SERIES FIRG</b><br><br>ISO 16028 Interchange<br>Flat Face Coupling<br><b>Size:</b> 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/2, 2<br><b>Thread:</b> NPT, SAE                                                                                   |   | <b>SERIES "A" PREMIER Z</b><br><br>Flat Face Coupling: Special Zinc Treatment for Corrosion Applications<br><b>Size:</b> 3/8, 1/2, 5/8<br><b>Thread:</b> NPT                                                                 |
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|  | <b>SERIES PUSH PULL</b><br><br>ISO 16028 Interchange<br>Flat Face Coupler: Designed with Push Pull Connection Sleeve and Clamp<br><b>Size:</b> 3/8, 1/2, 5/8, 3/4<br><b>Thread:</b> NPT                                                 |  | <b>SERIES VEP HD</b><br><br>Flat Face Threaded Coupling: Connect/Disconnect Under High Residual Pressure<br><b>Size:</b> 3/4, 1, 1 1/4, 1 1/2<br><b>Thread:</b> NPT, SAE, Flange Ports                                       |
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## Poppet Style

|                                                                                     |                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>SERIES BIR</b>                                                                                                                                                                         |
|                                                                                     | ISO A Interchange<br><b>Size:</b> 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2<br><b>Thread:</b> NPT, BSP                                                                                       |
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|    | <b>SERIES I-IP</b>                                                                                                                                                                        |
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|    | <b>SERIES IRB   IRBO   IRBX</b>                                                                                                                                                           |
|                                                                                     | ISO B Interchange<br>Material: Steel, Brass, 316 Stainless Steel<br><b>Size:</b> 1/4, 3/8, 1/2, 3/4, 1<br><b>Thread:</b> NPT, BSP                                                         |
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|  | <b>SERIES IR   IRV   IRS</b>                                                                                                                                                              |
|                                                                                     | Ag Style Interchange<br>Standard & Push Pull 2 Way Sleeve. PC<br>Version for Connecting with High Internal<br>Static Pressure<br><b>Size:</b> 1/4, 3/8, 1/2, 3/4, 1<br><b>Thread:</b> NPT |
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## Miscellaneous

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|                                                                                     | Adaptor Coupler<br><b>Size:</b> 1/2                                                                                                     |
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## Miscellaneous - cont.

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|                                                                                      | Interchange: Tema "T" Series<br><b>Size:</b> 1/4, 3/8, 1/2, 3/4, 1<br><b>Thread:</b> NPT                                           |
|                                                                                      | PAGE 82                                                                                                                            |
|    | <b>SERIES VD</b>                                                                                                                   |
|                                                                                      | European Screw Coupler<br><b>Size:</b> 1/4, 3/8, 1/2, 3/4, 1, 1 1/4                                                                |
|                                                                                      | PAGE 86                                                                                                                            |
|    | <b>SERIES VR</b>                                                                                                                   |
|                                                                                      | German Screw Coupler<br><b>Size:</b> 3/8, 1/2, 1, 1 1/4                                                                            |
|                                                                                      | PAGE 91                                                                                                                            |
|   | <b>SERIES VLS</b>                                                                                                                  |
|                                                                                      | Heavy Duty Screw Coupler<br><b>Size:</b> 1/2, 1                                                                                    |
|                                                                                      | PAGE 92                                                                                                                            |
|  | <b>SERIES VU</b>                                                                                                                   |
|                                                                                      | Check Valves<br>Cracking Point: 5 to 65 psi<br><b>Size:</b> 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2<br><b>Thread:</b> NPT, SAE, BSP |
|                                                                                      | PAGE 93                                                                                                                            |

# Product Index

## Multi-Coupling Plates, Dust Caps and Repair Kits

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|  | <b>SERIES GRE</b><br><br>Single Handle Connection of Multiple Couplings for Oil, Water, Pneumatics in Industrial Applications for Quick Tool Changes.<br><b>Size:</b> 3/8, 1/2<br><b>Option:</b> 6, 12, 18 Couplings per Plate<br><br>PAGE 107 |  | <b>SERIES DUST CAPS</b><br><br><b>Material:</b> PVC/Rubber Blend for Flat Face, and Poppet Series<br><b>Material:</b> Aluminum for IVHP, VP, VEP Series<br><b>Material:</b> Brass for Wing Style<br><br>PAGE 118 |
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## Additional Information

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## Customer Service

**Satisfaction** Total customer satisfaction is our goal. Please call with any problems or feedback.

### How to Open an Account/Same Day Approval Available

- Contact the regional sales manager for approval, fill out the credit application by printing a copy from our website: [www.stucchiusa.com](http://www.stucchiusa.com)
- Fax completed and signed credit application for processing to 847-956-9723
- We will notify you by phone, fax, or e-mail of credit approval

**How to Order from Stucchi USA Inc.** We prefer orders to be faxed or e-mailed using the Stucchi order code to eliminate any possible errors. Our technical staff is available to take your order, assist you in finding the correct part, or answer any questions.

**Delivery/Shipment of Orders** Every order received is treated as a rush order. You tell us how fast you need it! Standard orders accepted until 4:30 pm for same day shipment. UPS Red orders are accepted until 5:00 pm Central time for same day shipment.

**Price Quote/Non-Catalog Items** Stucchi is constantly adding parts to its product offering. If a non-inventory or specialty part not listed in the catalog is needed, please fill out the technical data page in the back of the catalog and fax or mail the information along with a sample if possible. Call us for price and availability on your hard-to-find items. Formal quotations for products are furnished upon request.

## Company Policies

**Credit Policy** Our credit terms are net 30 days, less 1% 10 days. Accounts outstanding over 30 days are reviewed daily. All accounts that reach 30 days past due from invoice date will be changed to a COD account until past due amounts are paid. At 45 days past due all orders and backorders will automatically be put on credit hold until full payment is received. Payment for products should be made in U.S. dollars.

**Return Policy** Contact customer service to obtain a returned material authorization (RMA) number. Our receiving department cannot accept a return without a proper number. Parts must be returned within 30 days of receipt of goods. Returned goods are subject to a 20% restocking fee. All returns are subject to inspection and may be rejected if not in resaleable condition.

**Minimum Order and Invoice** All orders for less than \$100 are subject to a minimum net charge of \$100 plus shipping costs, unless waived by seller.

**Delivery** Regardless of the billing method or the party selecting the carrier, risk of loss shall pass to buyer upon seller's delivery to a carrier. Delivery dates are approximate only and the seller shall have no liability for delays in delivery.

**Limited Warranty** Stucchi manufactured products are warranted to the original user against defects in material and workmanship under normal use and proper installation (see Stucchi engineering CD for correct handling instructions) for one year after date of purchase, or 2000 operating hours, whichever comes first. The seller's sole obligation under this warranty is limited to repairing or replacing, as hereinafter provided, at its option any product found to seller's satisfaction to be defective upon examination by it within 30 days of discovery of defect. This warranty will not apply to any product that has been subject to abuse, accident, misapplication, or negligence. Warranty will not apply to altered products, repaired by someone other than seller and normal maintenance services and replacement of service items. Seller disclaims all warranties, expressed or implied, including but not limited to any implied warranties of merchantability or fitness for a particular purpose and any other obligation or liability. Stucchi strives to maintain the highest quality products to limit field service time due to failures in performance. However, if there is a need to return product, Stucchi's return policy requires a returned material authorization (RMA) number.

**Governing Laws** This agreement shall be construed to be between merchants. The laws of the State of Illinois shall govern any questions concerning its validity and/or constriction of performance.

**Catalog Policy** The text, data and illustrations indicated in this catalog, may be changed by Stucchi at any time without notice.

# ISO 16028 Interchange Couplings Flat Face



## Flat Face

### Series: "A" Premier

**Interchange:** ISO 16028

Flat face "A" series couplings are in accordance with ISO 16028. The interchangeability of size 10 is also in accordance with NFPA T3.20.15 (HTMA).

- Seals: Nitrile and Teflon anti-extrusion
- Nipple: hardened steel reduces brinnelling
- 12 to 20 balls to increase the male bearing points & decrease the brinelling effect
- Modular structure for multiple port option
- Lock system stops unwanted disconnect
- Exceeds impulse test of ISOA-7241 test

### Overview

"A" series or Premier series offers higher pressure ratings, superior flow ratings, lower pressure drop compared to FIRG series or competitors products.

### Applications

Flat face couplers are specifically designed for applications needing no-leak performance. The mating faces are easily cleaned before connecting, making it the ideal solution for limiting contamination in a hydraulic circuit. The design allows applications involving high pressure impulses in agriculture equipment, mobile construction equipment and general industrial plants. Non-spill design avoids fluid loss in connection and disconnection.

### Options

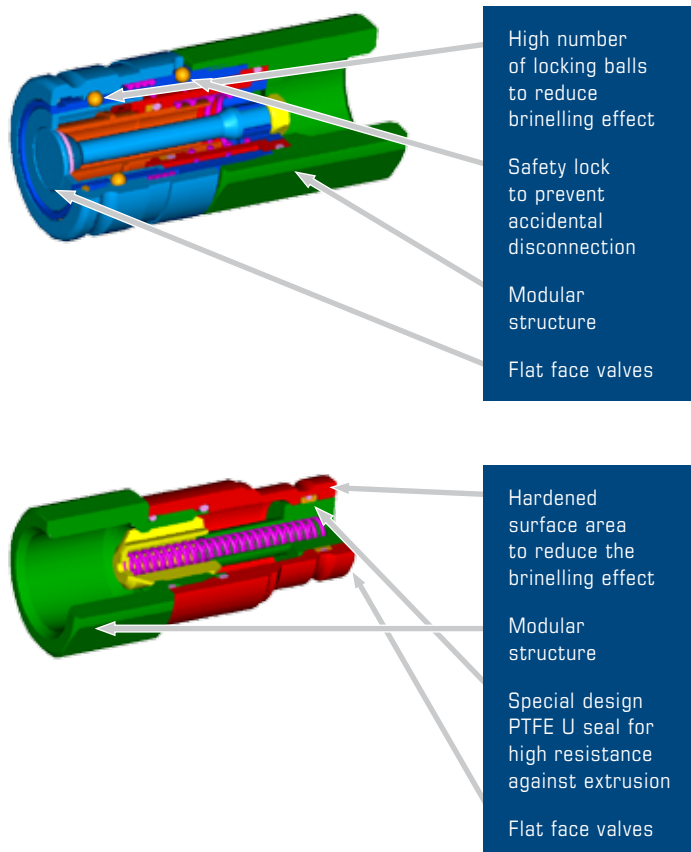
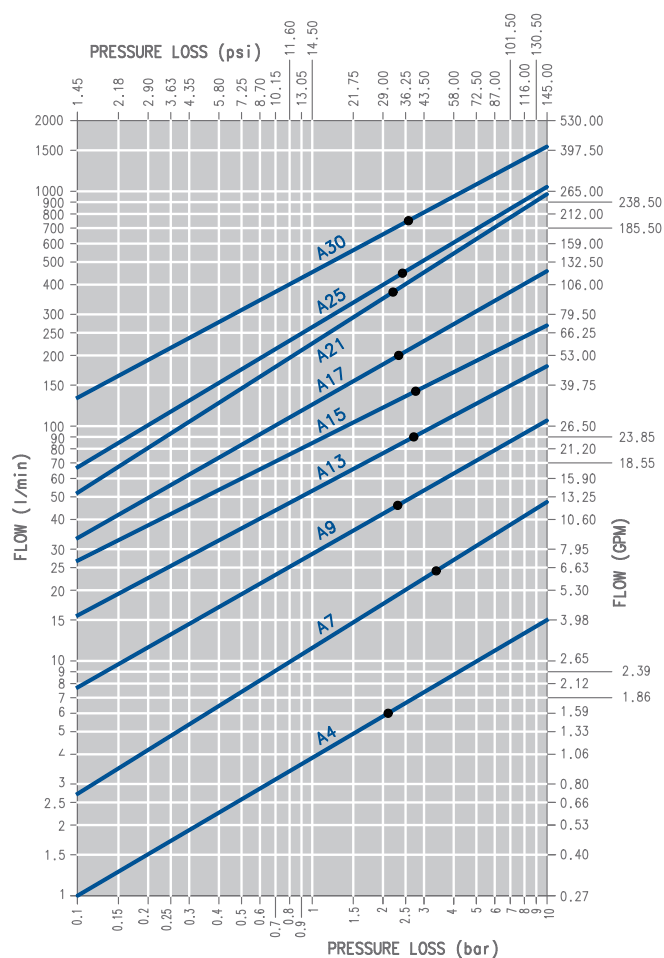
- Seals: Viton, EPDM, and Kalrez
- Threads: NPT, SAE, ORFS, JIC
- Multiple mounting options





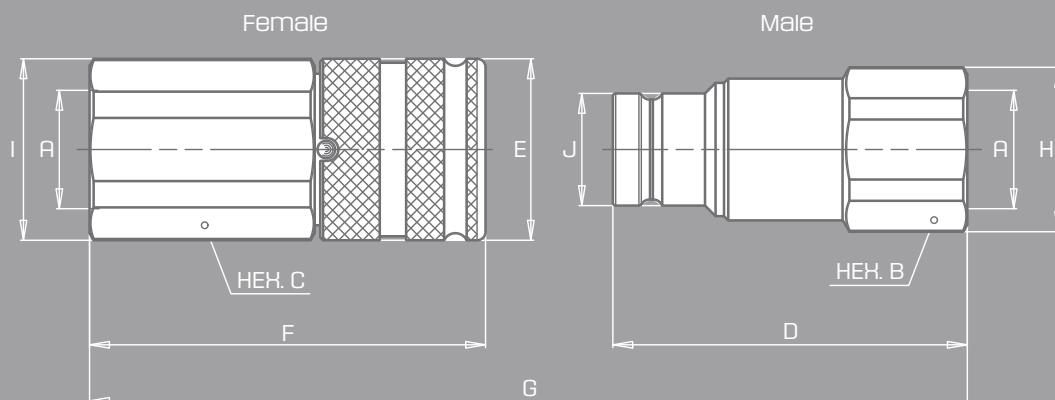
| DESCRIPTION | SIZE  | ISO SIZE | MAX. OPERATING<br>PRESSURE COUPLED |      | BURST PRESSURE |       |      |       |        |       | SPILLAGE* |
|-------------|-------|----------|------------------------------------|------|----------------|-------|------|-------|--------|-------|-----------|
|             |       |          |                                    |      | COUPLED        |       | MALE |       | FEMALE |       |           |
|             |       |          | MPa                                | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |           |
| A4          | 1/8   | -        | 42                                 | 6090 | 126            | 18270 | 126  | 18270 | 126    | 18270 | 0.001     |
| A7          | 1/4   | 6.3      | 42                                 | 6090 | 126            | 18270 | 126  | 18270 | 126    | 18270 | 0.006     |
| A9          | 3/8   | 10.0     | 35                                 | 5075 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.012     |
| A13         | 1/2   | 12.5     | 33                                 | 4785 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.020     |
| A15         | 5/8   | 16.0     | 33                                 | 4785 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.026     |
| A17         | 3/4   | 19.0     | 33                                 | 4785 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.032     |
| A21         | 1     | 25.0     | 30                                 | 4350 | 80             | 11600 | 80   | 11600 | 80     | 11600 | 0.035     |
| A25         | 1 1/4 | -        | 30                                 | 4350 | 80             | 11600 | 80   | 11600 | 80     | 11600 | 0.170     |
| A30         | 1 1/2 | -        | 27                                 | 3915 | 80             | 11600 | 80   | 11600 | 70     | 10150 | 0.050     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE.





## Flat Face: “A” Series Size Diagram



| DESCRIPTION | BODY SIZE | A     | UNIT | B    | C    | D     | E    | F     | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-------|------|------|------|-------|------|-------|-------|------|------|------|------|--------|--------|
|             |           |       |      |      |      |       |      |       |       |      |      |      |      | MALE   | FEMALE |
| A4          | 1/8       | 1/8   | mm   | 17.0 | 19.0 | 36.3  | 20.0 | 40.0  | 68.4  | 18.5 | 20.5 | 11.6 | Kg   | 0.038  | 0.073  |
|             |           |       | inch | 0.67 | 0.75 | 1.43  | 0.79 | 1.57  | 2.69  | 0.73 | 0.81 | 0.46 | lb   | 0.08   | 0.16   |
| A7          | 1/4       | 1/4   | mm   | 22.0 | 27.0 | 47.9  | 28.0 | 53.1  | 90.2  | 23.8 | 29.0 | 16.1 | Kg   | 0.088  | 0.187  |
|             |           |       | inch | 0.87 | 1.06 | 1.89  | 1.10 | 2.09  | 3.55  | 0.94 | 1.14 | 0.63 | lb   | 0.19   | 0.41   |
| A9          | 3/8       | 3/8   | mm   | 27.0 | 30.0 | 60.0  | 32.0 | 64.8  | 108.8 | 29.0 | 32.0 | 19.7 | Kg   | 0.150  | 0.273  |
|             |           |       | inch | 1.06 | 1.18 | 2.36  | 1.26 | 2.55  | 4.28  | 1.14 | 1.26 | 0.78 | lb   | 0.33   | 0.60   |
| A9          | 3/8       | 1/2   | mm   | 27.0 | 30.0 | 62.5  | 32.0 | 69.8  | 116.3 | 29.0 | 32.0 | 19.7 | Kg   | 0.138  | 0.278  |
|             |           |       | inch | 1.06 | 1.18 | 2.46  | 1.26 | 2.75  | 4.58  | 1.14 | 1.26 | 0.78 | lb   | 0.30   | 0.61   |
| A13         | 1/2       | 1/2   | mm   | 36.0 | 36.0 | 68.0  | 38.0 | 76.8  | 127.5 | 40.0 | 40.0 | 24.5 | Kg   | 0.295  | 0.452  |
|             |           |       | inch | 1.42 | 1.42 | 2.68  | 1.50 | 3.02  | 5.02  | 1.57 | 1.57 | 0.96 | lb   | 0.65   | 1.00   |
| A13         | 1/2       | 3/4   | mm   | 36.0 | 36.0 | 70.5  | 38.0 | 83.8  | 137.0 | 40.0 | 40.0 | 24.5 | Kg   | 0.273  | 0.469  |
|             |           |       | inch | 1.42 | 1.42 | 2.78  | 1.50 | 3.30  | 5.39  | 1.57 | 1.57 | 0.96 | lb   | 0.60   | 1.03   |
| A15         | 5/8       | 3/4   | mm   | 36.0 | 41.0 | 73.0  | 42.0 | 84.0  | 139.4 | 38.5 | 44.8 | 27.0 | Kg   | 0.292  | 0.631  |
|             |           |       | inch | 1.42 | 1.61 | 2.87  | 1.65 | 3.31  | 5.49  | 1.52 | 1.76 | 1.06 | lb   | 0.64   | 1.39   |
| A17         | 3/4       | 3/4   | mm   | 46.0 | 46.0 | 83.7  | 48.0 | 95.8  | 157.5 | 49.8 | 49.8 | 30.0 | Kg   | 0.535  | 0.960  |
|             |           |       | inch | 1.81 | 1.81 | 3.30  | 1.89 | 3.77  | 6.20  | 1.96 | 1.96 | 1.18 | lb   | 1.18   | 2.12   |
| A17         | 3/4       | 1     | mm   | 46.0 | 46.0 | 83.7  | 48.0 | 98.8  | 160.5 | 49.8 | 49.8 | 30.0 | Kg   | 0.473  | 0.931  |
|             |           |       | inch | 1.81 | 1.81 | 3.30  | 1.89 | 3.89  | 6.32  | 1.96 | 1.96 | 1.18 | lb   | 1.04   | 2.05   |
| A21         | 1         | 1     | mm   | 55.0 | 55.0 | 96.8  | 55.0 | 104.8 | 178.6 | 59.8 | 59.8 | 36.0 | Kg   | 0.900  | 1.430  |
|             |           |       | inch | 2.17 | 2.17 | 3.81  | 2.17 | 4.13  | 7.03  | 2.35 | 2.35 | 1.42 | lb   | 1.98   | 3.15   |
| A21         | 1         | 1 1/4 | mm   | 55.0 | 55.0 | 90.0  | 55.0 | 105.8 | 172.8 | 59.8 | 59.8 | 36.0 | Kg   | 0.700  | 1.312  |
|             |           |       | inch | 2.17 | 2.17 | 3.54  | 2.17 | 4.17  | 6.80  | 2.35 | 2.35 | 1.42 | lb   | 1.54   | 2.89   |
| A25         | 1 1/4     | 1     | mm   | 55.0 | 55.0 | 105.0 | 65.0 | 125.1 | 206.8 | 59.8 | 65.0 | 44.0 | Kg   | 1.105  | 2.100  |
|             |           |       | inch | 2.17 | 2.17 | 4.13  | 2.56 | 4.93  | 8.14  | 2.35 | 2.56 | 1.73 | lb   | 2.44   | 4.63   |
| A25         | 1 1/4     | 1 1/4 | mm   | 55.0 | 55.0 | 105.0 | 65.0 | 125.1 | 206.8 | 59.8 | 65.0 | 44.0 | Kg   | 1.105  | 2.100  |
|             |           |       | inch | 2.17 | 2.17 | 4.13  | 2.56 | 4.93  | 8.14  | 2.35 | 2.56 | 1.73 | lb   | 2.44   | 4.63   |
| A30         | 1 1/2     | 1 1/2 | mm   | 65.0 | 65.0 | 111.1 | 80.0 | 132.4 | 214.9 | 69.8 | 82.0 | 57.0 | Kg   | 1.665  | 3.140  |
|             |           |       | inch | 2.56 | 2.56 | 4.37  | 3.15 | 5.21  | 8.46  | 2.75 | 3.23 | 2.24 | lb   | 3.67   | 6.92   |



## Interchange\_NPT Thread | ISO 16028

| PART                 | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|----------------------|-----------|-----------|-------------|------------|------------------|
| A PREMIER NPT THREAD |           |           |             |            |                  |
| COUPLER              | 1/8       | 1/8       | NPT         | 801301002  | F. A4 1/8 NPT    |
| NIPPLE               | 1/8       | 1/8       | NPT         | 801301003  | M. A4 1/8 NPT    |
| COUPLER              | 1/4       | 1/4       | NPT         | 801301004  | F. A7 1/4 NPT    |
| NIPPLE               | 1/4       | 1/4       | NPT         | 800801001  | M. FIRG 14 NPT   |
| COUPLER              | 3/8       | 3/8       | NPT         | 801301006  | F. A9 3/8 NPT    |
| NIPPLE               | 3/8       | 3/8       | NPT         | 801301005  | M. A9 3/8 NPT    |
| COUPLER              | 3/8       | 1/2       | NPT         | 801301008  | F. A9 1/2 NPT    |
| NIPPLE               | 3/8       | 1/2       | NPT         | 801301007  | M. A9 1/2 NPT    |
| COUPLER              | 1/2       | 1/2       | NPT         | 801301010  | F. A13 1/2 NPT   |
| NIPPLE               | 1/2       | 1/2       | NPT         | 801301009  | M. A13 1/2 NPT   |
| COUPLER              | 1/2       | 3/4       | NPT         | 801301012  | F. A13 3/4 NPT   |
| NIPPLE               | 1/2       | 3/4       | NPT         | 801301011  | M. A13 3/4 NPT   |
| COUPLER              | 5/8       | 3/4       | NPT         | 801301014  | F. A15 3/4 NPT   |
| NIPPLE               | 5/8       | 3/4       | NPT         | 801301013  | M. A15 3/4 NPT   |
| COUPLER              | 5/8       | 1         | NPT         | 801301020  | F. A15 1 NPT     |
| NIPPLE               | 5/8       | 1         | NPT         | 801301019  | M. A15 1 NPT     |
| COUPLER              | 3/4       | 3/4       | NPT         | 801301030  | F. A17 3/4 NPT   |
| NIPPLE               | 3/4       | 3/4       | NPT         | 801301031  | M. A17 3/4 NPT   |
| COUPLER              | 3/4       | 1         | NPT         | 801301000  | F. A17 1 NPT     |
| NIPPLE               | 3/4       | 1         | NPT         | 801301001  | M. A17 1 NPT     |
| COUPLER              | 1         | 1         | NPT         | 801301028  | F. A21 1 NPT     |
| NIPPLE               | 1         | 1         | NPT         | 801301029  | M. A21 1 NPT     |
| COUPLER              | 1         | 1 1/4     | NPT         | 801301016  | F. A21 114 NPT   |
| NIPPLE               | 1         | 1 1/4     | NPT         | 801301015  | M. A21 114 NPT   |
| COUPLER              | 1 1/4     | 1 1/4     | NPT         | 801301034  | F. A25 114 NPT   |
| NIPPLE               | 1 1/4     | 1 1/4     | NPT         | 801301035  | M. A25 114 NPT   |
| COUPLER              | 1 1/2     | 1 1/2     | NPT         | 801301018  | F. A30 112 NPT   |
| NIPPLE               | 1 1/2     | 1 1/2     | NPT         | 801301017  | M. A30 112 NPT   |



COUPLER



NIPPLE

## Skid Steer Applications\_Custom Ports | Male Threads | ISO 16028

| PART                          | BODY SIZE | PORT SIZE | THREAD TYPE   | ORDER CODE | PART DESCRIPTION      |
|-------------------------------|-----------|-----------|---------------|------------|-----------------------|
| A PREMIER JIC AND ORFS THREAD |           |           |               |            |                       |
| COUPLER                       | 3/8       | 1/2       | JIC BULKHEAD  | 801306014  | F. A9 1/2 JIC BH      |
| NIPPLE                        | 3/8       | 1/2       | JIC BULKHEAD  | 801306015  | M. A9 1/2 JIC BH      |
| COUPLER                       | 1/2       | 1/2       | JIC BULKHEAD  | 803306006  | F. A13D 1/2 JIC BH    |
| NIPPLE                        | 1/2       | 1/2       | JIC BULKHEAD  | 801306031  | F. A13D 1/2 JIC BH    |
| COUPLER                       | 1/2       | 5/8       | JIC BULKHEAD  | 803306000  | F. A13D 5/8 JIC BH    |
| NIPPLE                        | 1/2       | 5/8       | JIC BULKHEAD  | 801306017  | M. A13 5/8 JIC BH     |
| COUPLER                       | 1/2       | 3/4       | JIC BULKHEAD  | 801306024  | F. A13 3/4 JIC BH     |
| NIPPLE                        | 1/2       | 3/4       | JIC BULKHEAD  | 801306025  | M. A13 3/4 JIC BH     |
| COUPLER                       | 3/4       | 3/4       | JIC BULKHEAD  | 801306028  | F. A17 3/4 JIC BH     |
| NIPPLE                        | 3/4       | 3/4       | JIC BULKHEAD  | 801306029  | M. A17 3/4 JIC BH     |
| COUPLER                       | 1/2       | 5/8       | JIC INTERNAL  | 803706002  | F. A13 TI 5/8 JIC INT |
| NIPPLE                        | 1/2       | 5/8       | JIC INTERNAL  | 803706003  | M. A13 TI 5/8 JIC INT |
| COUPLER                       | 1/2       | 5/8       | ORFS BULKHEAD | 803313000  | F. A13D 5/8 ORFSBH    |
| NIPPLE                        | 1/2       | 5/8       | ORFS BULKHEAD | 801313001  | M. A13 5/8 ORFSBH     |
| COUPLER                       | 1/2       | 3/4       | ORFS BULKHEAD | 803313002  | F. A13D 3/4 ORFSBH    |
| NIPPLE                        | 1/2       | 3/4       | ORFS BULKHEAD | 801313005  | M. A13 3/4 ORFSBH     |
| COUPLER                       | 1/2       | 1         | ORFS BULKHEAD | 803313004  | F. A13D 1 ORFSBH      |
| NIPPLE                        | 1/2       | 1         | ORFS BULKHEAD | 801313007  | M. A13 1 ORFSBH       |



# ISO 16028 Interchange Couplings Flat Face



COUPLER



NIPPLE

## Interchange\_SAE Thread | ISO 16028

| PART                 | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION   |
|----------------------|-----------|-----------|-------------|------------|--------------------|
| A PREMIER SAE THREAD |           |           |             |            |                    |
| COUPLER              | 1/8       | 1/8       | SAE         | 801304002  | F. A4 3/16 SAE     |
| NIPPLE               | 1/8       | 1/8       | SAE         | 801304003  | M. A4 3/16 SAE     |
| COUPLER              | 1/4       | 3/8       | SAE         | 801304004  | F. A7 3/8 SAE      |
| NIPPLE               | 1/4       | 3/8       | SAE         | 800804001  | M. FIRG 14 3/8 SAE |
| COUPLER              | 3/8       | 3/8       | SAE         | 801304006  | F. A9 3/8 SAE      |
| NIPPLE               | 3/8       | 3/8       | SAE         | 801304005  | M. A9 3/8 SAE      |
| COUPLER              | 3/8       | 1/2       | SAE         | 801304008  | F. A9 1/2 SAE      |
| NIPPLE               | 3/8       | 1/2       | SAE         | 801304007  | M. A9 1/2 SAE      |
| COUPLER              | 3/8       | 5/8       | SAE         | 801304030  | F. A9 5/8 SAE      |
| NIPPLE               | 3/8       | 5/8       | SAE         | 801304031  | M. A9 5/8 SAE      |
| COUPLER              | 1/2       | 1/2       | SAE         | 803304004  | F. A13 1/2 SAE     |
| NIPPLE               | 1/2       | 1/2       | SAE         | 801304035  | M. A13 1/2 SAE     |
| COUPLER              | 1/2       | 5/8       | SAE         | 801304024  | F. A13 5/8 SAE     |
| NIPPLE               | 1/2       | 5/8       | SAE         | 801304025  | M. A13 5/8 SAE     |
| COUPLER              | 1/2       | 3/4       | SAE         | 801304010  | F. A13 3/4 SAE     |
| NIPPLE               | 1/2       | 3/4       | SAE         | 801304009  | M. A13 3/4 SAE     |
| COUPLER              | 5/8       | 3/4       | SAE         | 801304012  | F. A15 3/4 SAE     |
| NIPPLE               | 5/8       | 3/4       | SAE         | 801304011  | M. A15 3/4 SAE     |
| COUPLER              | 3/4       | 3/4       | SAE         | 801304028  | F. A17 3/4 SAE     |
| NIPPLE               | 3/4       | 3/4       | SAE         | 801304029  | M. A17 3/4 SAE     |
| COUPLER              | 3/4       | 1         | SAE         | 801304000  | F. A17 1 SAE       |
| NIPPLE               | 3/4       | 1         | SAE         | 801304001  | M. A17 1 SAE       |
| COUPLER              | 1         | 1         | SAE         | 801304038  | F. A21 1 SAE       |
| NIPPLE               | 1         | 1         | SAE         | 801304039  | M. A21 1 SAE       |
| COUPLER              | 1         | 1 1/4     | SAE         | 801304014  | F. A21 1 1/4 SAE   |
| NIPPLE               | 1         | 1 1/4     | SAE         | 801304013  | M. A21 1 1/4 SAE   |
| COUPLER              | 1 1/4     | 1 1/4     | SAE         | 801304042  | F. A25 1 1/4 SAE   |
| NIPPLE               | 1 1/4     | 1 1/4     | SAE         | 801304043  | M. A25 1 1/4 SAE   |
| COUPLER              | 1 1/2     | 1 1/2     | SAE         | 801304016  | F. A30 1 1/2 SAE   |
| NIPPLE               | 1 1/2     | 1 1/2     | SAE         | 801304015  | M. A30 1 1/2 SAE   |



## Hand Tool Applications\_Special Configuration | ISO 16028

| PART                        | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION      |
|-----------------------------|-----------|-----------|-------------|------------|-----------------------|
| A PREMIER MALE SAE THREAD   |           |           |             |            |                       |
| COUPLER                     | 3/8       | 3/8       | MALE SAE    | 803704004  | F. A9 3/8 T30 SAE EXT |
| NIPPLE                      | 3/8       | 3/8       | MALE SAE    | 801304037  | M. A9 3/8 SAE EXT     |
| COUPLER                     | 3/8       | 1/2       | MALE SAE    | 803704006  | F. A9 1/2 T30 SAE EXT |
| COUPLER                     | 3/8       | 1/2       | MALE SAE    | 801304032  | F. A9 1/2 SAE EXT     |
| NIPPLE                      | 3/8       | 1/2       | MALE SAE    | 801304033  | M. A9 1/2 SAE EXT     |
| A PREMIER FEMALE NPT THREAD |           |           |             |            |                       |
| COUPLER                     | 3/8       | 3/8       | FEMALE NPT  | 803601000  | F. FIRG 3/8 T30 NPT   |
| COUPLER                     | 3/8       | 1/2       | FEMALE NPT  | 803601002  | F. FIRG 1/2 T30 NPT   |

# ISO 16028 Interchange Couplings Flat Face: Interchange Ports



## Flat Face: International Ports

**Series: "A" Premier**

**Interchange:** ISO 16028

"A" series couplings are in compliance for interchangeability and performance of ISO 16028

**International Ports:** British or German DIN

All features and benefits of "A" Premier series with convenient international port configurations

- Seals: Nitrile & Teflon anti-extrusion
- Eliminate hard to find adapters and leak points
- Nipple: hardened steel reduces brinnelling
- 12 to 20 balls to increase the male bearing points and decrease the brinnelling effect
- Lock system stops unwanted disconnect
- Exceeds impulse test of ISOA-7241 test





# ISO 16028 Interchange Couplings

## Flat Face: International Ports

### BSP International Port\_ISO 16028

| PART                 | BODY SIZE | THREAD TYPE | THREAD SIZE | PORT THREAD | ORDER CODE | PART DESCRIPTION |
|----------------------|-----------|-------------|-------------|-------------|------------|------------------|
| A PREMIER BSP THREAD |           |             |             |             |            |                  |
| COUPLER              | 1/8       | BSP         | 1/8         | 1/8 - 19    | 801300002  | F. A4 1/8 BSP    |
| NIPPLE               | 1/8       | BSP         | 1/8         | 1/8 - 19    | 801300003  | M. A4 1/8 BSP    |
| COUPLER              | 1/4       | BSP         | 1/4         | 1/4 - 19    | 801300004  | F. A7 1/4 BSP    |
| NIPPLE               | 1/4       | BSP         | 1/4         | 1/4 - 19    | 801300031  | M. A7 1/4 BSP    |
| NIPPLE               | 3/8       | BSP         | 3/8         | 3/8 - 19    | 801300005  | M. A9 3/8 BSP    |
| COUPLER              | 3/8       | BSP         | 3/8         | 3/8 - 19    | 801300006  | F. A9 3/8 BSP    |
| NIPPLE               | 3/8       | BSP         | 1/2         | 1/2 - 14    | 801300007  | M. A9 1/2 BSP    |
| COUPLER              | 3/8       | BSP         | 1/2         | 1/2 - 14    | 801300008  | F. A9 1/2 BSP    |
| NIPPLE               | 1/2       | BSP         | 1/2         | 1/2 - 14    | 801300013  | M. A13 1/2 BSP   |
| COUPLER              | 1/2       | BSP         | 1/2         | 1/2 - 14    | 801300014  | F. A13 1/2 BSP   |
| NIPPLE               | 1/2       | BSP         | 3/4         | 3/4 - 14    | 801300015  | M. A13 3/4 BSP   |
| COUPLER              | 1/2       | BSP         | 3/4         | 3/4 - 14    | 801300016  | F. A13 3/4 BSP   |
| NIPPLE               | 5/8       | BSP         | 3/4         | 3/4 - 14    | 801300021  | M. A15 3/4 BSP   |
| COUPLER              | 5/8       | BSP         | 3/4         | 3/4 - 14    | 801300022  | F. A15 3/4 BSP   |
| COUPLER              | 3/4       | BSP         | 3/4         | 3/4 - 14    | 801300040  | F. A17 3/4 BSP   |
| NIPPLE               | 3/4       | BSP         | 3/4         | 3/4 - 14    | 801300041  | M. A17 3/4 BSP   |
| COUPLER              | 3/4       | BSP         | 1           | 1 - 11      | 801300000  | F. A17 1 BSP     |
| NIPPLE               | 3/4       | BSP         | 1           | 1 - 11      | 801300001  | M. A17 1 BSP     |
| NIPPLE               | 1         | BSP         | 1 1/4       | 1 1/4 - 11  | 801300023  | M. A21 1 1/4 BSP |
| COUPLER              | 1         | BSP         | 1 1/4       | 1 1/4 - 11  | 801300024  | F. A21 1 1/4 BSP |
| COUPLER              | 1 1/4     | BSP         | 1 1/4       | 1 1/4 - 11  | 801300052  | F. A25 1 1/4 BSP |
| NIPPLE               | 1 1/4     | BSP         | 1 1/4       | 1 1/4 - 11  | 801300053  | M. A25 1 1/4 BSP |
| COUPLER              | 1 1/2     | BSP         | 1 1/2       | 1 1/2 - 11  | 801300026  | F. A30 1 1/2 BSP |
| NIPPLE               | 1 1/2     | BSP         | 1 1/2       | 1 1/2 - 11  | 801300025  | M. A30 1 1/2 BSP |



# DIN International Port\_L (Light) and S (Heavy) | ISO 16028 | DIN 3852

| PARTS                | BODY SIZE | METRIC THREAD | PART SERIES | TUBE O.D. | THREAD SIZE | ORDER CODE | PART DESCRIPTION |
|----------------------|-----------|---------------|-------------|-----------|-------------|------------|------------------|
| A PREMIER DIN THREAD |           |               |             |           |             |            |                  |
| COUPLER              | 1/4       | DIN           | L           | 10        | M 16X1.5    | 801308010  | F. A7 L10        |
| NIPPLE               | 1/4       | DIN           | L           | 10        | M 16X1.5    | 801308011  | M. A7 L10        |
| COUPLER              | 3/8       | DIN           | L           | 10        | M 16X1.5    | 801308008  | F. A9 L10        |
| NIPPLE               | 3/8       | DIN           | L           | 10        | M 16X1.5    | 801308009  | M. A9 L10        |
| COUPLER              | 3/8       | DIN           | L           | 12        | M 18X1.5    | 801308004  | F. A9 L12        |
| NIPPLE               | 3/8       | DIN           | L           | 12        | M 18X1.5    | 801308005  | M. A9 L12        |
| COUPLER              | 3/8       | DIN           | L           | 15        | M 22X1.5    | 801308006  | F. A9 L15        |
| NIPPLE               | 3/8       | DIN           | L           | 15        | M 22X1.5    | 801308007  | M. A9 L15        |
| COUPLER              | 1/2       | DIN           | L           | 12        | M 18X1.5    | 801308000  | F. A13 L12       |
| NIPPLE               | 1/2       | DIN           | L           | 12        | M 18X1.5    | 801308001  | M. A13 L12       |
| COUPLER              | 1/2       | DIN           | L           | 15        | M 22X1.5    | 801308002  | F. A13 L15       |
| NIPPLE               | 1/2       | DIN           | L           | 15        | M 22X1.5    | 801308003  | M. A13 L15       |
| COUPLER              | 5/8       | DIN           | L           | 15        | M 22X1.5    | 801308016  | F. A15 L15       |
| NIPPLE               | 5/8       | DIN           | L           | 15        | M 22X1.5    | 801308017  | M. A15 L15       |
| COUPLER              | 5/8       | DIN           | L           | 22        | M 30X2      | 801308020  | F. A15 L22       |
| NIPPLE               | 5/8       | DIN           | L           | 22        | M 30X2      | 801308021  | M. A15 L22       |
| COUPLER              | 3/4       | DIN           | L           | 22        | M 30X2      | 801308024  | F. A17 L22       |
| NIPPLE               | 3/4       | DIN           | L           | 22        | M 30X2      | 801308025  | M. A17 L22       |
| COUPLER              | 1/4       | DIN           | S           | 10        | M 18X1.5    | 801309004  | F. A7 S10        |
| NIPPLE               | 1/4       | DIN           | S           | 10        | M 18X1.5    | 801309005  | M. A7 S10        |
| COUPLER              | 3/8       | DIN           | S           | 10        | M 18X1.5    | 801309006  | F. A9 S10        |
| NIPPLE               | 3/8       | DIN           | S           | 10        | M 18X1.5    | 801309007  | M. A9 S10        |
| COUPLER              | 3/8       | DIN           | S           | 12        | M 20X1.5    | 801309008  | F. A9 S12        |
| NIPPLE               | 3/8       | DIN           | S           | 12        | M 20X1.5    | 801309009  | M. A9 S12        |
| COUPLER              | 1/2       | DIN           | S           | 12        | M 20X1.5    | 801309014  | F. A13 S12       |
| NIPPLE               | 1/2       | DIN           | S           | 12        | M 20X1.5    | 801309015  | M. A13 S12       |
| COUPLER              | 3/8       | DIN           | FEMALE      | 22        | M 22X1.5    | 801312000  | F. A9 M22X1.5    |
| NIPPLE               | 3/8       | DIN           | FEMALE      | 22        | M 22X1.5    | 801312001  | M. A9 M22X1.5    |



COUPLER  
L (LIGHT) OR S (HEAVY)



NIPPLE  
PORT SERIES:  
L (LIGHT) OR S (HEAVY)

# ISO 16028 Interchange Couplings

## Flat Face: International Ports

**DIN International Port**\_L (Light) and S (Heavy) | SCHOTT (DIN Blukhead) | ISO 16028 | DIN 3852

| PART                        | BODY SIZE | METRIC THREAD | PORT SERIES | TUBE O.D. | THREAD SIZE     | ORDER CODE | PART DESCRIPTION  |
|-----------------------------|-----------|---------------|-------------|-----------|-----------------|------------|-------------------|
| <b>A PREMIER DIN THREAD</b> |           |               |             |           |                 |            |                   |
| COUPLER                     | 1/4       | DIN           | L           | 10        | M 16X1.5 SCHOTT | 801310010  | F. A7 L10 SCHOTT  |
| NIPPLE                      | 1/4       | DIN           | L           | 10        | M 16X1.5 SCHOTT | 801310011  | M. A7 L10 SCHOTT  |
| COUPLER                     | 3/8       | DIN           | L           | 12        | M 18X1.5 SCHOTT | 801310004  | F. A9 L12 SCHOTT  |
| NIPPLE                      | 3/8       | DIN           | L           | 12        | M 18X1.5 SCHOTT | 801310005  | M.A9 L12 SCHOTT   |
| COUPLER                     | 3/8       | DIN           | L           | 15        | M 16X1.5 SCHOTT | 801310006  | F. A9 L15 SCHOTT  |
| NIPPLE                      | 3/8       | DIN           | L           | 15        | M 16X1.5 SCHOTT | 801310007  | M. A9 L15 SCHOTT  |
| COUPLER                     | 3/8       | DIN           | L           | 10        | M 16X1.5 SCHOTT | 801310008  | F. A9 L10 SCHOTT  |
| NIPPLE                      | 3/8       | DIN           | L           | 10        | M 16X1.5 SCHOTT | 801310009  | M. A9 L10 SCHOTT  |
| COUPLER                     | 1/2       | DIN           | L           | 12        | M 18X1.5 SCHOTT | 801310000  | F. A13 L12 SCHOTT |
| NIPPLE                      | 1/2       | DIN           | L           | 12        | M 18X1.5 SCHOTT | 801310001  | M. A13 L12 SCHOTT |
| COUPLER                     | 1/2       | DIN           | L           | 15        | M 22X1.5 SCHOTT | 801310002  | F. A13 L15 SCHOTT |
| NIPPLE                      | 1/2       | DIN           | L           | 15        | M 22X1.5 SCHOTT | 801310003  | M. A13 L15 SCHOTT |
| COUPLER                     | 5/8       | DIN           | L           | 18        | M 26X1.5 SCHOTT | 801310018  | F. A15 L18 SCHOTT |
| NIPPLE                      | 5/8       | DIN           | L           | 18        | M 26X1.5 SCHOTT | 801310019  | M. A15 L18 SCHOTT |
| COUPLER                     | 5/8       | DIN           | L           | 22        | M 30X1.5 SCHOTT | 801310020  | F. A15 L22 SCHOTT |
| NIPPLE                      | 5/8       | DIN           | L           | 22        | M 30X1.5 SCHOTT | 801310021  | M. A15 L22 SCHOTT |
| COUPLER                     | 3/4       | DIN           | L           | 18        | M 26X1.5 SCHOTT | 801310022  | F. A17 L18 SCHOTT |
| NIPPLE                      | 3/4       | DIN           | L           | 18        | M 26X1.5 SCHOTT | 801310023  | M. A17 L18 SCHOTT |
| COUPLER                     | 3/4       | DIN           | L           | 22        | M 30X1.5 SCHOTT | 801310024  | F. A17 L22 SCHOTT |
| NIPPLE                      | 3/4       | DIN           | L           | 22        | M 30X1.5 SCHOTT | 801310025  | M. A17 L22 SCHOTT |
| COUPLER                     | 3/8       | DIN           | S           | 12        | M 20X1.5 SCHOTT | 801311008  | F. A9 S12 SCHOTT  |
| NIPPLE                      | 3/8       | DIN           | S           | 12        | M 20X1.5 SCHOTT | 801311009  | M. A9 S12 SCHOTT  |
| COUPLER                     | 1/2       | DIN           | S           | 12        | M 20X1.5 SCHOTT | 801311014  | F. A13 S12 SCHOTT |
| NIPPLE                      | 1/2       | DIN           | S           | 12        | M 20X1.5 SCHOTT | 801311015  | M. A13 S12 SCHOTT |
| COUPLER                     | 1/2       | DIN           | S           | 16        | M 24X1.5 SCHOTT | 801311018  | F. A13 S16 SCHOTT |
| NIPPLE                      | 1/2       | DIN           | S           | 16        | M 24X1.5 SCHOTT | 801311019  | M. A13 S16 SCHOTT |
| COUPLER                     | 5/8       | DIN           | S           | 16        | M 24X1.5 SCHOTT | 801311022  | F. A15 S16 SCHOTT |
| NIPPLE                      | 5/8       | DIN           | S           | 16        | M 24X1.5 SCHOTT | 801311023  | M. A15 S16 SCHOTT |
| COUPLER                     | 5/8       | DIN           | S           | 20        | M 30X1.5 SCHOTT | 801311024  | F. A15 S20 SCHOTT |
| NIPPLE                      | 5/8       | DIN           | S           | 20        | M 30X1.5 SCHOTT | 801311025  | M. A15 S20 SCHOTT |



COUPLER  
L (LIGHT) OR S (HEAVY)  
SCHOTT



NIPPLE  
L (LIGHT) OR S (HEAVY)  
SCHOTT



**DIN International Port**\_L (Light) and S (Heavy) | SCHOTT (DIN Blukhead) | No Safety Lock Mechanism | ISO 16028 | DIN 3852

| PART                        | BODY SIZE | METRIC THREAD | PORT SERIES | TUBE O.D. | THREAD SIZE     | ORDER CODE | PART DESCRIPTION     |
|-----------------------------|-----------|---------------|-------------|-----------|-----------------|------------|----------------------|
| <b>A PREMIER DIN THREAD</b> |           |               |             |           |                 |            |                      |
| COUPLER                     | 1/4       | DIN           | L           | 10        | M 16X1.5 SCHOTT | 803010008  | F. A7 SS L10 SCHOTT  |
| COUPLER                     | 3/8       | DIN           | L           | 10        | M 16X1.5 SCHOTT | 803010010  | F. A9 SS L10 SCHOTT  |
| COUPLER                     | 3/8       | DIN           | L           | 12        | M 18X1.5 SCHOTT | 803010004  | F. A9 SS L12 SCHOTT  |
| COUPLER                     | 3/8       | DIN           | L           | 15        | M 22X1.5 SCHOTT | 803010006  | F. A9 SS L15 SCHOTT  |
| COUPLER                     | 1/2       | DIN           | L           | 12        | M 18X1.5 SCHOTT | 803010000  | F. A13 SS L12 SCHOTT |
| COUPLER                     | 1/2       | DIN           | L           | 15        | M 22X1.5 SCHOTT | 803010002  | F. A13 SS L15 SCHOTT |
| COUPLER                     | 1/2       | DIN           | L           | 22        | M 22X2 SCHOTT   | 803010012  | F. A13 SS L22 SCHOTT |
| COUPLER                     | 3/8       | DIN           | L           | 15        | M 22X1.5        | 803108000  | F. A9 K SS L15       |
| COUPLER                     | 3/8       | DIN           | L           | 12        | M 18X1.5        | 803108002  | F. A9 K SS L12       |
| COUPLER                     | 3/8       | DIN           | L           | 12        | M 18X1.5        | 803008004  | F. A9 SS L12         |
| COUPLER                     | 3/8       | DIN           | L           | 15        | M 22X1.5        | 803008006  | F. A9 SS L15         |
| COUPLER                     | 3/8       | DIN           | L           | 10        | M 16X1.5        | 803008010  | F. A9 SS L10         |
| COUPLER                     | 1/2       | DIN           | L           | 22        | M 22X2          | 803008018  | F. A13 SS L22        |
| COUPLER                     | 5/8       | DIN           | L           | 22        | M 22X2          | 803008016  | F. A15 SS L22        |
| COUPLER                     | 3/8       | DIN           | S           | 12        | M 20X1.5        | 803009000  | F. A9 SS S12         |
| COUPLER                     | 1/2       | DIN           | S           | 12        | M 20X1.5        | 803009002  | F. A13 SS S12        |
| COUPLER                     | 1/2       | DIN           | S           | 16        | M 24X1.5 SCHOTT | 803011000  | F. A13 SS S16 SCHOTT |
| COUPLER                     | 1/2       | DIN           | S           | 20        | M 30X2 SCHOTT   | 803011002  | F. A13 SS S20 SCHOTT |

### To identify the DIN fitting size, measure the following:

Using a thread gauge, determine the number of millimeters per thread. With calipers, find the thread diameter by measuring the O.D. on the male and I.D. on the female. Measure the tube O.D. with the calipers so you can identify the fitting as either light series or heavy series.



# ISO 16028 Interchange Couplings Flat Face



## Flat Face

### Series: FIRG

**Interchange:** ISO 16028

The FIRG quick coupling, head of the family of flat face has been produced since 1983. Interchangeability in accordance with ISO 16028. The interchangeability of size 3/8 is also in accordance with NFPA T3.20.15 (HTMA).

- Nitrile seal with specially shaped anti extrusion rings in Teflon
- FIRG designed integrated sealing mechanism greatly reduces premature wear by movement between coupler and nipple parts caused by impulse pressure and by the weight of the flexible pipes when the coupling is in horizontal position

### Overview

The "Original One", that is the FIRG flat face series from Stucchi. Developed in 1983, Stucchi has supplied the original ISO 16028 interchangeable coupling, and still continues to supply this series due to the good performance, long life and competitive prices on this series.

### Applications

Mobile Construction, Agriculture, General Industrial, Mining or anywhere fluid loss and contamination of a hydraulic circuit needs to be eliminated.

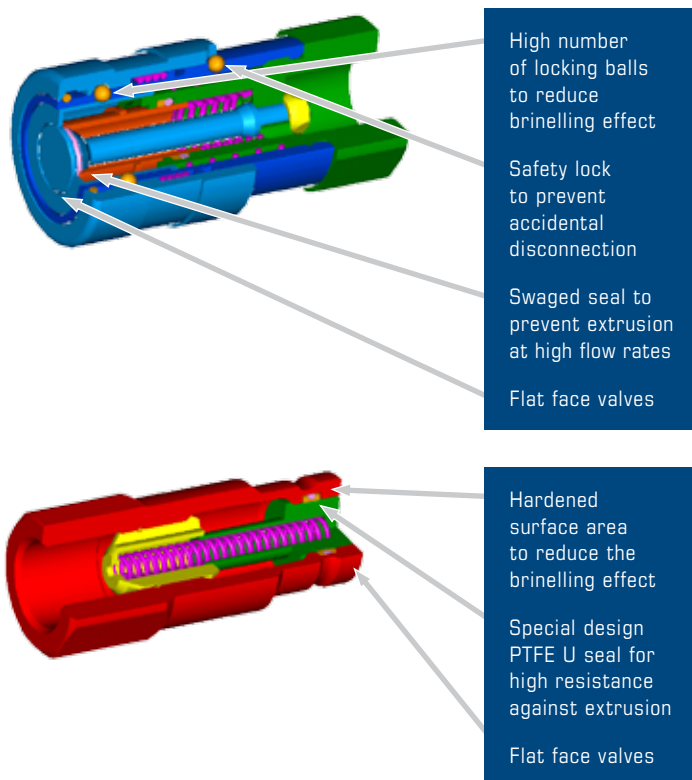
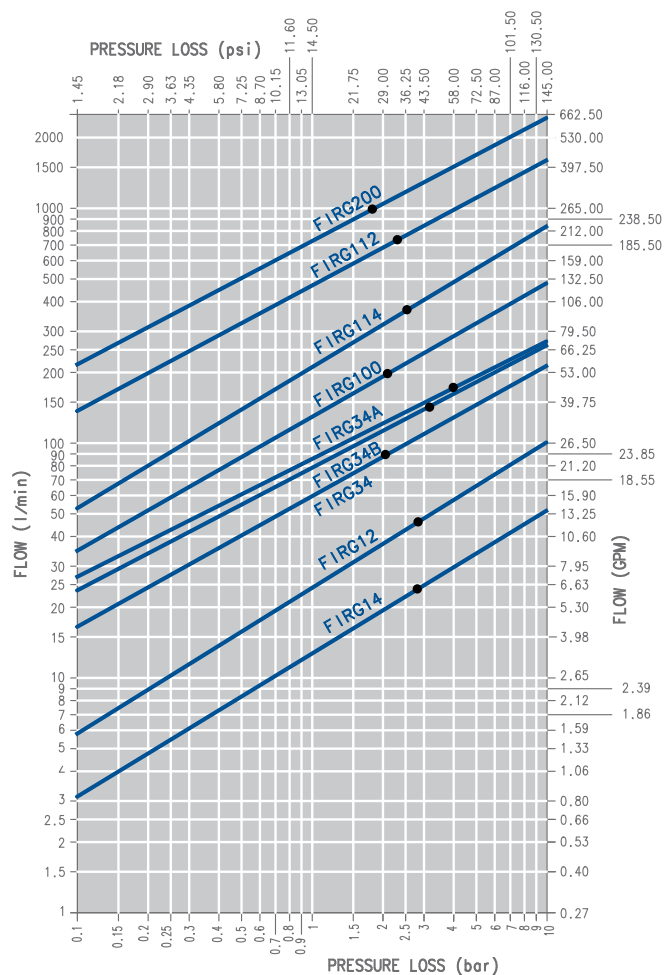
### Options

- Couplings: zinc plated steel
- Nipple: hardened steel for anti-brinelling
- Seals: Nitrile with Teflon anti-extrusion ring
- Viton, Kalrez, EPDM upon request
- Ports: NPT, SAE
- Tight tolerances ensure equal loading of couplers
- Female seal swaged to prevent extrusion
- No air inclusion during connection
- Flat mating surface easily cleaned
- Non-spill design avoids fluid loss during connection/disconnection

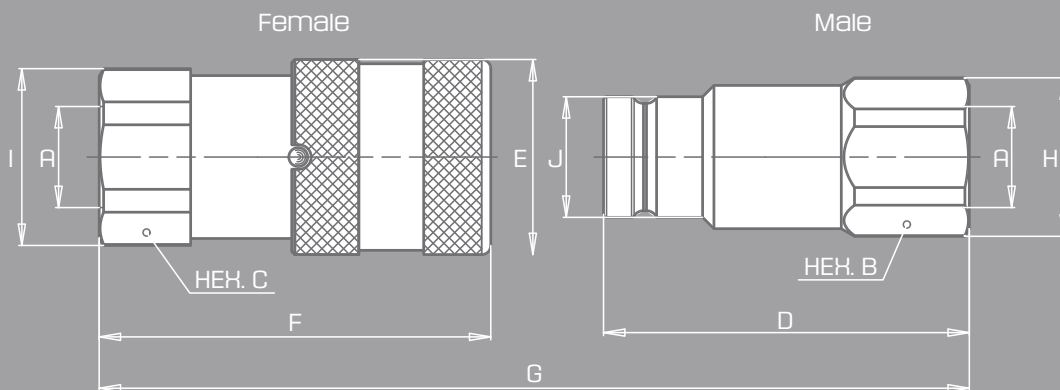


| DESCRIPTION | SIZE  | ISO SIZE | MAX. OPERATING<br>PRESSURE COUPLED |      | BURST PRESSURE |       |      |       |        |       | SPILLAGE* |
|-------------|-------|----------|------------------------------------|------|----------------|-------|------|-------|--------|-------|-----------|
|             |       |          |                                    |      | COUPLED        |       | MALE |       | FEMALE |       |           |
|             |       |          | MPa                                | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |           |
| FIRG14      | 1/4   | 6.3      | 30                                 | 4350 | 120            | 17400 | 126  | 18270 | 48     | 6960  | 0.006     |
| FIRG38-12   | 3/8   | 10.0     | 30                                 | 4350 | 120            | 17400 | 120  | 17400 | 48     | 6960  | 0.012     |
| FIRG12A-34  | 1/2   | 12.5     | 25                                 | 3625 | 100            | 14500 | 100  | 14500 | 40     | 5800  | 0.020     |
| FIRG34B     | 5/8   | 16.0     | 25                                 | 3625 | 100            | 14500 | 88   | 12760 | 40     | 5800  | 0.026     |
| FIRG34A     | 3/4   | 19.0     | 33                                 | 4785 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.032     |
| FIRG100     | 3/4   | 19.0     | 25                                 | 3625 | 100            | 14500 | 80   | 11600 | 40     | 5800  | 0.032     |
| FIRG114     | 1     | 25.0     | 25                                 | 3625 | 100            | 14500 | 80   | 11600 | 40     | 5800  | 0.035     |
| FIRG112     | 1 1/2 | -        | 20                                 | 2900 | 80             | 11600 | 80   | 11600 | 32     | 4640  | 0.050     |
| FIRG200     | 2     | -        | 20                                 | 2900 | 80             | 11600 | 64   | 9280  | 32     | 4640  | 0.100     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE.



## Flat Face: FIRG Series Size Diagram



| DESCRIPTION | BODY SIZE | A     | UNIT | B    | C    | D     | E     | F     | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-------|------|------|------|-------|-------|-------|-------|------|------|------|------|--------|--------|
|             |           |       |      |      |      |       |       |       |       |      |      |      |      | MALE   | FEMALE |
| FIRG14      | 1/4       | 1/4   | mm   | 22.0 | 22.0 | 47.9  | 28.0  | 48.1  | 85.2  | 23.8 | 23.8 | 16.1 | Kg   | 0.086  | 0.140  |
|             |           |       | inch | 0.87 | 0.87 | 1.89  | 1.10  | 1.89  | 3.35  | 0.94 | 0.94 | 0.63 | lb   | 0.19   | 0.31   |
| FIRG38      | 3/8       | 3/8   | mm   | 24.0 | 27.0 | 60.0  | 32.0  | 64.2  | 108.7 | 26.0 | 29.0 | 19.7 | Kg   | 0.121  | 0.235  |
|             |           |       | inch | 0.94 | 1.06 | 2.36  | 1.26  | 2.53  | 4.28  | 1.02 | 1.14 | 0.78 | lb   | 0.27   | 0.52   |
| FIRG12      | 3/8       | 1/2   | mm   | 27.0 | 27.0 | 62.5  | 32.0  | 69.2  | 116.2 | 29.0 | 29.0 | 19.7 | Kg   | 0.128  | 0.237  |
|             |           |       | inch | 1.06 | 1.06 | 2.46  | 1.26  | 2.72  | 4.57  | 1.14 | 1.14 | 0.78 | lb   | 0.28   | 0.52   |
| FIRG12A     | 1/2       | 1/2   | mm   | 32.0 | 32.0 | 68.0  | 38.0  | 73.8  | 124.5 | 33.8 | 33.8 | 24.5 | Kg   | 0.233  | 0.375  |
|             |           |       | inch | 1.26 | 1.26 | 2.68  | 1.50  | 2.91  | 4.90  | 1.33 | 1.33 | 0.96 | lb   | 0.51   | 0.83   |
| FIRG34      | 1/2       | 3/4   | mm   | 36.0 | 36.0 | 70.5  | 38.0  | 80.8  | 134.0 | 38.5 | 38.5 | 24.5 | Kg   | 0.227  | 0.413  |
|             |           |       | inch | 1.42 | 1.42 | 2.78  | 1.50  | 3.18  | 5.28  | 1.52 | 1.52 | 0.96 | lb   | 0.50   | 0.91   |
| FIRG34B     | 5/8       | 3/4   | mm   | 36.0 | 36.0 | 70.5  | 42.0  | 78.5  | 131.4 | 38.5 | 38.5 | 27.0 | Kg   | 0.268  | 0.479  |
|             |           |       | inch | 1.42 | 1.42 | 2.78  | 1.65  | 3.09  | 5.17  | 1.52 | 1.52 | 1.06 | lb   | 0.59   | 1.06   |
| FIRG34A     | 3/4       | 3/4   | mm   | 41.0 | 41.0 | 82.3  | 48.0  | 88.7  | 149.0 | 44.8 | 44.8 | 30.0 | Kg   | 0.445  | 0.750  |
|             |           |       | inch | 1.61 | 1.61 | 3.24  | 1.89  | 3.49  | 5.87  | 1.76 | 1.76 | 1.18 | lb   | 0.98   | 1.65   |
| FIRG100     | 3/4       | 1     | mm   | 45.0 | 45.0 | 82.3  | 48.0  | 93.2  | 153.5 | 47.8 | 47.8 | 30.0 | Kg   | 0.394  | 0.767  |
|             |           |       | inch | 1.77 | 1.77 | 3.24  | 1.89  | 3.67  | 6.04  | 1.88 | 1.88 | 1.18 | lb   | 0.87   | 1.69   |
| FIRG114     | 1         | 1 1/4 | mm   | 55.0 | 55.0 | 89.8  | 55.0  | 106.0 | 172.8 | 59.8 | 59.8 | 36.0 | Kg   | 0.641  | 1.215  |
|             |           |       | inch | 2.17 | 2.17 | 3.54  | 2.17  | 4.17  | 6.80  | 2.35 | 2.35 | 1.42 | lb   | 1.41   | 2.68   |
| FIRG112     | 1 1/2     | 1 1/2 | mm   | 65.0 | 65.0 | 111.1 | 80.0  | 132.4 | 214.9 | 69.8 | 72.0 | 57.0 | Kg   | 1.665  | 2.820  |
|             |           |       | inch | 2.56 | 2.56 | 4.37  | 3.15  | 5.21  | 8.46  | 2.75 | 2.83 | 2.24 | lb   | 3.67   | 6.22   |
| FIRG200     | 2         | 2     | mm   | 75.0 | 80.0 | 123.8 | 100.0 | 156.6 | 241.5 | 83.5 | 88.5 | 73.0 | Kg   | 2.259  | 5.100  |
|             |           |       | inch | 2.95 | 3.15 | 4.87  | 3.94  | 6.17  | 9.51  | 3.29 | 3.48 | 2.87 | lb   | 4.98   | 11.24  |



## FIRG-NPT and SAE Thread\_ISO 16028

| PART                   | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION    |
|------------------------|-----------|-----------|-------------|------------|---------------------|
| <b>FIRG NPT THREAD</b> |           |           |             |            |                     |
| COUPLER                | 1/4       | 1/4       | NPT         | 800801000  | F. FIRG 14 NPT      |
| NIPPLE                 | 1/4       | 1/4       | NPT         | 800801001  | M. FIRG 14 NPT      |
| COUPLER                | 3/8       | 1/2       | NPT         | 800801002  | F. FIRG 12 NPT      |
| NIPPLE                 | 3/8       | 1/2       | NPT         | 800801003  | M. FIRG 12 NPT      |
| COUPLER                | 3/8       | 3/8       | NPT         | 800801004  | F. FIRG 38 NPT      |
| NIPPLE                 | 3/8       | 3/8       | NPT         | 800801005  | M. FIRG 38 NPT      |
| COUPLER                | 1/2       | 1/2       | NPT         | 800801006  | F. FIRG 12A NPT     |
| NIPPLE                 | 1/2       | 1/2       | NPT         | 800801007  | M. FIRG 12A NPT     |
| COUPLER                | 1/2       | 3/4       | NPT         | 800801008  | F. FIRG 34 NPT      |
| NIPPLE                 | 1/2       | 3/4       | NPT         | 800801009  | M. FIRG 34 NPT      |
| COUPLER                | 5/8       | 3/4       | NPT         | 800801010  | F. FIRG 34B NPT     |
| NIPPLE                 | 5/8       | 3/4       | NPT         | 800801011  | M. FIRG 34B NPT     |
| COUPLER                | 3/4       | 3/4       | NPT         | 800801020  | F. FIRG 34A NPT     |
| NIPPLE                 | 3/4       | 3/4       | NPT         | 800801021  | M. FIRG 34A NPT     |
| COUPLER                | 3/4       | 1         | NPT         | 800801012  | F. FIRG 100 NPT     |
| NIPPLE                 | 3/4       | 1         | NPT         | 800801013  | M. FIRG 100 NPT     |
| COUPLER                | 1         | 1 1/4     | NPT         | 800801014  | F. FIRG 114 NPT     |
| NIPPLE                 | 1         | 1 1/4     | NPT         | 800801015  | M. FIRG 114 NPT     |
| COUPLER                | 1 1/2     | 1 1/2     | NPT         | 800801016  | F. FIRG 112 NPT     |
| NIPPLE                 | 1 1/2     | 1 1/2     | NPT         | 800801017  | M. FIRG 112 NPT     |
| COUPLER                | 2         | 2         | NPT         | 800801018  | F. FIRG 200 NPT     |
| NIPPLE                 | 2         | 2         | NPT         | 800801019  | M. FIRG 200 NPT     |
| <b>FIRG SAE THREAD</b> |           |           |             |            |                     |
| COUPLER                | 1/4       | 3/8       | SAE         | 800804000  | F. FIRG 14 3/8 SAE  |
| NIPPLE                 | 1/4       | 3/8       | SAE         | 800804001  | M. FIRG 14 3/8 SAE  |
| COUPLER                | 3/8       | 1/2       | SAE         | 800804002  | F. FIRG 38 1/2 SAE  |
| NIPPLE                 | 3/8       | 1/2       | SAE         | 800804003  | M. FIRG 38 1/2 SAE  |
| COUPLER                | 3/8       | 5/8       | SAE         | 800804004  | F. FIRG 12 5/8 SAE  |
| NIPPLE                 | 3/8       | 5/8       | SAE         | 800804005  | M. FIRG 12 5/8 SAE  |
| COUPLER                | 1/2       | 5/8       | SAE         | 800804006  | F. FIRG 12A 5/8 SAE |
| NIPPLE                 | 1/2       | 5/8       | SAE         | 800804007  | M. FIRG 12A 5/8 SAE |
| COUPLER                | 1/2       | 3/4       | SAE         | 800804008  | F. FIRG 34 SAE      |
| NIPPLE                 | 1/2       | 3/4       | SAE         | 800804009  | M. FIRG 34 SAE      |
| COUPLER                | 5/8       | 3/4       | SAE         | 800804010  | F. FIRG 34B SAE     |
| NIPPLE                 | 5/8       | 3/4       | SAE         | 800804011  | M. FIRG 34B SAE     |
| COUPLER                | 3/4       | 3/4       | SAE         | 800804020  | F. FIRG 34A SAE     |
| NIPPLE                 | 3/4       | 3/4       | SAE         | 800804021  | M. FIRG 34A SAE     |
| COUPLER                | 3/4       | 1         | SAE         | 800804012  | F. FIRG 100 SAE     |
| NIPPLE                 | 3/4       | 1         | SAE         | 800804013  | M. FIRG 100 SAE     |
| COUPLER                | 1         | 1 1/4     | SAE         | 800804014  | F. FIRG 114 SAE     |
| NIPPLE                 | 1         | 1 1/4     | SAE         | 800804015  | M. FIRG 114 SAE     |
| COUPLER                | 1 1/2     | 1 1/2     | SAE         | 800804016  | F. FIRG 112 SAE     |
| NIPPLE                 | 1 1/2     | 1 1/2     | SAE         | 800804017  | M. FIRG 112 SAE     |
| COUPLER                | 2         | 2         | SAE         | 800804018  | F. FIRG 200 SAE     |
| NIPPLE                 | 2         | 2         | SAE         | 800804019  | M. FIRG 200 SAE     |



COUPLER



NIPPLE

# ISO 16028 Interchange Couplings

## Connect Under Pressure



## Connect Under Pressure

### Series: APM

**Interchange:** ISO 16028

Male coupling APM series is the Stucchi solution to the problem of the connection in the presence of high internal residual pressure. Patented double internal security valve system in the male part allows the APM series to solve the problem of manual connections in the presence of high residual pressure. The APM series nipples are in accordance with ISO 16028.

- Zinc plated hardened steel
- Seals: Nitrile/Teflon standard
- NPT-SAE standard ports, others per request
- Connect with ISO 16028 coupler
- Connect up to 30 MPa/4350 psi residual pressure

### Overview

Stucchi APM series male couplings will connect by hand with residual pressure up to 30 MPa/4350 psi locked in the hydraulic circuit. It will connect with residual pressure without releasing any fluid into the environment. The mating circuit will need to be without residual pressure.

### Applications

Mobile equipment & attachment tools where exposure to the sun or temperature change causes pressure to develop due to thermal expansion of trapped fluid. Any application where static pressure can get locked into the system.

### Advantages

- Connects under high pressure by hand
- No air inclusion during connection
- Bi-directional Flow
- Elimination of fluid loss during connection or disconnection
- Easily cleaned before connection
- Interchangeable with ISO 16028

### Operation

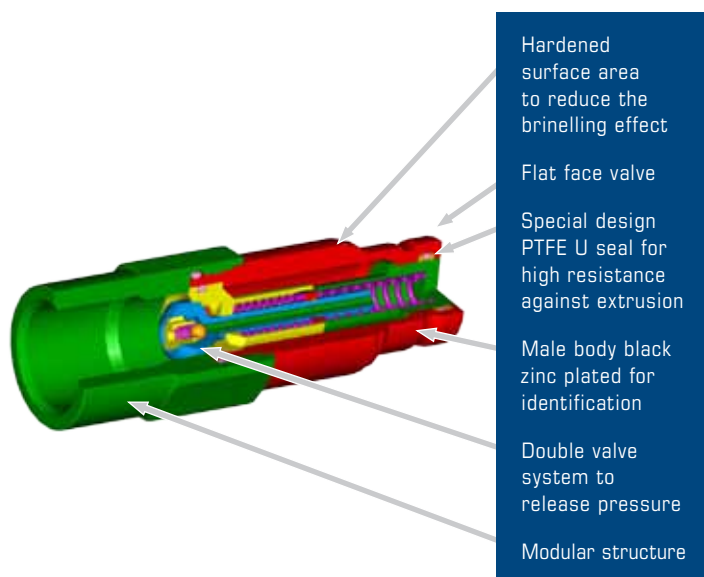
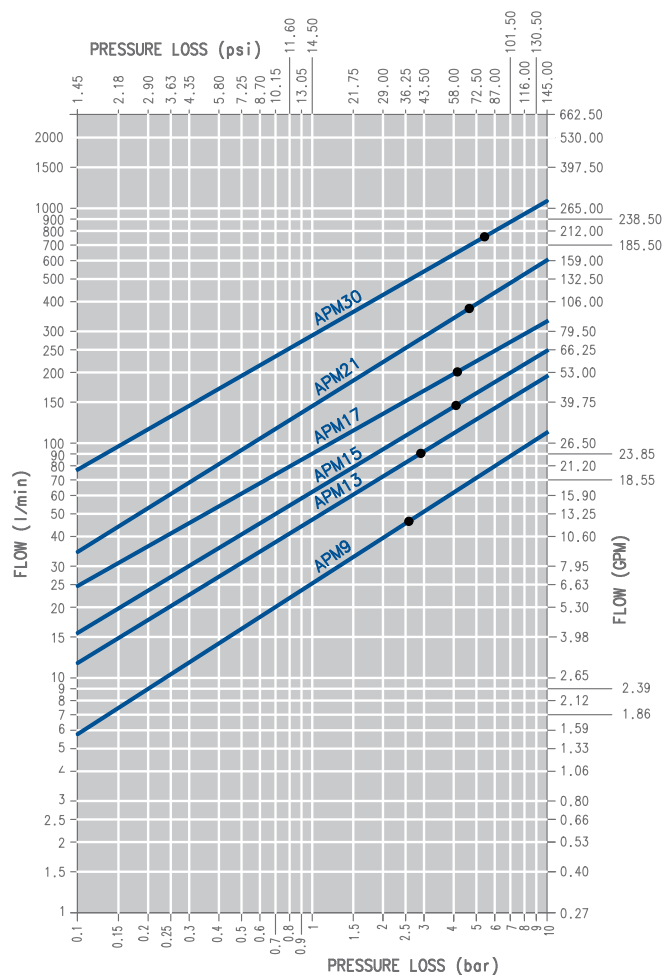
To connect, wipe the mating surfaces clean, align the coupling and nipple, push together. To disconnect, pull back the sleeve on the female and the coupler's release.



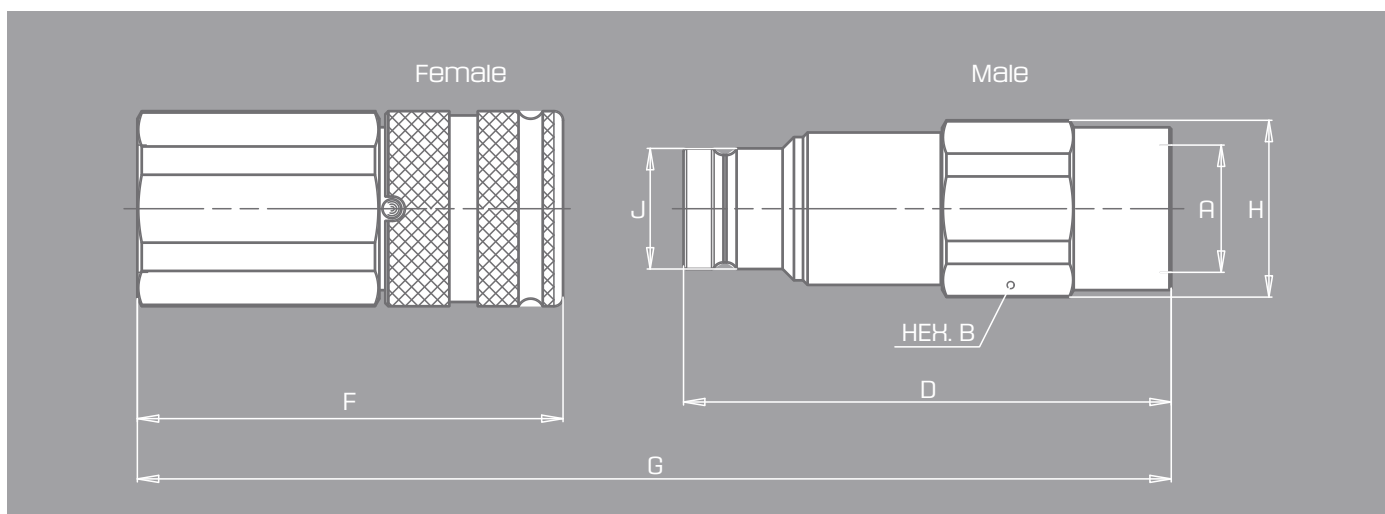


| DESCRIPTION | MAX. OPERATING PRESSURE |      |      |      | BURST PRESSURE |       |      |       | MAX. RESIDUAL PRESSURE DURING CONNECTION |      | SPILLAGE* |
|-------------|-------------------------|------|------|------|----------------|-------|------|-------|------------------------------------------|------|-----------|
|             | COUPLED                 |      | MALE |      | COUPLED        |       | MALE |       |                                          |      |           |
|             | MPa                     | psi  | MPa  | psi  | MPa            | psi   | MPa  | psi   | MPa                                      | psi  |           |
| APM9        | 35                      | 5075 | 35   | 5075 | 100            | 14500 | 120  | 17400 | 30                                       | 4350 | 0.016     |
| APM13       | 33                      | 4785 | 33   | 4785 | 100            | 14500 | 120  | 17400 | 30                                       | 4350 | 0.010     |
| APM15       | 33                      | 4785 | 33   | 4785 | 100            | 14500 | 120  | 17400 | 30                                       | 4350 | 0.120     |
| APM17       | 33                      | 4785 | 33   | 4785 | 100            | 14500 | 120  | 17400 | 25                                       | 3625 | 0.180     |
| APM21       | 30                      | 4350 | 30   | 4350 | 80             | 11600 | 100  | 14500 | 25                                       | 3625 | 0.180     |
| APM30       | 27                      | 3915 | 27   | 3915 | 80             | 11600 | 100  | 14500 | 20                                       | 2900 | 0.400     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE TESTED WITH FEMALE COUPLINGS "A" SERIES



### Flat Face: APM Series Size Diagram



| DESCRIPTION | BODY SIZE | A     | UNIT | B    | D     | G           | H    | J    | UNIT | WEIGHT |
|-------------|-----------|-------|------|------|-------|-------------|------|------|------|--------|
|             |           |       |      |      |       |             |      |      |      | MALE   |
| APM9 3/8    | 3/8       | 3/8   | mm   | 27.0 | 80.0  | (F+D)-16    | 29.0 | 19.7 | Kg   | 0.197  |
|             |           |       | inch | 1.06 | 3.15  | (F+D)-0,630 | 1.14 | 0.78 | lb   | 0.430  |
| APM9 1/2    | 3/8       | 1/2   | mm   | 27.0 | 82.5  | (F+D)-16    | 29.0 | 19.7 | Kg   | 0.195  |
|             |           |       | inch | 1.06 | 3.25  | (F+D)-0,630 | 1.14 | 0.78 | lb   | 0.430  |
| APM13 1/2   | 1/2       | 1/2   | mm   | 36.0 | 91.0  | (F+D)-17,3  | 38.5 | 24.5 | Kg   | 0.408  |
|             |           |       | inch | 1.42 | 3.58  | (F+D)-0,681 | 1.52 | 0.96 | lb   | 0.900  |
| APM13 3/4   | 1/2       | 3/4   | mm   | 36.0 | 93.5  | (F+D)-17,3  | 38.5 | 24.5 | Kg   | 0.404  |
|             |           |       | inch | 1.42 | 3.68  | (F+D)-0,681 | 1.52 | 0.96 | lb   | 0.890  |
| APM15 3/4   | 5/8       | 3/4   | mm   | 36.0 | 95.0  | (F+D)-17,6  | 38.5 | 27.0 | Kg   | 0.426  |
|             |           |       | inch | 1.42 | 3.74  | (F+D)-0,693 | 1.52 | 1.06 | lb   | 0.940  |
| APM17 1     | 3/4       | 1     | mm   | 46.0 | 108.5 | (F+D)-22    | 49.8 | 30.0 | Kg   | 0.750  |
|             |           |       | inch | 1.81 | 4.27  | (F+D)-0,866 | 1.96 | 1.18 | lb   | 1.650  |
| APM21 1-1/4 | 1         | 1 1/4 | mm   | 55.0 | 123.5 | (F+D)-23    | 59.8 | 36.0 | Kg   | 1.160  |
|             |           |       | inch | 2.17 | 4.86  | (F+D)-0,906 | 2.35 | 1.42 | lb   | 2.560  |
| APM30 1-1/2 | 1 1/2     | 1 1/2 | mm   | 70.0 | 146.9 | (F+D)-28,6  | 75.8 | 57.0 | Kg   | 2.580  |
|             |           |       | inch | 2.76 | 5.78  | (F+D)-1,126 | 2.98 | 2.24 | lb   | 5.690  |



## APM NPT, SAE and BSP Thread\_Nipple Connect Under Pressure | ISO 16028

| PART                | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION      |
|---------------------|-----------|-----------|-------------|------------|-----------------------|
| APM NPT THREAD      |           |           |             |            |                       |
| NIPPLE              | 3/8       | 3/8       | NPT         | 805201001  | M. APM 9 3/8 NPT      |
| NIPPLE              | 3/8       | 1/2       | NPT         | 805201003  | M. APM 9 1/2 NPT      |
| NIPPLE              | 1/2       | 1/2       | NPT         | 805201005  | M. APM 13 1/2 NPT     |
| NIPPLE              | 1/2       | 3/4       | NPT         | 805201007  | M. APM 13 3/4 NPT     |
| NIPPLE              | 5/8       | 3/4       | NPT         | 805201009  | M. APM 15 3/4 NPT     |
| NIPPLE              | 3/4       | 3/4       | NPT         | 805201019  | M. APM 17 3/4 NPT     |
| NIPPLE              | 3/4       | 1         | NPT         | 805201011  | M. APM 17 1 NPT       |
| NIPPLE              | 1         | 1 1/4     | NPT         | 805201017  | M. APM 21 1 1/4 NPT   |
| NIPPLE              | 1 1/2     | 1 1/2     | NPT         | 805201015  | M. APM 30 1 1/2 NPT   |
| APM SAE THREAD      |           |           |             |            |                       |
| NIPPLE              | 3/8       | 1/2       | SAE         | 805204001  | M. APM 9 1/2 SAE      |
| NIPPLE              | 1/2       | 5/8       | SAE         | 805204003  | M. APM 13 5/8 SAE     |
| NIPPLE              | 1/2       | 1/2       | SAE         | 805204025  | M. APM 13 1/2 SAE     |
| NIPPLE              | 1/2       | 3/4       | SAE         | 805204005  | M. APM 13 3/4 SAE     |
| NIPPLE              | 5/8       | 3/4       | SAE         | 805204007  | M. APM 15 3/4 SAE     |
| NIPPLE              | 3/4       | 3/4       | SAE         | 805204027  | M. APM 17 3/4 SAE     |
| NIPPLE              | 3/4       | 1         | SAE         | 805204009  | M. APM 17 1 SAE       |
| NIPPLE              | 1         | 1 1/4     | SAE         | 805204017  | M. APM 21 1 1/4 SAE   |
| NIPPLE              | 1 1/2     | 1 1/2     | SAE         | 805204015  | M. APM 30 1 1/2 SAE   |
| APM BULKHEAD THREAD |           |           |             |            |                       |
| NIPPLE              | 1/2       | 5/8       | ORFS BH     | 805213001  | M. APM 13 5/8 ORFS BH |
| NIPPLE              | 1/2       | 5/8       | JIC BH      | 805206001  | M. APM 13 5/8 JIC BH  |
| NIPPLE              | 1/2       | 1/2       | JIC BH      | 805206003  | M. APM 13 1/2 JIC BH  |
| APM BSP THREAD      |           |           |             |            |                       |
| NIPPLE              | 3/8       | 3/8       | BSP         | 805200001  | M. APM 9 3/8 BSP      |
| NIPPLE              | 3/8       | 1/2       | BSP         | 805200003  | M. APM 9 1/2 BSP      |
| NIPPLE              | 1/2       | 1/2       | BSP         | 805200005  | M. APM 13 1/2 BSP     |
| NIPPLE              | 1/2       | 3/4       | BSP         | 805200007  | M. APM 13 3/4 BSP     |
| NIPPLE              | 5/8       | 3/4       | BSP         | 805200009  | M. APM 15 3/4 BSP     |
| NIPPLE              | 3/4       | 1         | BSP         | 805200011  | M. APM 17 1 BSP       |



# ISO 16028 Interchange Couplings

## Connect Under Pressure Female



## Connect Under Pressure

### Series: A-HD

**Interchange:** ISO 16028

Female coupling A-HD series is the Stucchi solution to the problem of the connection in the presence of high internal residual pressure. The Stucchi internal valving allows the A-HD series to solve the problem of manual connections in the presence of high residual pressure. The A-HD series female couplers are in accordance with ISO 16028.

Connect Under Residual Pressure Female Coupler:

- Visual ID: black ring on coupler face
- Zinc plated hardened steel
- Seals: Nitrile/Teflon standard
- NPT-SAE standard ports, others per request
- Connect with ISO 16028 nipple
- Connect up to 1595 psi residual pressure

### Overview

Stucchi A-HD (formerly ASP) series female couplings will connect by hand with residual pressure of 1595 psi locked in the hydraulic circuit. It will connect with residual pressure without releasing any fluid into the environment. The mating circuit will need to be without residual pressure.

### Applications

Mobile equipment and attachment tools where exposure to the sun, or temperature change causes pressure to develop due to thermal expansion of trapped fluid. Any application where static pressure can get locked into the system.

### Advantages

- Visual ID: black ring on face of coupler
- Connects under pressure by hand: 1595 psi
- No air inclusion during connection
- Bi-directional flow
- Elimination of fluid loss during connection or disconnection
- Easily cleaned before connection
- Interchangeable with ISO 16028

### Operation

To connect, wipe the mating surfaces clean, align the coupling and nipple, push together. To disconnect, pull back the sleeve on the female and the coupler's release.



| STUCCHI SERIES | NOMINAL SIZE | ISO SIZE | MAX OPERATING PRESSURE COUPLED | MAX OPERATING PRESSURE COUPLED |
|----------------|--------------|----------|--------------------------------|--------------------------------|
|                | inches       | mm       | MPa                            | psi                            |
| A13HD          | 1/2          | 12.5     | 33                             | 4714                           |

#### A-HD NPT, SAE and JIC Thread\_Female Connect Under Pressure | ISO 16028

| PART            | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION    |
|-----------------|-----------|-----------|-------------|------------|---------------------|
| A-HD NPT THREAD |           |           |             |            |                     |
| COUPLER         | 1/2       | 1/2       | NPT         | 806801000  | F. A13HD 1/2 NPT    |
| COUPLER         | 1/2       | 3/4       | NPT         | 806801002  | F. A13HD 3/4 NPT    |
| A-HD SAE THREAD |           |           |             |            |                     |
| COUPLER         | 1/2       | 3/4       | SAE         | 806804000  | F. A13HD 3/4 SAE    |
| COUPLER         | 1/2       | 5/8       | SAE         | 806804006  | F. A13HD 5/8 SAE    |
| COUPLER         | 1/2       | 1/2       | SAE         | 808304016  | F. A13HD 1/2 SAE    |
| A-HD JIC THREAD |           |           |             |            |                     |
| COUPLER         | 1/2       | 5/8       | JIC BH      | 806806000  | F. A13HD 5/8 JIC BH |





# ISO 16028 Interchange Flat Face Push Pull



## Series: Push Pull

**Interchange:** ISO 16028

The Push Pull coupler is built on the "A" Premier platform, thus allowing breakaway capabilities when the coupler is unintentionally left coupled. It is mounted in a clamp fixture that is designed to be fixed-mounted to the structure and when pulled apart in line with the coupler, the PPC Series coupler will breakaway. It is recommended to use the APM series nipple in conjunction with this series for mobile applications.

## Flat Face: Push Pull

| BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION           |
|-----------|-----------|-------------|------------|----------------------------|
| 3/8       | 1/2       | SAE         | PPC0608FO  | PUSH PULL FF 3/8 X 1/2 SAE |
| 1/2       | 1/2       | NPT         | PPC0808FP  | PUSH PULL FF 1/2 X 1/2 NPT |
| 1/2       | 3/4       | SAE         | PPC0812FO  | PUSH PULL FF 1/2 X 3/4 SAE |
| 1/2       | 3/4       | NPT         | PPC0812FP  | PUSH PULL FF 1/2 X 3/4 NPT |
| 5/8       | 3/4       | SAE         | PPC1012FO  | PUSH PULL FF 5/8 X 3/4 SAE |
| 5/8       | 3/4       | NPT         | PPC1012FP  | PUSH PULL FF 5/8 X 3/4 NPT |
| 3/4       | 3/4       | NPT         | PPC1212FP  | PUSH PULL FF 3/4 X 3/4 NPT |
| 3/4       | 1         | NPT         | PPC1216FP  | PUSH PULL FF 3/4 X 1 NPT   |

PPC SERIES CONSISTS OF COUPLER AND CLAMP ASSEMBLY COMPONENTS

### Applications

- Refuse compactor and power units
- Trailer dump connections
- Snow plow application
- Agricultural implements





## Flat Face: 316 Stainless Steel

### Series: FL Series 316 Stainless Steel

**Interchange:** ISO 16028

The FL variation of the FIRG series is the Stucchi solution for high corrosion applications. The resistance to corrosion and excellent fatigue life make this product ideal for applications in the chemical, pharmaceutical, food and offshore industries. The interchangeability of FL series couplings is in accordance with ISO 16028.

#### Overview

The FL couplings are manufactured in stainless steel AISI 316; standard seals are Viton/Fluorocarbon with the option of other seal materials upon request for use with various fluids and operating temperatures. The features of flat face couplings in stainless steel to eliminate leakage during connection/disconnection reduce contamination in the circuit, and offer optimal resistance to corrosion, making the FL series ideal for applications such as: offshore, marine, industrial equipment, chemical, pharmaceutical and food processing.

#### Features & Options

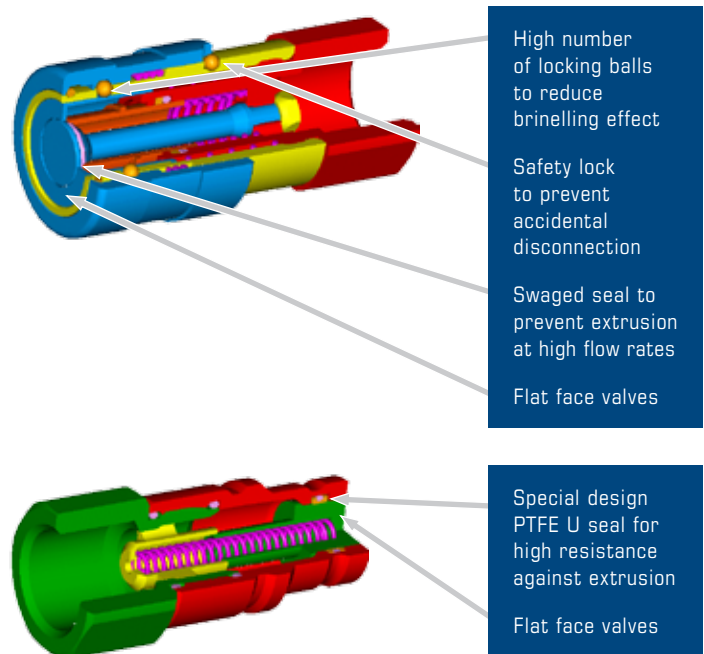
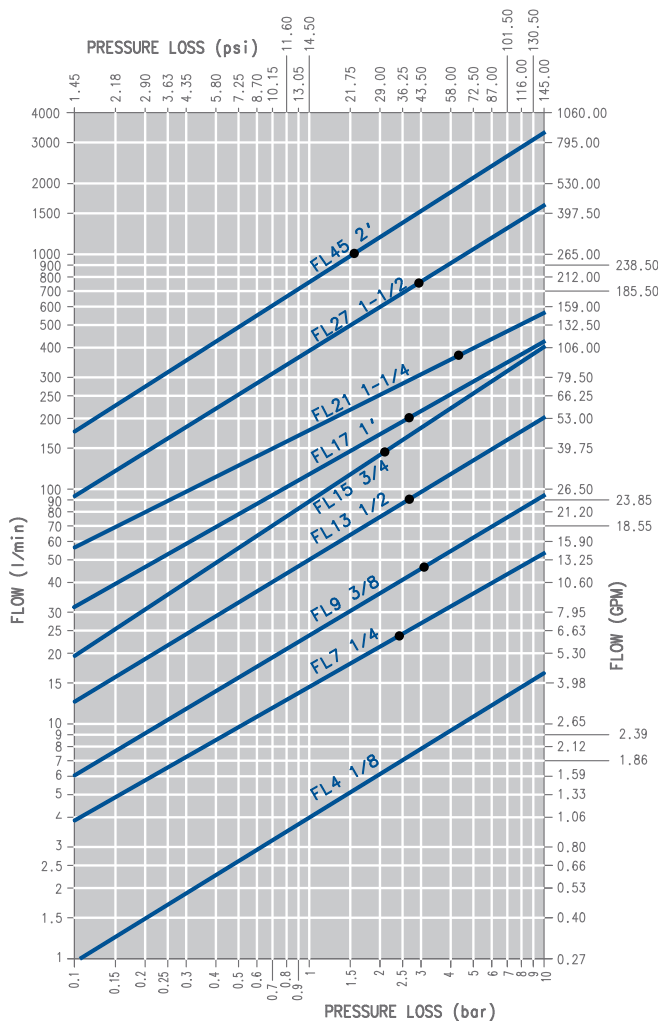
- No air inclusion during connection
- Flat face can easily be cleaned limiting contamination into system
- Non-spill design eliminates leaks
- Minimal pressure drop design



# ISO 16028 Interchange Couplings 316 Stainless Steel

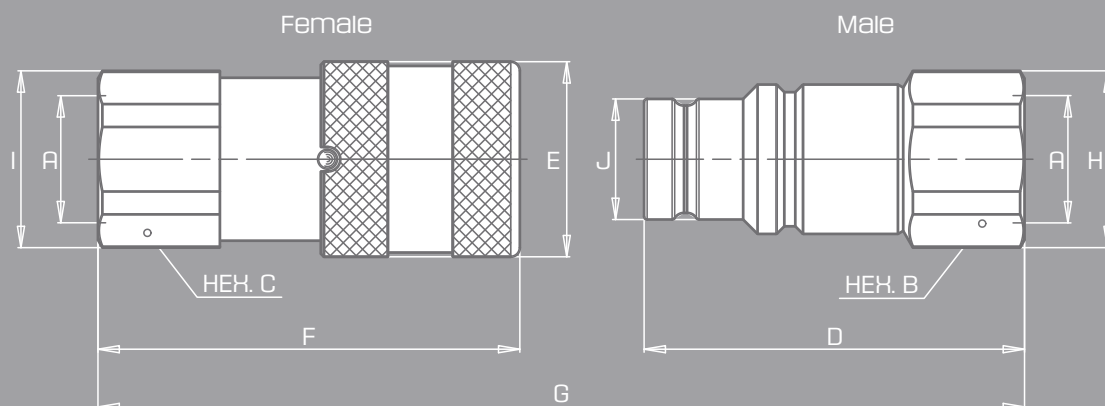
| DESCRIPTION | SIZE  | ISO SIZE | MAX OPERATING PRESSURE |      |      |      |        |      | BURST PRESSURE |       |      |       |        |       | SPILLAGE* |
|-------------|-------|----------|------------------------|------|------|------|--------|------|----------------|-------|------|-------|--------|-------|-----------|
|             |       |          | COUPLED                |      | MALE |      | FEMALE |      | COUPLED        |       | MALE |       | FEMALE |       |           |
|             |       |          | MPa                    | psi  | MPa  | psi  | MPa    | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |           |
| FL4         | 1/8   | -        | 35                     | 5075 | 35   | 5075 | 33     | 4785 | 140            | 20300 | 140  | 20300 | 120    | 17400 | 0.005     |
| FL7         | 1/4   | 6.3      | 35                     | 5075 | 35   | 5075 | 12     | 1740 | 140            | 20300 | 120  | 17400 | 48     | 6960  | 0.006     |
| FL9         | 3/8   | 10.0     | 35                     | 5075 | 35   | 5075 | 15     | 2175 | 140            | 20300 | 120  | 17400 | 60     | 8700  | 0.012     |
| FL13        | 1/2   | 12.5     | 35                     | 5075 | 35   | 5075 | 15     | 2175 | 120            | 17400 | 110  | 15950 | 60     | 8700  | 0.020     |
| FL15        | 5/8   | 16.0     | 35                     | 5075 | 30   | 4350 | 12     | 1740 | 120            | 17400 | 100  | 14500 | 48     | 6960  | 0.026     |
| FL17        | 3/4   | 19.0     | 33                     | 4785 | 28   | 4060 | 12     | 1740 | 100            | 14500 | 80   | 11600 | 48     | 6960  | 0.032     |
| FL21        | 1     | 25.0     | 28                     | 4060 | 28   | 4060 | 12     | 1740 | 90             | 13050 | 80   | 11600 | 48     | 6960  | 0.035     |
| FL27        | 1 1/2 | -        | 23                     | 3335 | 23   | 3335 | 8      | 1160 | 80             | 11600 | 70   | 10150 | 32     | 4640  | 0.050     |
| FL45        | 2     | -        | 15                     | 2175 | 15   | 2175 | 7      | 1015 | 60             | 8700  | 60   | 8700  | 28     | 4060  | 0.100     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE





## Flat Face: 316 Stainless Steel Series Size Diagram



| DESCRIPTION | BODY SIZE | A     | UNIT | B    | C    | D     | E     | F     | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-------|------|------|------|-------|-------|-------|-------|------|------|------|------|--------|--------|
|             |           |       |      |      |      |       |       |       |       |      |      |      |      | MALE   | FEMALE |
| FL4 1/8     | 1/8       | 1/8   | mm   | 17.0 | 19.0 | 36.3  | 20.0  | 40.0  | 68.4  | 18.5 | 20.5 | 11.6 | Kg   | 0.037  | 0.074  |
|             |           |       | inch | 0.67 | 0.75 | 1.43  | 0.79  | 1.57  | 2.69  | 0.73 | 0.81 | 0.46 | lb   | 0.08   | 0.16   |
| FL7 1/4     | 1/4       | 1/4   | mm   | 22.0 | 22.0 | 49.4  | 28.0  | 48.3  | 86.7  | 23.8 | 23.8 | 16.1 | Kg   | 0.098  | 0.142  |
|             |           |       | inch | 0.87 | 0.87 | 1.94  | 1.10  | 1.90  | 3.41  | 0.94 | 0.94 | 0.63 | lb   | 0.22   | 0.31   |
| FL9 3/8     | 3/8       | 3/8   | mm   | 24.0 | 27.0 | 59.9  | 32.0  | 64.2  | 108.6 | 26.0 | 29.0 | 19.7 | Kg   | 0.124  | 0.245  |
|             |           |       | inch | 0.94 | 1.06 | 2.36  | 1.26  | 2.53  | 4.28  | 1.02 | 1.14 | 0.78 | lb   | 0.27   | 0.54   |
| FL9 1/2     | 3/8       | 1/2   | mm   | 27.0 | 27.0 | 62.4  | 32.0  | 69.2  | 116.1 | 29.0 | 29.0 | 19.7 | Kg   | 0.120  | 0.242  |
|             |           |       | inch | 1.06 | 1.06 | 2.46  | 1.26  | 2.72  | 4.57  | 1.14 | 1.14 | 0.78 | lb   | 0.26   | 0.53   |
| FL13 1/2    | 1/2       | 1/2   | mm   | 32.0 | 32.0 | 70.5  | 38.0  | 73.8  | 127.0 | 33.8 | 33.8 | 24.5 | Kg   | 0.259  | 0.378  |
|             |           |       | inch | 1.26 | 1.26 | 2.78  | 1.50  | 2.91  | 5.00  | 1.33 | 1.33 | 0.96 | lb   | 0.57   | 0.83   |
| FL13 3/4    | 1/2       | 3/4   | mm   | 36.0 | 36.0 | 70.5  | 38.0  | 80.8  | 134.0 | 38.5 | 38.5 | 24.5 | Kg   | 0.255  | 0.375  |
|             |           |       | inch | 1.42 | 1.42 | 2.78  | 1.50  | 3.18  | 5.28  | 1.52 | 1.52 | 0.96 | lb   | 0.56   | 0.83   |
| FL15 3/4    | 5/8       | 3/4   | mm   | 36.0 | 36.0 | 70.5  | 42.0  | 80.9  | 133.8 | 38.5 | 38.5 | 27.0 | Kg   | 0.282  | 0.492  |
|             |           |       | inch | 1.42 | 1.42 | 2.78  | 1.65  | 3.19  | 5.27  | 1.52 | 1.52 | 1.06 | lb   | 0.62   | 1.08   |
| FL17 1      | 3/4       | 1     | mm   | 46.0 | 46.0 | 82.2  | 48.0  | 92.9  | 153.3 | 49.5 | 49.5 | 30.0 | Kg   | 0.432  | 0.795  |
|             |           |       | inch | 1.81 | 1.81 | 3.24  | 1.89  | 3.66  | 6.04  | 1.95 | 1.95 | 1.18 | lb   | 0.95   | 1.75   |
| FL21 1 1/4  | 1         | 1 1/4 | mm   | 55.0 | 55.0 | 90.0  | 55.0  | 106.2 | 173.0 | 59.8 | 59.8 | 36.0 | Kg   | 0.672  | 1.226  |
|             |           |       | inch | 2.17 | 2.17 | 3.54  | 2.17  | 4.18  | 6.81  | 2.35 | 2.35 | 1.42 | lb   | 1.48   | 2.70   |
| FL27 1 1/2  | 1 1/2     | 1 1/2 | mm   | 70.0 | 65.0 | 111.0 | 80.0  | 132.4 | 214.8 | 76.0 | 72.0 | 57.0 | Kg   | 1.890  | 2.908  |
|             |           |       | inch | 2.76 | 2.56 | 4.37  | 3.15  | 5.21  | 8.46  | 2.99 | 2.83 | 2.24 | lb   | 4.17   | 6.41   |
| FL45 2      | 2         | 2     | mm   | 75.0 | 80.0 | 123.8 | 100.0 | 156.6 | 241.5 | 83.5 | 88.5 | 73.0 | Kg   | 2.290  | 5.230  |
|             |           |       | inch | 2.95 | 3.15 | 4.87  | 3.94  | 6.17  | 9.51  | 3.29 | 3.48 | 2.87 | lb   | 5.05   | 11.53  |

# ISO 16028 Interchange Couplings

## 316 Stainless Steel



COUPLER



NIPPLE

### FL 316 NPT, SAE Thread\_Stainless Steel | ISO 16028

| PART          | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION  |
|---------------|-----------|-----------|-------------|------------|-------------------|
| FL NPT THREAD |           |           |             |            |                   |
| COUPLER       | 1/8       | 1/8       | NPT         | 802401118  | F. FL4 1/8 NPT    |
| NIPPLE        | 1/8       | 1/8       | NPT         | 802401119  | M. FL4 1/8 NPT    |
| COUPLER       | 1/4       | 1/4       | NPT         | 802401100  | F. FL7 1/4 NPT    |
| NIPPLE        | 1/4       | 1/4       | NPT         | 802401101  | M. FL7 1/4 NPT    |
| COUPLER       | 3/8       | 3/8       | NPT         | 802401102  | F. FL9 3/8 NPT    |
| NIPPLE        | 3/8       | 3/8       | NPT         | 802401103  | M. FL9 3/8 NPT    |
| COUPLER       | 3/8       | 1/2       | NPT         | 802401104  | F. FL9 1/2 NPT    |
| NIPPLE        | 3/8       | 1/2       | NPT         | 802401105  | M. FL9 1/2 NPT    |
| COUPLER       | 1/2       | 1/2       | NPT         | 802401106  | F. FL13 1/2 NPT   |
| NIPPLE        | 1/2       | 1/2       | NPT         | 802401107  | M. FL13 1/2 NPT   |
| COUPLER       | 1/2       | 3/4       | NPT         | 802401108  | F. FL13 3/4 NPT   |
| NIPPLE        | 1/2       | 3/4       | NPT         | 802401109  | M. FL13 3/4 NPT   |
| COUPLER       | 5/8       | 3/4       | NPT         | 802401110  | F. FL15 3/4 NPT   |
| NIPPLE        | 5/8       | 3/4       | NPT         | 802401111  | M. FL15 3/4 NPT   |
| COUPLER       | 3/4       | 1         | NPT         | 802401112  | F. FL17 1 NPT     |
| NIPPLE        | 3/4       | 1         | NPT         | 802401113  | M. FL17 1 NPT     |
| COUPLER       | 1         | 1 1/4     | NPT         | 802401114  | F. FL21 1 1/4 NPT |
| NIPPLE        | 1         | 1 1/4     | NPT         | 802401115  | M. FL21 1 1/4 NPT |
| COUPLER       | 1 1/2     | 1 1/2     | NPT         | 802401116  | F. FL27 1 1/2 NPT |
| NIPPLE        | 1 1/2     | 1 1/2     | NPT         | 802401117  | M. FL27 1 1/2 NPT |
| COUPLER       | 2         | 2         | NPT         | 802401120  | F. FL45 2 NPT     |
| NIPPLE        | 2         | 2         | NPT         | 802401121  | M. FL45 2 NPT     |
| FL SAE THREAD |           |           |             |            |                   |
| COUPLER       | 1/8       | 3/16      | SAE         | 802404101  | F. FL4 3/16 SAE   |
| NIPPLE        | 1/8       | 3/16      | SAE         | 802404101  | M. FL4 3/16 SAE   |
| COUPLER       | 1/4       | 3/8       | SAE         | 802404102  | F. FL7 3/8 SAE    |
| NIPPLE        | 1/4       | 3/8       | SAE         | 802404103  | M. FL7 3/8 SAE    |
| COUPLER       | 3/8       | 1/2       | SAE         | 802404104  | F. FL9 1/2 SAE    |
| NIPPLE        | 3/8       | 1/2       | SAE         | 802404105  | M. FL9 1/2 SAE    |
| COUPLER       | 3/8       | 5/8       | SAE         | 802404106  | F. FL9 5/8 SAE    |
| NIPPLE        | 3/8       | 5/8       | SAE         | 802404107  | M. FL9 5/8 SAE    |
| COUPLER       | 1/2       | 5/8       | SAE         | 802404108  | F. FL13 5/8 SAE   |
| NIPPLE        | 1/2       | 5/8       | SAE         | 802404109  | M. FL13 5/8 SAE   |
| COUPLER       | 1/2       | 1/2       | SAE         | 802404110  | F. FL13 1/2 SAE   |
| NIPPLE        | 1/2       | 1/2       | SAE         | 802404111  | M. FL13 1/2 SAE   |
| COUPLER       | 1/2       | 3/4       | SAE         | 802404112  | F. FL13 3/4 SAE   |
| NIPPLE        | 1/2       | 3/4       | SAE         | 802404113  | M. FL13 3/4 SAE   |
| COUPLER       | 5/8       | 3/4       | SAE         | 802404114  | F. FL15 3/4 SAE   |
| NIPPLE        | 5/8       | 3/4       | SAE         | 802404115  | M. FL15 3/4 SAE   |
| COUPLER       | 3/4       | 1         | SAE         | 802404116  | F. FL17 1 SAE     |
| NIPPLE        | 3/4       | 1         | SAE         | 802404117  | M. FL17 1 SAE     |
| COUPLER       | 1         | 1 1/4     | SAE         | 802404118  | F. FL21 1 1/4 SAE |
| NIPPLE        | 1         | 1 1/4     | SAE         | 802404119  | M. FL21 1 1/4 SAE |
| COUPLER       | 1 1/2     | 1 1/2     | SAE         | 802404120  | F. FL27 1 1/2 SAE |
| NIPPLE        | 1 1/2     | 1 1/2     | SAE         | 802404121  | M. FL27 1 1/2 SAE |
| COUPLER       | 2         | 2         | SAE         | 802404122  | F. FL45 200 SAE   |
| NIPPLE        | 2         | 2         | SAE         | 802404123  | M. FL45 200 SAE   |



## Flat Face: QPQ Plating

### Series: FIRG Q

**Interchange:** ISO 16028

Q variation of the FIRG series is the integration of the QPQ plating technology combined with a coupler constructed of stainless internal parts and carbon steel external parts of the flat face quick couplings. In relatively corrosive, alkaline environments they are an excellent alternative to the more expensive stainless steel quick couplings and demonstrate a much higher operational pressure performance. The interchangeability of FIRG Q series couplings is in accordance with ISO 16028.

- Material: high resistance carbon steel treated with QPQ
- Valve parts in stainless steel
- Springs in AISI 302 SS
- Locking balls in AISI 420
- Seals: Nitrile, EPDM, Viton, etc.

### Overview

The FIRG Q flat face couplings series is the solution for mildly corrosive environments and/or for relatively corrosive fluid transfer (i.e. sweet water, water and glycol etc). The internal valve material is stainless steel AISI303 and can be supplied with a variety of seals for fluid compatibility and operating temperature requirements. The combined features of FIRG Q series are ideal for several applications, mainly in the industrial field.

### Applications

FIRG Q series are suitable for low or medium corrosive fluids. steel mills, tire manufacturing, state or municipal right-of-way spraying.

### Features & Options

- Couplings: internal stainless steel parts, external carbon with QPQ plating
- Seals: Nitrile with Teflon anti-extrusion ring. Viton, Kalrez, EPDM upon request
- Ports: NPT, SAE





# ISO 16028 Interchange Couplings Flat Face with QPQ Plating

## Data for NBR, Viton, EPDM Seals

| DESCRIPTION | SIZE  | MAX. OPERATING<br>PRESSURE COUPLED |      | BURST PRESSURE |       |      |       |        |      | SPILLAGE * |
|-------------|-------|------------------------------------|------|----------------|-------|------|-------|--------|------|------------|
|             |       |                                    |      | COUPLED        |       | MALE |       | FEMALE |      |            |
|             |       | MPa                                | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi  |            |
| FIRG14Q     | 1/4   | 30                                 | 4350 | 120            | 17400 | 120  | 17400 | 48     | 6960 | 0.006      |
| FIRG38Q-12Q | 3/8   | 30                                 | 4350 | 120            | 17400 | 120  | 17400 | 60     | 8700 | 0.012      |
| FIRG12A-34Q | 1/2   | 25                                 | 3625 | 100            | 14500 | 100  | 14500 | 48     | 6960 | 0.020      |
| FIRG34BQ    | 5/8   | 25                                 | 3625 | 100            | 14500 | 100  | 14500 | 48     | 6960 | 0.026      |
| FIRG100Q    | 3/4   | 25                                 | 3625 | 100            | 14500 | 90   | 13050 | 40     | 5800 | 0.032      |
| FIRG114Q    | 1     | 25                                 | 3625 | 100            | 14500 | 90   | 13050 | 40     | 5800 | 0.035      |
| FIRG112Q    | 1 1/2 | 20                                 | 2900 | 60             | 8700  | 60   | 8700  | 32     | 4640 | 0.050      |
| FIRG200Q    | 2     | 20                                 | 2900 | 60             | 8700  | 60   | 8700  | 32     | 4640 | 0.100      |

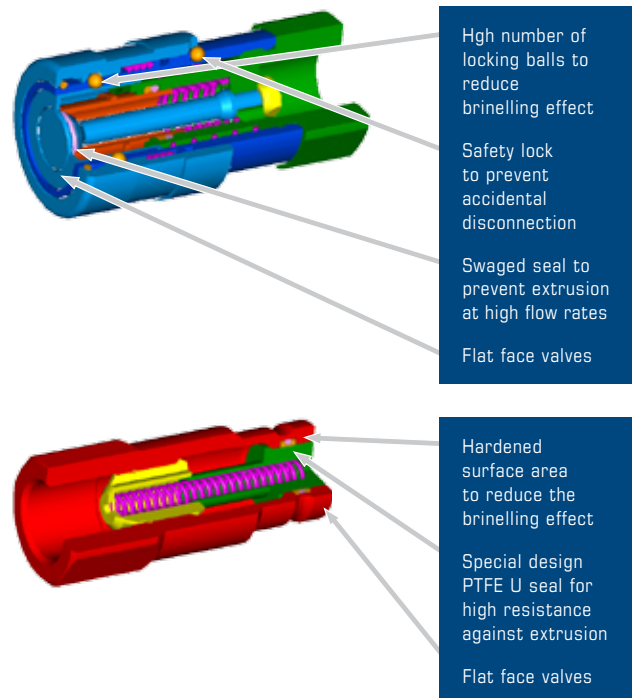
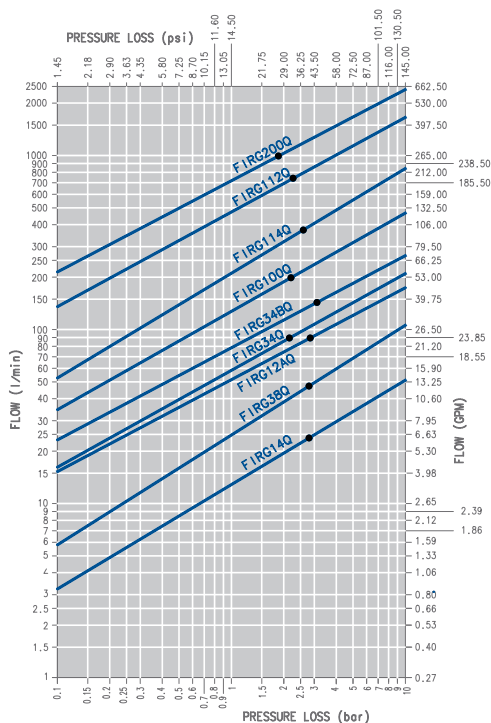
\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE

## Data for FIRG Q w/Kalrez Seals High Temp Applications

| DESCRIPTION  | SIZE  | MAX. OPERATING<br>PRESSURE COUPLED |     | BURST PRESSURE |       |      |       |        |      | SPILLAGE* |
|--------------|-------|------------------------------------|-----|----------------|-------|------|-------|--------|------|-----------|
|              |       |                                    |     | COUPLED        |       | MALE |       | FEMALE |      |           |
|              |       | MPa                                | psi | MPa            | psi   | MPa  | psi   | MPa    | psi  |           |
| FIRG12A-34QK | 1/2   | 5                                  | 725 | 100            | 14500 | 100  | 14500 | 48     | 6960 | 0.020     |
| FIRG34BQK    | 5/8   | 5                                  | 725 | 100            | 14500 | 100  | 14500 | 40     | 5800 | 0.026     |
| FIRG100QK    | 3/4   | 5                                  | 725 | 100            | 14500 | 90   | 13050 | 60     | 8700 | 0.032     |
| FIRG114QK    | 1     | 5                                  | 725 | 100            | 14500 | 90   | 13050 | 60     | 8700 | 0.035     |
| FIRG112QK    | 1 1/2 | 5                                  | 725 | 40             | 5800  | 40   | 5800  | 32     | 4640 | 0.050     |
| FIRG200QK    | 2     | 5                                  | 725 | 40             | 5800  | 40   | 5800  | 32     | 4640 | 0.100     |

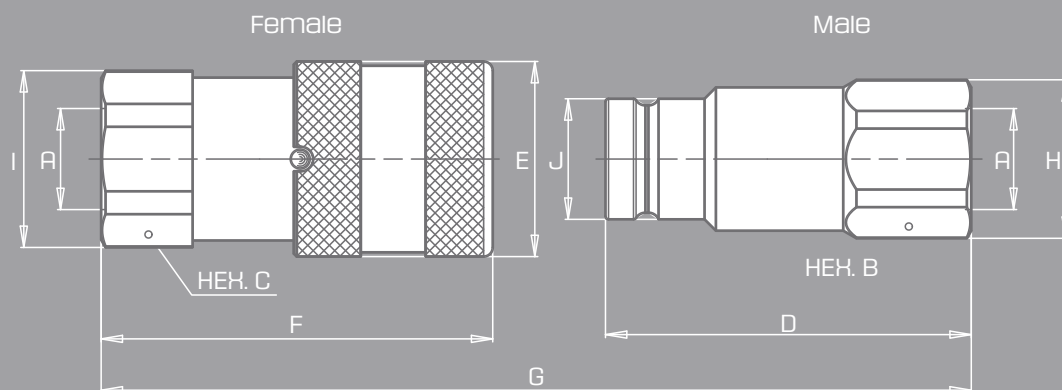
\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE

KALREZ SEALS: FROM -25°C TO 300°C (FROM -13 °F TO 572 °F).





## Flat Face: QPQ Plating Series Size Diagram



| DESCRIPTION | BODY SIZE | A     | UNIT | B    | C    | D     | E     | F     | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-------|------|------|------|-------|-------|-------|-------|------|------|------|------|--------|--------|
|             |           |       |      |      |      |       |       |       |       |      |      |      |      | MALE   | FEMALE |
| FIRG14Q     | 1/4       | 1/4   | mm   | 22.0 | 22.0 | 47.9  | 28.0  | 48.1  | 85.2  | 23.8 | 24.0 | 16.1 | Kg   | 0.085  | 0.135  |
|             |           |       | inch | 0.87 | 0.87 | 1.89  | 1.10  | 1.89  | 3.35  | 0.94 | 0.94 | 0.63 | lb   | 0.19   | 0.30   |
| FIRG38Q     | 3/8       | 3/8   | mm   | 24.0 | 27.0 | 60.0  | 32.0  | 64.2  | 108.7 | 26.0 | 29.0 | 19.7 | Kg   | 0.120  | 0.240  |
|             |           |       | inch | 0.94 | 1.06 | 2.36  | 1.26  | 2.53  | 4.28  | 1.02 | 1.14 | 0.78 | lb   | 0.26   | 0.53   |
| FIRG12Q     | 3/8       | 1/2   | mm   | 27.0 | 27.0 | 62.5  | 32.0  | 69.2  | 116.2 | 29.0 | 29.0 | 19.7 | Kg   | 0.130  | 0.236  |
|             |           |       | inch | 1.06 | 1.06 | 2.46  | 1.26  | 2.72  | 4.57  | 1.14 | 1.14 | 0.78 | lb   | 0.29   | 0.52   |
| FIRG12AQ    | 1/2       | 1/2   | mm   | 32.0 | 32.0 | 68.0  | 38.0  | 73.8  | 124.5 | 33.8 | 33.8 | 24.5 | Kg   | 0.239  | 0.384  |
|             |           |       | inch | 1.26 | 1.26 | 2.68  | 1.50  | 2.91  | 4.90  | 1.33 | 1.33 | 0.96 | lb   | 0.53   | 0.85   |
| FIRG34Q     | 1/2       | 3/4   | mm   | 36.0 | 36.0 | 70.5  | 38.0  | 80.8  | 134.0 | 38.5 | 38.5 | 24.5 | Kg   | 0.227  | 0.430  |
|             |           |       | inch | 1.42 | 1.42 | 2.78  | 1.50  | 3.18  | 5.28  | 1.52 | 1.52 | 0.96 | lb   | 0.50   | 0.95   |
| FIRG34BQ    | 5/8       | 3/4   | mm   | 36.0 | 36.0 | 70.5  | 42.0  | 78.5  | 131.4 | 38.5 | 38.5 | 27.0 | Kg   | 0.268  | 0.473  |
|             |           |       | inch | 1.42 | 1.42 | 2.78  | 1.65  | 3.09  | 5.17  | 1.52 | 1.52 | 1.06 | lb   | 0.59   | 1.04   |
| FIRG100Q    | 3/4       | 1     | mm   | 45.0 | 45.0 | 82.3  | 48.0  | 93.2  | 153.5 | 47.8 | 47.8 | 30.0 | Kg   | 0.406  | 0.765  |
|             |           |       | inch | 1.77 | 1.77 | 3.24  | 1.89  | 3.67  | 6.04  | 1.88 | 1.88 | 1.18 | lb   | 0.90   | 1.69   |
| FIRG114Q    | 1         | 1 1/4 | mm   | 55.0 | 55.0 | 89.8  | 55.0  | 106.0 | 172.8 | 59.8 | 59.8 | 36.0 | Kg   | 0.645  | 1.240  |
|             |           |       | inch | 2.17 | 2.17 | 3.54  | 2.17  | 4.17  | 6.80  | 2.35 | 2.35 | 1.42 | lb   | 1.42   | 2.73   |
| FIRG112Q    | 1 1/2     | 1 1/2 | mm   | 70.0 | 65.0 | 111.0 | 80.0  | 132.4 | 214.8 | 76.0 | 72.0 | 57.0 | Kg   | 1.865  | 2.823  |
|             |           |       | inch | 2.76 | 2.56 | 4.37  | 3.15  | 5.21  | 8.46  | 2.99 | 2.83 | 2.24 | lb   | 4.11   | 6.22   |
| FIRG200Q    | 2         | 2     | mm   | 75.0 | 80.0 | 123.8 | 100.0 | 156.6 | 241.5 | 83.5 | 88.5 | 73.0 | Kg   | 2.259  | 5.100  |
|             |           |       | inch | 2.95 | 3.15 | 4.87  | 3.94  | 6.17  | 9.51  | 3.29 | 3.48 | 2.87 | lb   | 4.98   | 11.24  |

# ISO 16028 Interchange Couplings Flat Face with QPQ Plating



COUPLER



NIPPLE

## FIRG Q NPT Thread\_Flat Face with QPQ Plating | ISO 16028

| PART              | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION   |
|-------------------|-----------|-----------|-------------|------------|--------------------|
| FIRG Q NPT THREAD |           |           |             |            |                    |
| COUPLER           | 1/4       | 1/4       | NPT         | 800901000  | F. FIRG 14 QN NPT  |
| NIPPLE            | 1/4       | 1/4       | NPT         | 800901001  | M. FIRG 14 QN NPT  |
| COUPLER           | 3/8       | 3/8       | NPT         | 800901002  | F. FIRG 38 QN NPT  |
| NIPPLE            | 3/8       | 3/8       | NPT         | 800901003  | M. FIRG 38 QN NPT  |
| COUPLER           | 3/8       | 1/2       | NPT         | 800901004  | F. FIRG 12 QN NPT  |
| NIPPLE            | 3/8       | 1/2       | NPT         | 800901005  | M. FIRG 12 QN NPT  |
| COUPLER           | 1/2       | 1/2       | NPT         | 800901006  | F. FIRG 12A QN NPT |
| NIPPLE            | 1/2       | 1/2       | NPT         | 800901007  | M. FIRG 12A QN NPT |
| COUPLER           | 1/2       | 3/4       | NPT         | 800901008  | F. FIRG 34 QN NPT  |
| NIPPLE            | 1/2       | 3/4       | NPT         | 800901009  | M. FIRG 34 QN NPT  |
| COUPLER           | 5/8       | 3/4       | NPT         | 800901010  | F. FIRG 34B QN NPT |
| NIPPLE            | 5/8       | 3/4       | NPT         | 800901011  | M. FIRG 34B QN NPT |
| COUPLER           | 3/4       | 1         | NPT         | 800901012  | F. FIRG 100 QN NPT |
| NIPPLE            | 3/4       | 1         | NPT         | 800901013  | M. FIRG 100 QN NPT |
| COUPLER           | 1         | 1 1/4     | NPT         | 800901014  | F. FIRG 114 QN NPT |
| NIPPLE            | 1         | 1 1/4     | NPT         | 800901015  | M. FIRG 114 QN NPT |
| COUPLER           | 1 1/2     | 1 1/2     | NPT         | 800901016  | F. FIRG 112 QN NPT |
| NIPPLE            | 1 1/2     | 1 1/2     | NPT         | 800901017  | M. FIRG 112 QN NPT |
| COUPLER           | 2         | 2         | NPT         | 800901018  | F. FIRG 200 QN NPT |
| NIPPLE            | 2         | 2         | NPT         | 800901019  | M. FIRG 200 QN NPT |

# ISO 16028 Interchange Couplings Flat Face with Special Z Plating



## Flat Face: Special Z Plating

### Series: "A"

**Interchange:** ISO 16028

"A" series couplings are in accordance with ISO 16028. The Z version is an integration of plating technology that exceeds the ISO salt spray test. Standard zinc plating is guaranteed for 72 hours before red spotting. The Z version plating is designed to exceed 400 hours before the appearance of red spotting in the same ISO salt spray test.

- Seals: Nitrile & Teflon anti-extrusion
- Nipple: hardened steel reduces brinnelling
- 12 to 20 balls to increase the male bearing points & decrease the brinelling effect
- Modular structure for multiple port option
- Lock system stops unwanted disconnect
- Exceeds Impulse test of ISOA-7241 test

### Overview

"A" series or Premier Z series offers higher pressure ratings, superior flow ratings, lower pressure drop compared to competitors' products. Specialized plating for high corrosion resistance designed to exceed 400 hours in the ISO salt spray test before the appearance of red spots.

### Applications

Flat face couplers are specifically designed for applications needing no-leak performance. The mating faces are easily cleaned before connecting, making it the ideal solution for limiting contamination in a hydraulic circuit. The Z version design allows for applications involving medium to high corrosion environments.



# ISO 16028 Interchange Couplings Flat Face with Special Z Plating

## Series A NPT Thread Flat Face with Iron Zinc Plating | ISO 16028

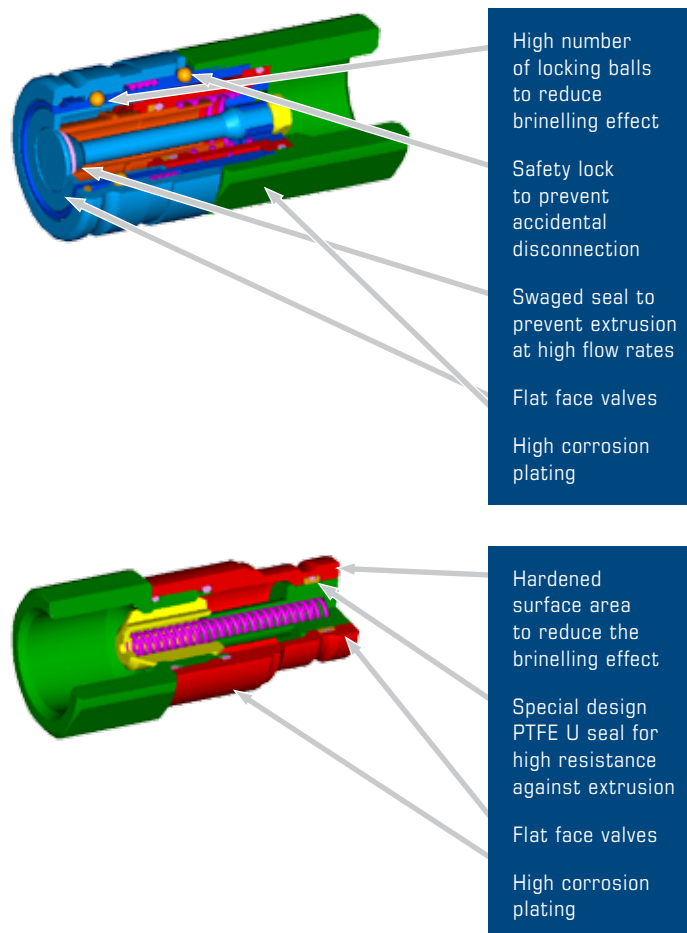
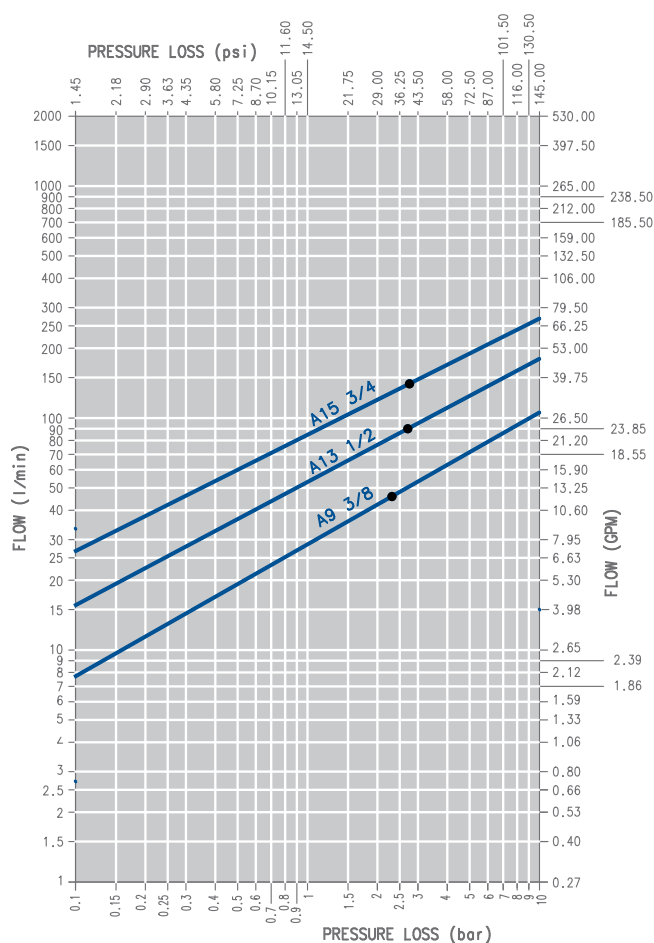


COUPLER



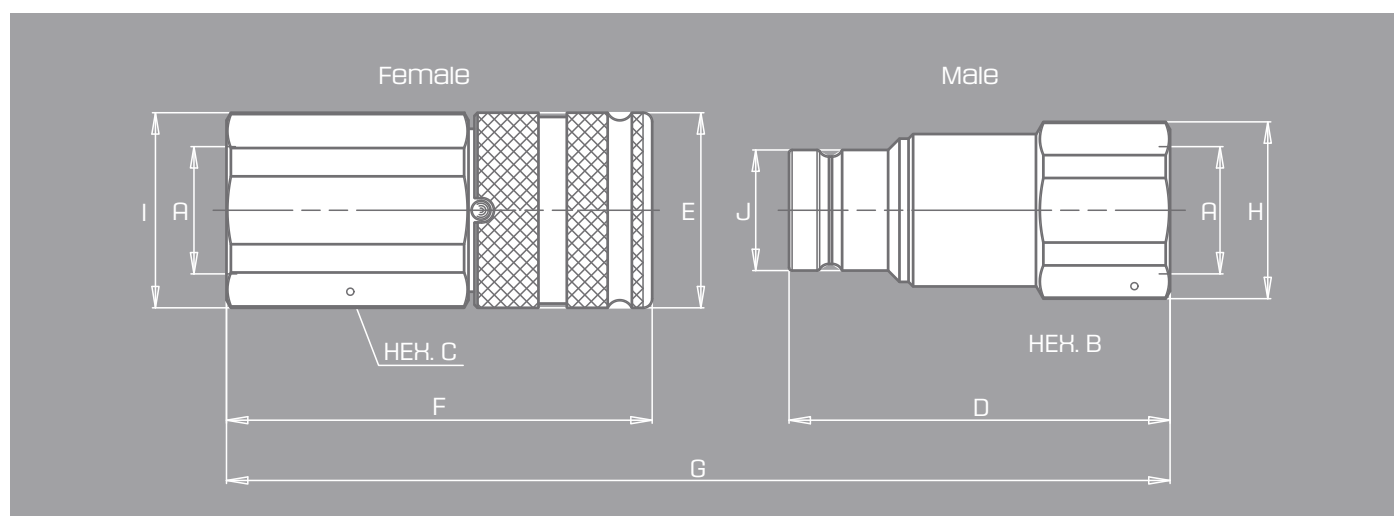
NIPPLE

| PART                | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|---------------------|-----------|-----------|-------------|------------|------------------|
| SERIES A NPT THREAD |           |           |             |            |                  |
| COUPLER             | 3/8       | 3/8       | NPT         | 807601006  | F. A9ZF 3/8 NPT  |
| NIPPLE              | 3/8       | 3/8       | NPT         | 807601007  | M. A9ZF 3/8 NPT  |
| COUPLER             | 1/2       | 1/2       | NPT         | 807601008  | F. A13ZF 1/2 NPT |
| NIPPLE              | 1/2       | 1/2       | NPT         | 807601009  | M. A13ZF 1/2 NPT |
| COUPLER             | 1/2       | 3/4       | NPT         | 807601010  | F. A13ZF 3/4 NPT |
| NIPPLE              | 1/2       | 3/4       | NPT         | 807601011  | M. A13ZF 3/4 NPT |
| COUPLER             | 5/8       | 3/4       | NPT         | 807601012  | F. A15ZF 3/4 NPT |
| NIPPLE              | 5/8       | 3/4       | NPT         | 807601013  | M. A15ZF 3/4 NPT |





## Flat Face: Special Z Plating Series Size Diagram



| DESCRIPTION | BODY SIZE | A   | UNIT | B    | C    | D    | E    | F    | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-----|------|------|------|------|------|------|-------|------|------|------|------|--------|--------|
|             |           |     |      |      |      |      |      |      |       |      |      |      |      | MALE   | FEMALE |
| A9          | 3/8       | 3/8 | mm   | 27.0 | 30.0 | 60.0 | 32.0 | 64.8 | 108.8 | 29.0 | 32.0 | 19.7 | Kg   | 0.150  | 0.273  |
|             |           |     | inch | 1.06 | 1.18 | 2.36 | 1.26 | 2.55 | 4.28  | 1.14 | 1.26 | 0.78 | lb   | 0.33   | 0.60   |
| A9          | 3/8       | 1/2 | mm   | 27.0 | 30.0 | 62.5 | 32.0 | 69.8 | 116.3 | 29.0 | 32.0 | 19.7 | Kg   | 0.138  | 0.278  |
|             |           |     | inch | 1.06 | 1.18 | 2.46 | 1.26 | 2.75 | 4.58  | 1.14 | 1.26 | 0.78 | lb   | 0.30   | 0.61   |
| A13         | 1/2       | 1/2 | mm   | 36.0 | 36.0 | 68.0 | 38.0 | 76.8 | 127.5 | 40.0 | 40.0 | 24.5 | Kg   | 0.295  | 0.452  |
|             |           |     | inch | 1.42 | 1.42 | 2.68 | 1.50 | 3.02 | 5.02  | 1.57 | 1.57 | 0.96 | lb   | 0.65   | 1.00   |
| A13         | 1/2       | 3/4 | mm   | 36.0 | 36.0 | 70.5 | 38.0 | 83.8 | 137.0 | 40.0 | 40.0 | 24.5 | Kg   | 0.273  | 0.469  |
|             |           |     | inch | 1.42 | 1.42 | 2.78 | 1.50 | 3.30 | 5.39  | 1.57 | 1.57 | 0.96 | lb   | 0.60   | 1.03   |
| A15         | 5/8       | 3/4 | mm   | 36.0 | 41.0 | 73.0 | 42.0 | 84.0 | 139.4 | 38.5 | 44.8 | 27.0 | Kg   | 0.292  | 0.631  |
|             |           |     | inch | 1.42 | 1.61 | 2.87 | 1.65 | 3.31 | 5.49  | 1.52 | 1.76 | 1.06 | lb   | 0.64   | 1.39   |



# Flat Face Coupling 10,000 Working Pressure



## 10,000 Working Pressure

### Series: A-HP

**Interchange:** None Proprietary Coupling

General data: HP is the Stucchi solution to high pressure leak-free applications with a 10,000 psi working pressure.

#### Features Include:

- Auto lock sleeve to eliminate accidental disconnection
- Does not interchange with lower pressure couplings to avoid misuse
- Color coded identification option available upon request (see inset photo)



#### Overview

The Stucchi HP series offers a patented safety system to prevent accidental disconnection. This patented sleeve system automatically rotates the sleeve when connected, engaging the safety lock mechanism. To disconnect: the coupler sleeve must be turned and aligned between the release notch and locking pin. A simple yet highly effective safety system.

#### Applications

- Emergency cutting tools
- Hydraulic wrenches, tools

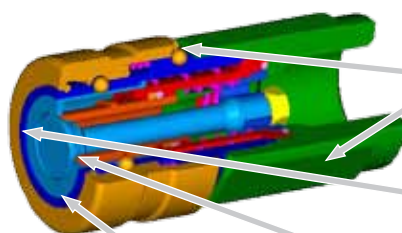
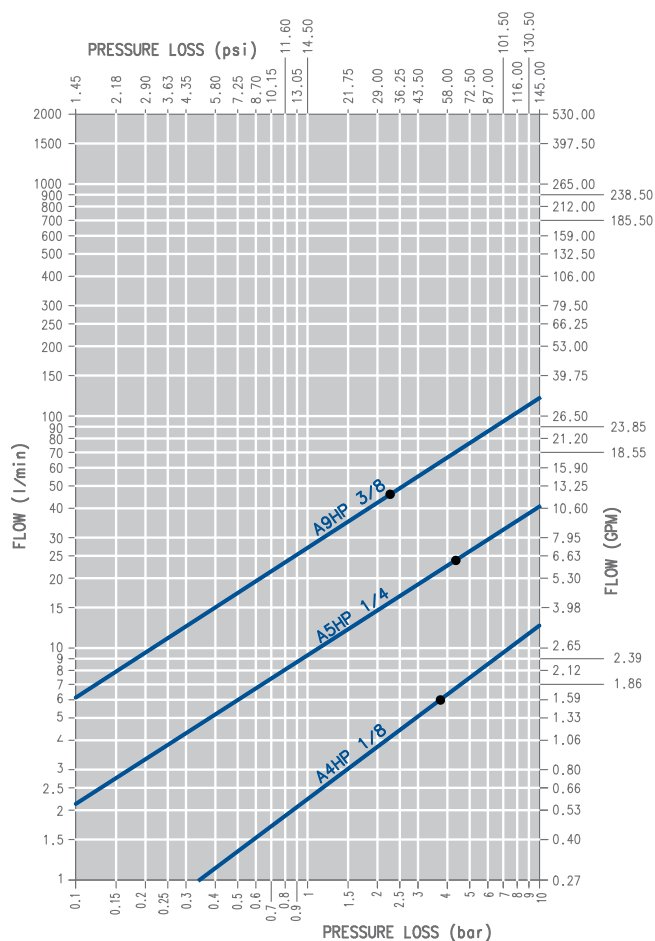
#### Advantages

- Locking sleeve eliminates accidental disconnection
- Low pressure drop
- No air inclusion during connection
- Flat face design limits leakage
- Easy to clean, eliminate contamination of hydraulic circuit
- Bi-directional flow
- Seals: Nitrile o-ring with anti-extrusion rings in specially shaped Teflon (PTFE)



| DESCRIPTION | SIZE | MAX. OPERATING<br>PRESSURE COUPLED |       | BURST PRESSURE |       |      |       |        |       | SPILLAGE* |
|-------------|------|------------------------------------|-------|----------------|-------|------|-------|--------|-------|-----------|
|             |      |                                    |       | COUPLED        |       | MALE |       | FEMALE |       |           |
|             |      | MPa                                | psi   | MPa            | psi   | MPa  | psi   | MPa    | psi   |           |
| A4HP        | 1/8  | 72                                 | 10440 | 160            | 23200 | 160  | 23200 | 160    | 23200 | 0.040     |
| A5HP        | 1/4  | 72                                 | 10440 | 200            | 29000 | 200  | 29000 | 150    | 21750 | 0.020     |
| A9HP        | 3/8  | 72                                 | 10440 | 180            | 26100 | 200  | 29000 | 125    | 18125 | 0.020     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE



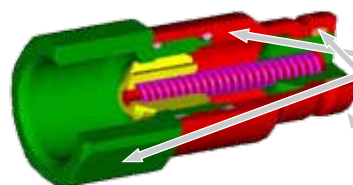
Modular structure

Automatic safety lock to prevent accidental disconnection

Bodies black zinc plated for identification

Metal-to-metal sealing system to avoid potential damage of seal caused by high operating pressure

Flat face valves



Modular structure

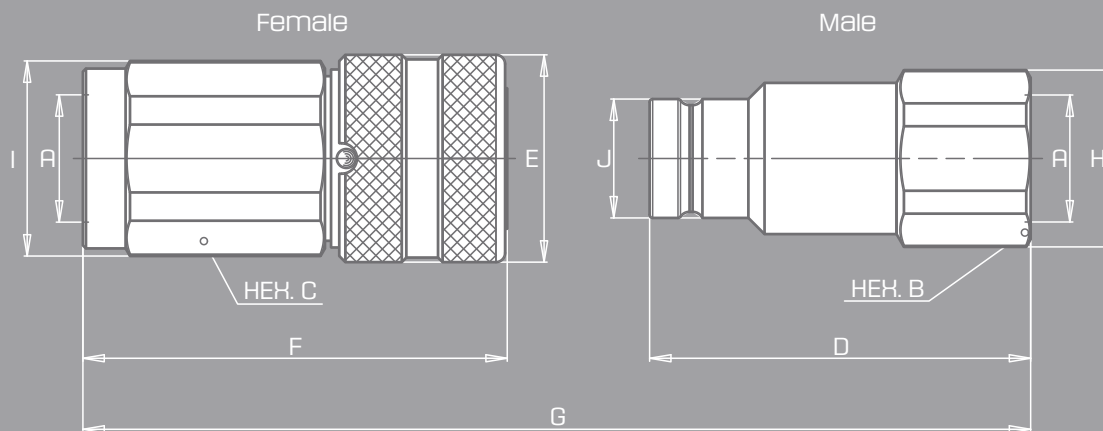
Hardened surface area to reduce the brinelling effect

Special design PTFE U seal for high resistance against extrusion

Flat face valves

# Flat Face Coupling 10,000 Working Pressure

## Flat Face: 10,000 Working Pressure Size Diagram



| DESCRIPTION | BODY SIZE | A   | UNIT | B    | C    | D    | E    | F    | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-----|------|------|------|------|------|------|-------|------|------|------|------|--------|--------|
|             |           |     |      |      |      |      |      |      |       |      |      |      |      | MALE   | FEMALE |
| A4HP        | 1/8       | 1/8 | mm   | 17.0 | 17.0 | 36.2 | 22.0 | 44.0 | 72.3  | 18.5 | 21.8 | 12.0 | Kg   | 0.041  | 0.090  |
|             |           |     | inch | 0.67 | 0.67 | 1.43 | 0.87 | 1.73 | 2.85  | 0.73 | 0.86 | 0.47 | lb   | 0.09   | 0.20   |
| A5HP        | 1/4       | 1/4 | mm   | 22.0 | 22.0 | 47.9 | 29.0 | 58.0 | 94.9  | 23.8 | 29.0 | 16.5 | Kg   | 0.090  | 0.205  |
|             |           |     | inch | 0.87 | 0.87 | 1.89 | 1.14 | 2.28 | 3.74  | 0.94 | 1.14 | 0.65 | lb   | 0.20   | 0.45   |
| A5HP        | 1/4       | 3/8 | mm   | 24.0 | 24.0 | 54.9 | 29.0 | 60.0 | 103.9 | 26.0 | 29.0 | 16.5 | Kg   | 0.107  | 0.209  |
|             |           |     | inch | 0.94 | 0.94 | 2.16 | 1.14 | 2.36 | 4.09  | 1.02 | 1.14 | 0.65 | lb   | 0.24   | 0.46   |
| A9HP        | 3/8       | 3/8 | mm   | 27.0 | 30.0 | 60.0 | 34.0 | 64.6 | 108.8 | 29.0 | 32.0 | 19.5 | Kg   | 0.153  | 0.322  |
|             |           |     | inch | 1.06 | 1.18 | 2.36 | 1.34 | 2.54 | 4.28  | 1.14 | 1.26 | 0.77 | lb   | 0.34   | 0.71   |
| A9HP        | 3/8       | 1/2 | mm   | 27.0 | 30.0 | 62.5 | 34.0 | 69.6 | 116.3 | 29.0 | 32.0 | 19.5 | Kg   | 0.144  | 0.308  |
|             |           |     | inch | 1.06 | 1.18 | 2.46 | 1.34 | 2.74 | 4.58  | 1.14 | 1.26 | 0.77 | lb   | 0.32   | 0.68   |



COUPLER



NIPPLE

### A-HP Female NPT Thread\_ ISO 16028

| PART    | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|---------|-----------|-----------|-------------|------------|------------------|
| COUPLER | 1/8       | 1/8       | FEMALE NPT  | 801601014  | F. A4 HP 1/8 NPT |
| NIPPLE  | 1/8       | 1/8       | FEMALE NPT  | 801601015  | M. A4 HP 1/8 NPT |
| COUPLER | 1/4       | 1/4       | FEMALE NPT  | 801601004  | F. A5 HP 1/4 NPT |
| NIPPLE  | 1/4       | 1/4       | FEMALE NPT  | 801601005  | M. A5 HP 1/4 NPT |
| COUPLER | 1/4       | 3/8       | FEMALE NPT  | 801601008  | F. A5 HP 3/8 NPT |
| NIPPLE  | 1/4       | 3/8       | FEMALE NPT  | 801601009  | M. A5 HP 3/8 NPT |
| COUPLER | 3/8       | 3/8       | FEMALE NPT  | 801601010  | F. A9 HP 3/8 NPT |
| NIPPLE  | 3/8       | 3/8       | FEMALE NPT  | 801601011  | M. A9 HP 3/8 NPT |
| COUPLER | 3/8       | 1/2       | FEMALE NPT  | 801601012  | F. A9 HP 1/2 NPT |
| NIPPLE  | 3/8       | 1/2       | FEMALE NPT  | 801601013  | M. A9 HP 1/2 NPT |

# Connect Under Pressure Threaded Flat Face Coupling



## Flat Face: Threaded Coupling

**Series:** VEP

**Interchange:** None

- High working pressures: 40-60 MPa/5800-8700 psi range based on size
- Thread coupling system eliminates brinelling, premature leakage
- Connect/disconnect under residual pressure up to 25 MPa/3625 psi
- Valve limits fluid movement during connection avoiding damage to other elements of circuit
- Low connection force required

**Fire Tested and Lloyd's Certified\* in compliance with API 16D Test and EUB Directive 36.**

\* Lloyd's document available upon request

### Overview

Stucchi VEP series is the ultimate solution and most popular for hydraulic circuit applications subject to high pressure impulses, and circuits which experience high residual or trapped pressure in a line. The VEP thread-to-connect design eliminates premature wear or brinelling associated with locking ball designs subjected to high impulse pressures. The patented internal valve allows connection and disconnection with high residual pressures. Flat face design avoids loss of hydraulic fluid during connection/disconnection. Flat face design is easy to clean, limiting contamination into the circuit.

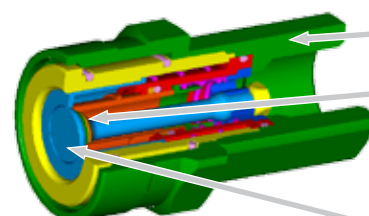
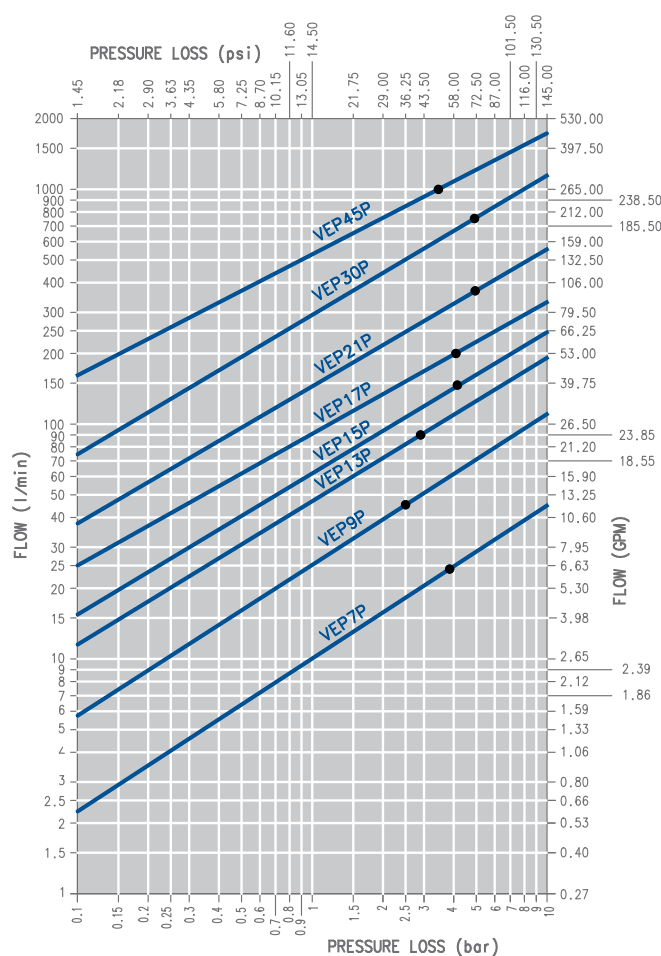
### Applications & Features

- Excavators w/auxiliary line for attachments: thumbs, grapples, hammers, and compactors/hopaks
- Oil Field, well head drives, porta-power
- Cranes, drilling machines, all large equipment needing junction points in circuit
- All construction equipment applications with higher pressure requirements or issues of connecting/disconnecting tool attachments under residual pressure
- Eliminates brinelling, reduces leakage
- Save time changing tools

# Connect Under Pressure Threaded Flat Face Coupling

| DESCRIPTION | SIZE  | MAX. OPERATING<br>PRESSURE COUPLED |      | BURST PRESSURE |       |      |       |        |       | MAX. RESIDUAL<br>PRESSURE DURING<br>CONNECTION |      | SPILLAGE* |
|-------------|-------|------------------------------------|------|----------------|-------|------|-------|--------|-------|------------------------------------------------|------|-----------|
|             |       |                                    |      | COUPLED        |       | MALE |       | FEMALE |       |                                                |      |           |
|             |       | MPa                                | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   | MPa                                            | psi  |           |
| VEP7        | 1/4   | 60                                 | 8700 | 150            | 21750 | 150  | 21750 | 126    | 18270 | 30                                             | 4350 | 0.012     |
| VEP9P       | 3/8   | 55                                 | 7975 | 140            | 20300 | 140  | 20300 | 100    | 14500 | 25                                             | 3625 | 0.040     |
| VEP13P      | 1/2   | 55                                 | 7975 | 140            | 20300 | 140  | 20300 | 100    | 14500 | 25                                             | 3625 | 0.025     |
| VEP15P      | 3/4   | 55                                 | 7975 | 140            | 20300 | 140  | 20300 | 100    | 14500 | 25                                             | 3625 | 0.033     |
| VEP17P      | 1     | 50                                 | 7250 | 125            | 18125 | 125  | 18125 | 100    | 14500 | 25                                             | 3625 | 0.018     |
| VEP21P      | 1 1/4 | 47                                 | 6815 | 120            | 17400 | 120  | 17400 | 80     | 11600 | 25                                             | 3625 | 0.060     |
| VEP30P      | 1 1/2 | 40                                 | 5800 | 110            | 15950 | 110  | 15950 | 80     | 11600 | 25                                             | 3625 | 0.200     |
| VEP45P      | 2     | 35                                 | 5075 | 110            | 15950 | 110  | 15950 | 80     | 11600 | 25                                             | 3625 | 0.350     |

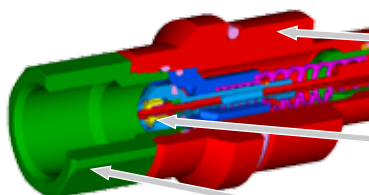
\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE



Modular structure

Special seal to prevent extrusion at high flow rates and during connection with residual pressure

Flat face valves



Screw connection system eliminates premature wear

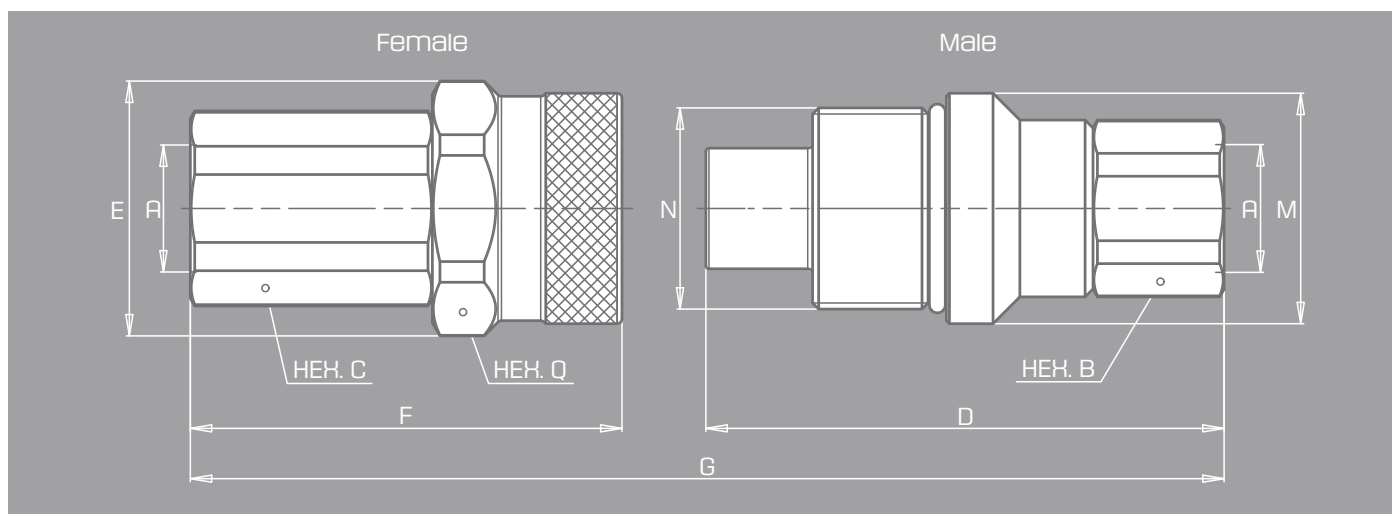
Double valve system to release pressure

Modular structure

Flat face valves



## Flat Face: Connect Under Pressure Size Diagram



| DESCRIPTION | BODY SIZE | A     | UNIT | B    | C    | D     | E     | F     | G     | M     | N      | Q    | UNIT | WEIGHT |        |
|-------------|-----------|-------|------|------|------|-------|-------|-------|-------|-------|--------|------|------|--------|--------|
|             |           |       |      |      |      |       |       |       |       |       |        |      |      | MALE   | FEMALE |
| VEP7        | 1/4       | 1/4   | mm   | 22.0 | 27.0 | 71.0  | 38.8  | 54.1  | 113.3 | 34.8  | M30X2  | 36.0 | Kg   | 0.235  | 0.25   |
|             |           |       | inch | 0.87 | 1.06 | 2.80  | 1.53  | 2.13  | 4.46  | 1.37  |        | 1.42 | lb   | 0.52   | 0.55   |
| VEP9P       | 3/8       | 3/8   | mm   | 27.0 | 30.0 | 82.5  | 41.8  | 65.8  | 131.3 | 37.8  | M33X2  | 38.0 | Kg   | 0.325  | 0.335  |
|             |           |       | inch | 1.06 | 1.18 | 3.25  | 1.65  | 2.59  | 5.17  | 1.49  |        | 1.50 | lb   | 0.72   | 0.74   |
| VEP9P       | 3/8       | 1/2   | mm   | 27.0 | 30.0 | 85.0  | 41.8  | 70.8  | 138.8 | 37.8  | M33X2  | 38.0 | Kg   | 0.320  | 0.345  |
|             |           |       | inch | 1.06 | 1.18 | 3.35  | 1.65  | 2.79  | 5.46  | 1.49  |        | 1.50 | lb   | 0.71   | 0.76   |
| VEP13P      | 1/2       | 1/2   | mm   | 36.0 | 36.0 | 95.0  | 49.8  | 77.8  | 154.6 | 45.8  | M40X3  | 46.0 | Kg   | 0.605  | 0.635  |
|             |           |       | inch | 1.42 | 1.42 | 3.74  | 1.96  | 3.06  | 6.09  | 1.80  |        | 1.81 | lb   | 1.33   | 1.40   |
| VEP13P      | 1/2       | 3/4   | mm   | 36.0 | 36.0 | 97.4  | 49.8  | 84.8  | 164.0 | 45.8  | M40X3  | 46.0 | Kg   | 0.59   | 0.60   |
|             |           |       | inch | 1.42 | 1.42 | 3.83  | 1.96  | 3.34  | 6.46  | 1.80  |        | 1.81 | lb   | 1.30   | 1.32   |
| VEP15P      | 3/4       | 3/4   | mm   | 36.0 | 41.0 | 99.0  | 53.8  | 84.9  | 165.4 | 49.8  | M45X3  | 50.0 | Kg   | 0.69   | 0.765  |
|             |           |       | inch | 1.42 | 1.61 | 3.90  | 2.12  | 3.34  | 6.51  | 1.96  |        | 1.97 | lb   | 1.52   | 1.69   |
| VEP17P      | 1         | 3/4   | mm   | 46.0 | 46.0 | 113.6 | 58.8  | 96.7  | 187.5 | 54.8  | M50X3  | 55.0 | Kg   | 1.065  | 1.168  |
|             |           |       | inch | 1.81 | 1.81 | 4.47  | 2.31  | 3.81  | 7.38  | 2.16  |        | 2.17 | lb   | 2.35   | 2.57   |
| VEP17P      | 1         | 1     | mm   | 46.0 | 46.0 | 113.6 | 58.8  | 99.7  | 190.5 | 54.8  | M50X3  | 55.0 | Kg   | 1.025  | 1.115  |
|             |           |       | inch | 1.81 | 1.81 | 4.47  | 2.31  | 3.93  | 7.50  | 2.16  |        | 2.17 | lb   | 2.26   | 2.46   |
| VEP21P      | 1 1/4     | 1     | mm   | 55.0 | 55.0 | 123.4 | 69.8  | 105.8 | 205.2 | 64.5  | M58X3  | 65.0 | Kg   | 1.540  | 1.780  |
|             |           |       | inch | 2.17 | 2.17 | 4.86  | 2.75  | 4.17  | 8.08  | 2.54  |        | 2.56 | lb   | 3.40   | 3.92   |
| VEP21P      | 1 1/4     | 1 1/4 | mm   | 55.0 | 55.0 | 123.4 | 69.8  | 106.8 | 206.2 | 64.5  | M58X3  | 65.0 | Kg   | 1.465  | 1.700  |
|             |           |       | inch | 2.17 | 2.17 | 4.86  | 2.75  | 4.20  | 8.12  | 2.54  |        | 2.56 | lb   | 3.23   | 3.75   |
| VEP30P      | 1 1/2     | 1 1/4 | mm   | 65.0 | 65.0 | 150.0 | 92.0  | 133.5 | 253.9 | 89.8  | M80X4  | 85.0 | Kg   | 3.245  | 3.910  |
|             |           |       | inch | 2.56 | 2.56 | 5.91  | 3.62  | 5.26  | 10.00 | 3.54  |        | 3.35 | lb   | 7.15   | 8.62   |
| VEP30P      | 1 1/2     | 1 1/2 | mm   | 65.0 | 65.0 | 150.0 | 92.0  | 133.5 | 253.9 | 89.8  | M80X4  | 85.0 | Kg   | 3.18   | 3.84   |
|             |           |       | inch | 2.56 | 2.56 | 5.91  | 3.62  | 5.26  | 10.00 | 3.54  |        | 3.35 | lb   | 7.01   | 8.47   |
| VEP45P      | 2         | 2     | mm   | 90.0 | 90.0 | 218.4 | 200.0 | 224.8 | 383.5 | 145.0 | M130X6 | 0.00 | Kg   | 11.67  | 14.76  |
|             |           |       | inch | 3.54 | 3.54 | 8.60  | 7.87  | 8.85  | 15.10 | 5.71  |        | 0.00 | lb   | 25.73  | 32.54  |



# Connect Under Pressure Threaded Flat Face Coupling



COUPLER



NIPPLE

## VEP-NPT, Flange and SAE Thread\_Flat Face Thread Coupling with High Residual Pressure

| PART                     | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION      |
|--------------------------|-----------|-----------|-------------|------------|-----------------------|
| <b>VEP NPT THREAD</b>    |           |           |             |            |                       |
| COUPLER                  | 1/4       | 1/4       | NPT         | 806501008  | F. VEP7 1/4 NPT       |
| NIPPLE                   | 1/4       | 1/4       | NPT         | 806501009  | M. VEP7 1/4 NPT       |
| COUPLER                  | 3/8       | 3/8       | NPT         | 806501002  | F. VEP9 3/8 NPT       |
| NIPPLE                   | 3/8       | 3/8       | NPT         | 806501003  | M. VEP9 3/8 NPT       |
| COUPLER                  | 3/8       | 1/2       | NPT         | 806501014  | F. VEP9 1/2 NPT       |
| NIPPLE                   | 3/8       | 1/2       | NPT         | 806501015  | M. VEP9 1/2 NPT       |
| COUPLER                  | 1/2       | 1/2       | NPT         | 806501000  | F. VEP13 1/2 NPT      |
| NIPPLE                   | 1/2       | 1/2       | NPT         | 806501001  | M. VEP13 1/2 NPT      |
| COUPLER                  | 1/2       | 3/4       | NPT         | 806501016  | F. VEP13 3/4 NPT      |
| NIPPLE                   | 1/2       | 3/4       | NPT         | 806501017  | M. VEP13 3/4 NPT      |
| COUPLER                  | 3/4       | 3/4       | NPT         | 806501004  | F. VEP15 3/4 NPT      |
| NIPPLE                   | 3/4       | 3/4       | NPT         | 806501005  | M. VEP15 3/4 NPT      |
| COUPLER                  | 1         | 1         | NPT         | 806501006  | F. VEP17 1 NPT        |
| NIPPLE                   | 1         | 1         | NPT         | 806501007  | M. VEP17 1 NPT        |
| COUPLER                  | 1 1/4     | 1 1/4     | NPT         | 806501010  | F. VEP21 1 1/4 NPT    |
| NIPPLE                   | 1 1/4     | 1 1/4     | NPT         | 806501011  | M. VEP21 1 1/4 NPT    |
| COUPLER                  | 1 1/2     | 1 1/2     | NPT         | 806501012  | F. VEP30 1 1/2 NPT    |
| NIPPLE                   | 1 1/2     | 1 1/2     | NPT         | 806501013  | M. VEP30 1 1/2 NPT    |
| COUPLER                  | 2         | 2         | NPT         | 807201018  | F. VEP45 2 NPT        |
| NIPPLE                   | 2         | 2         | NPT         | 807201019  | M. VEP45 2 NPT        |
| <b>VEP SAE THREAD</b>    |           |           |             |            |                       |
| COUPLER                  | 3/8       | 1/2       | SAE         | 806504000  | F. VEP 9 1/2 SAE      |
| NIPPLE                   | 3/8       | 1/2       | SAE         | 806504001  | M. VEP 9 1/2 SAE      |
| COUPLER                  | 1/2       | 3/4       | SAE         | 806504004  | F. VEP 13 3/4 SAE     |
| NIPPLE                   | 1/2       | 3/4       | SAE         | 806504005  | M. VEP 13 3/4 SAE     |
| COUPLER                  | 3/4       | 3/4       | SAE         | 806504006  | F. VEP 15 3/4 SAE     |
| NIPPLE                   | 3/4       | 3/4       | SAE         | 806504007  | M. VEP 15 3/4 SAE     |
| COUPLER                  | 1         | 1         | SAE         | 806504002  | F. VEP 17 1 SAE       |
| NIPPLE                   | 1         | 1         | SAE         | 806504003  | M. VEP 17 1 SAE       |
| COUPLER                  | 1 1/4     | 1 1/4     | SAE         | 806504010  | F. VEP21 1 1/4 SAE    |
| NIPPLE                   | 1 1/4     | 1 1/4     | SAE         | 806504011  | M. VEP21 1 1/4 SAE    |
| COUPLER                  | 1 1/2     | 1 1/2     | SAE         | 806504012  | F. VEP30 1 1/2 SAE    |
| NIPPLE                   | 1 1/2     | 1 1/2     | SAE         | 806504013  | M. VEP30 1 1/2 SAE    |
| COUPLER                  | 2         | 2         | SAE         | 807204018  | F. VEP45 2 SAE        |
| NIPPLE                   | 2         | 2         | SAE         | 807204019  | M. VEP45 2 SAE        |
| <b>VEP FLANGE THREAD</b> |           |           |             |            |                       |
| COUPLER                  | 2         | 2         | FLANGE      | 807224020  | F. VEP45 2 CODE 62 FP |
| NIPPLE                   | 2         | 2         | FLANGE      | 807224021  | M. VEP45 2 CODE 62 FP |



## VEP ORFS and BSP Thread\_Flat Face Thread Coupling with High Residual Pressure

| PART                      | BODY SIZE | PORT SIZE | THREAD TYPE   | ORDER CODE | PART DESCRIPTION       |
|---------------------------|-----------|-----------|---------------|------------|------------------------|
| <b>VEP ORFS THREAD</b>    |           |           |               |            |                        |
| COUPLER                   | 3/8       | 3/8       | ORFS          | 807213002  | F. VEP 9P 3/8 ORFS     |
| NIPPLE                    | 3/8       | 3/8       | ORFS          | 807213003  | M. VEP 9P 3/8 ORFS     |
| COUPLER                   | 1/2       | 1/2       | ORFS          | 807213004  | F. VEP 13P 1/2 ORFS    |
| NIPPLE                    | 1/2       | 1/2       | ORFS          | 807213005  | M. VEP 13P 1/2 ORFS    |
| COUPLER                   | 3/4       | 3/4       | ORFS          | 807213006  | F. VEP 15P 3/4 ORFS    |
| NIPPLE                    | 3/4       | 3/4       | ORFS          | 807213007  | M. VEP 15P 3/4 ORFS    |
| COUPLER                   | 1         | 1         | ORFS          | 807213008  | F. VEP 17P 1 ORFS      |
| NIPPLE                    | 1         | 1         | ORFS          | 807213009  | M. VEP 17P 1 ORFS      |
| <b>VEP ORFS BH THREAD</b> |           |           |               |            |                        |
| COUPLER                   | 3/8       | 3/8       | ORFS BULKHEAD | 807213016  | F. VEP 9P 3/8 ORFS BH  |
| NIPPLE                    | 3/8       | 3/8       | ORFS BULKHEAD | 807213017  | M. VEP 9P 3/8 ORFS BH  |
| COUPLER                   | 1/2       | 1/2       | ORFS BULKHEAD | 807213018  | F. VEP 13P 1/2 ORFS BH |
| NIPPLE                    | 1/2       | 1/2       | ORFS BULKHEAD | 807213019  | M. VEP 13P 1/2 ORFS BH |
| COUPLER                   | 3/4       | 3/4       | ORFS BULKHEAD | 807213020  | F. VEP 15P 3/4 ORFS BH |
| NIPPLE                    | 3/4       | 3/4       | ORFS BULKHEAD | 807213021  | M. VEP 15P 3/4 ORFS BH |
| COUPLER                   | 1         | 1         | ORFS BULKHEAD | 807213022  | F. VEP 17P 1 ORFS BH   |
| NIPPLE                    | 1         | 1         | ORFS BULKHEAD | 807213023  | M. VEP 17P 1 ORFS BH   |
| <b>VEP BSP THREAD</b>     |           |           |               |            |                        |
| COULER                    | 3/8       | 3/8       | BSP           | 807200002  | F. VEP 9P 3/8 BSP      |
| NIPPLE                    | 3/8       | 3/8       | BSP           | 807200003  | M. VEP 9P 3/8 BSP      |
| COULER                    | 1/2       | 1/2       | BSP           | 807200006  | F. VEP 13P 1/2 BSP     |
| NIPPLE                    | 1/2       | 1/2       | BSP           | 807200007  | M. VEP 13P 1/2 BSP     |
| COULER                    | 3/4       | 3/4       | BSP           | 807200010  | F. VEP 15 3/4 BSP      |
| NIPPLE                    | 3/4       | 3/4       | BSP           | 807200011  | M. VEP 15P 3/4 BSP     |
| COULER                    | 1         | 1         | BSP           | 807200012  | F. VEP 17P 1 BSP       |
| NIPPLE                    | 1         | 1         | BSP           | 807200013  | M. VEP 17P 1 BSP       |
| COULER                    | 1 1/4     | 1         | BSP           | 807200020  | F. VEP 21P 1 BSP       |
| NIPPLE                    | 1 1/4     | 1         | BSP           | 807200021  | M. VEP 21P 1 BSP       |
| COULER                    | 1 1/4     | 1 1/4     | BSP           | 807200014  | F. VEP 21P 1 1/4 BSP   |
| NIPPLE                    | 1 1/4     | 1 1/4     | BSP           | 807200015  | M. VEP 21P 1 1/4 BSP   |
| COULER                    | 1 1/2     | 1 1/2     | BSP           | 807200022  | F. VEP 30P 1 1/2 BSP   |
| NIPPLE                    | 1 1/2     | 1 1/2     | BSP           | 807200023  | M. VEP 30P 1 1/2 BSP   |
| COULER                    | 2         | 2         | BSP           | 807200018  | F. VEP 45P 2 BSP       |
| NIPPLE                    | 2         | 2         | BSP           | 807200019  | M. VEP 45P 2 BSP       |



COUPLER



NIPPLE

# Connect Under Pressure Threaded Flat Face Coupling



## Flat Face: Threaded Coupling

**Series: VEP HD**

**Interchange: VEP**

- High working pressures: 40-55 MPa/5800-7250 psi range based on size
- Threaded coupling system eliminates brinelling, premature leakage
- Connect/disconnect under residual pressure up to 25 MPa/3625 psi
- Valve limits fluid movement during connection avoiding damage to other elements of circuit
- Low connection force required

**Fire Tested and Lloyd's Certified\* in compliance with API 16D Test and EUB Directive 36.**

\* Lloyd's document available upon request

### Overview

Stucchi VEP HD Series is the ultimate solution and most popular to hydraulic circuit applications subject to high pressure impulses, and circuits which experience high residual or trapped pressure in a line. The VEP HD thread-to-connect design eliminates premature wear or brinelling associated with locking ball designs subjected to high impulse pressures. New HD version has upgraded material, yellow o-ring visual ID, and larger mating areas. The patented internal valve allows connection and disconnection with high residual pressures. Flat face design avoids loss of hydraulic fluid during connection/disconnection. Flat face design is easy to clean, limiting contamination into the circuit.

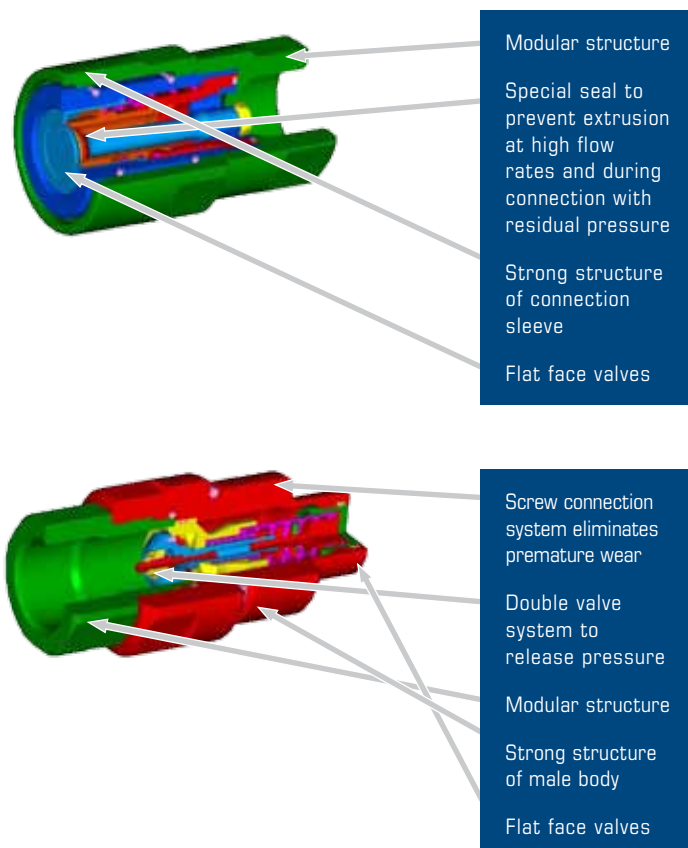
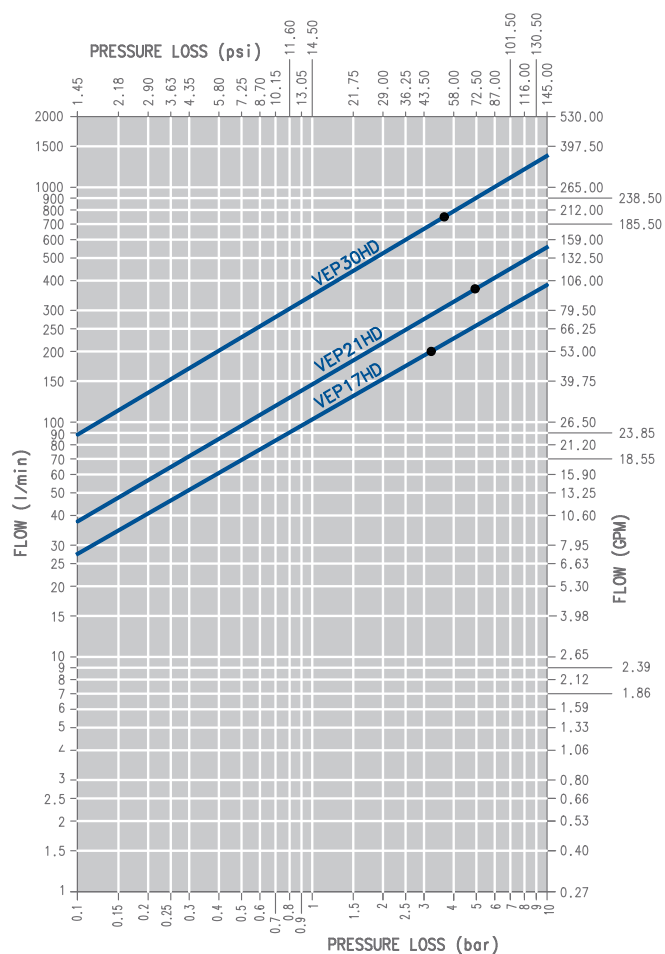
### Application & Features

- Higher grade of steel for longer life, yellow o-ring visual ID, and larger mating areas
- Excavators w/auxiliary line for attachments: thumbs, grapples, hammers, and compactors/hopaks
- High impulse mobile circuits
- All construction equipment applications with higher pressure requirements or issues of connecting/disconnecting tool attachments under residual pressure
- Connect/disconnect up to 25 MPa/3625 psi residual pressure
- Save time changing tools



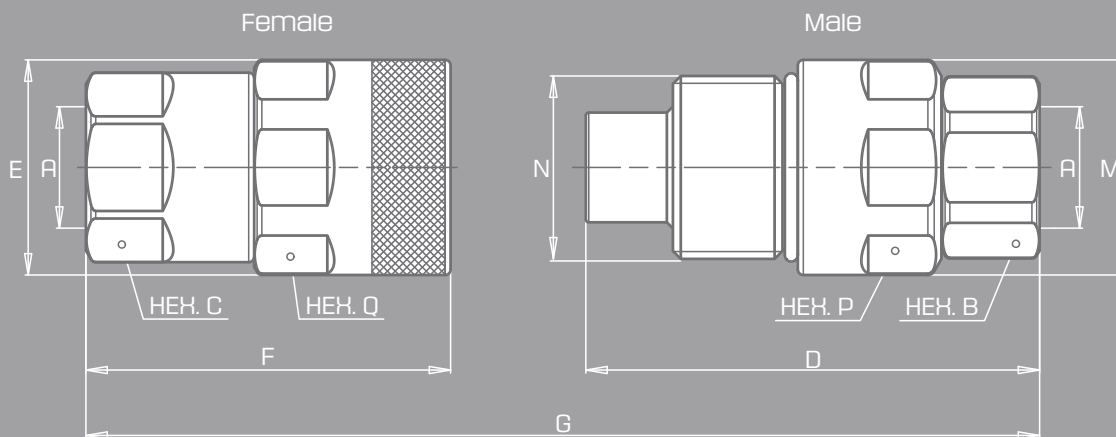
| DESCRIPTION        | PORT<br>TYPE | SIZE  | MAX. OPERATING<br>PRESSURE<br>COUPLED |      | BURST PRESSURE |       |      |       |        |       | MAX. RESIDUAL<br>PRESSURE<br>DURING<br>CONNECTION |      | SPILLAGE* |
|--------------------|--------------|-------|---------------------------------------|------|----------------|-------|------|-------|--------|-------|---------------------------------------------------|------|-----------|
|                    |              |       |                                       |      | COUPLED        |       | MALE |       | FEMALE |       |                                                   |      |           |
|                    |              |       | MPa                                   | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   | MPa                                               | psi  |           |
| VEP HD FLANGE PORT |              |       |                                       |      |                |       |      |       |        |       |                                                   |      |           |
| VEP17HD            | FLANGE       | 1     | 42                                    | 6091 | 165            | 24000 | 165  | 24000 | 100    | 14500 | 25                                                | 3625 | 0.018     |
| VEP21HD            | FLANGE       | 1 1/4 | 42                                    | 6091 | 165            | 24000 | 165  | 24000 | 80     | 11600 | 25                                                | 3625 | 0.060     |
| VEP30HD            | FLANGE       | 1 1/2 | 42                                    | 6091 | 165            | 24000 | 165  | 24000 | 80     | 11600 | 25                                                | 3625 | 0.200     |
| VEP HD             |              |       |                                       |      |                |       |      |       |        |       |                                                   |      |           |
| VEP15HD            |              | 3/4   | 55                                    | 7975 | 140            | 20300 | 140  | 20300 | 100    | 14500 | 25                                                | 3625 | 0.033     |
| VEP17HD            |              | 1     | 50                                    | 7250 | 125            | 18125 | 125  | 18125 | 100    | 14500 | 25                                                | 3625 | 0.018     |
| VEP21HD            |              | 1 1/4 | 47                                    | 6815 | 120            | 17400 | 120  | 17400 | 80     | 11600 | 25                                                | 3625 | 0.060     |
| VEP30HD            |              | 1 1/2 | 40                                    | 5800 | 110            | 15950 | 110  | 15950 | 80     | 11600 | 25                                                | 3625 | 0.200     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE



# Connect Under Pressure Threaded Flat Face Coupling

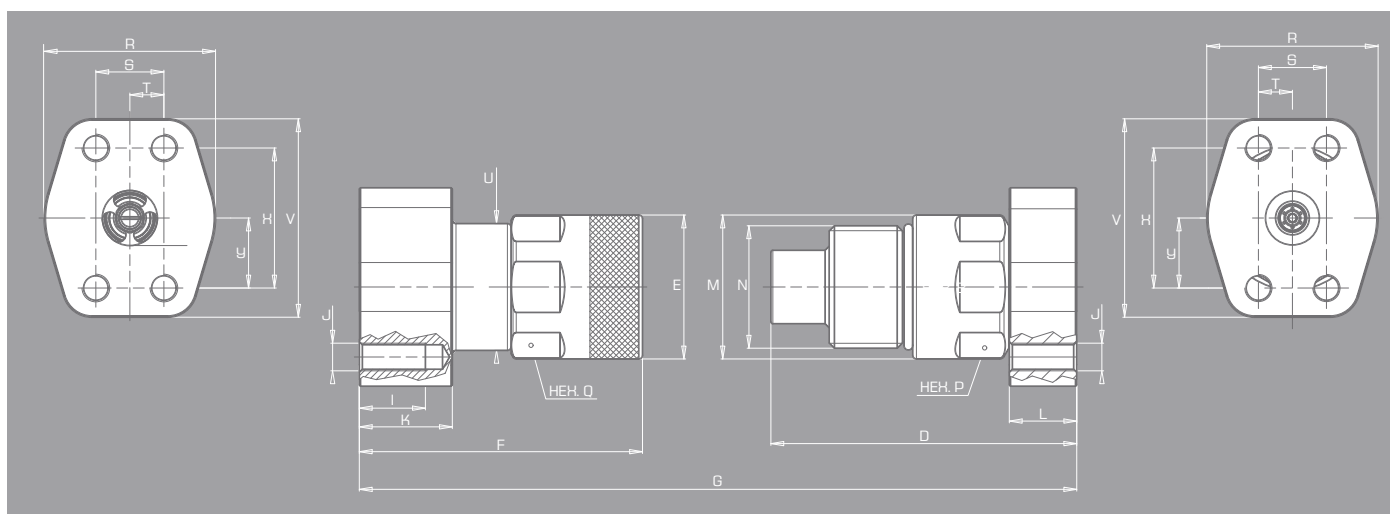
## VEP HD: Connect Under Pressure



| DESCRIPTION | BODY SIZE | A     | UNIT | B    | C    | D     | E    | F     | G     | M    | N     | P    | Q    | UNIT | WEIGHT |        |
|-------------|-----------|-------|------|------|------|-------|------|-------|-------|------|-------|------|------|------|--------|--------|
|             |           |       |      |      |      |       |      |       |       |      |       |      |      |      | MALE   | FEMALE |
| VEP17HD     | 1         | 3/4   | mm   | 46   | 46   | 124   | 58.8 | 99.7  | 200.9 | 58.8 | M50x3 | 55   | 55   | Kg   | 1.350  | 1.330  |
|             |           |       | inch | 1.81 | 1.81 | 4.88  | 2.31 | 3.93  | 7.91  | 2.31 |       | 2.17 | 2.17 | lb   | 2.98   | 2.93   |
| VEP17HD     | 1         | 1     | mm   | 46   | 46   | 12    | 58.8 | 99.7  | 200.9 | 58.8 | M50x3 | 55   | 55   | Kg   | 1.300  | 1.280  |
|             |           |       | inch | 1.81 | 1.81 | 4.88  | 2.31 | 3.93  | 7.91  | 2.31 |       | 2.17 | 2.17 | lb   | 2.87   | 2.82   |
| VEP21HD     | 1 1/4     | 1     | mm   | 55   | 55   | 133.4 | 69.8 | 106.8 | 216.2 | 69.8 | M58x3 | 65   | 65   | Kg   | 1.890  | 2.120  |
|             |           |       | inch | 2.17 | 2.17 | 5.25  | 2.75 | 4.20  | 8.51  | 2.75 |       | 2.56 | 2.56 | lb   | 4.17   | 4.67   |
| VEP21HD     | 1 1/4     | 1 1/4 | mm   | 55   | 55   | 133.4 | 69.8 | 106.8 | 216.2 | 69.8 | M58x3 | 65   | 65   | Kg   | 1.790  | 2.020  |
|             |           |       | inch | 2.17 | 2.17 | 5.25  | 2.75 | 4.20  | 8.51  | 2.75 |       | 2.56 | 2.56 | lb   | 3.95   | 4.45   |
| VEP30HD     | 1 1/2     | 1 1/4 | mm   | 65   | 65   | 150   | 95   | 133.5 | 253.9 | 94.4 | M80x4 | 75   | 85   | Kg   | 3.400  | 4.460  |
|             |           |       | inch | 2.56 | 2.56 | 5.91  | 3.74 | 5.26  | 10.0  | 3.72 |       | 2.95 | 3.35 | lb   | 7.50   | 9.83   |
| VEP30HD     | 1 1/2     | 1 1/2 | mm   | 65   | 65   | 150   | 95   | 133.5 | 253.9 | 94.4 | M80x4 | 75   | 85   | Kg   | 3.300  | 4.360  |
|             |           |       | inch | 2.56 | 2.56 | 5.91  | 3.74 | 5.26  | 10.0  | 3.72 |       | 2.95 | 3.35 | lb   | 7.28   | 9.61   |



## VEP HD Flange Pad: Connect Under Pressure



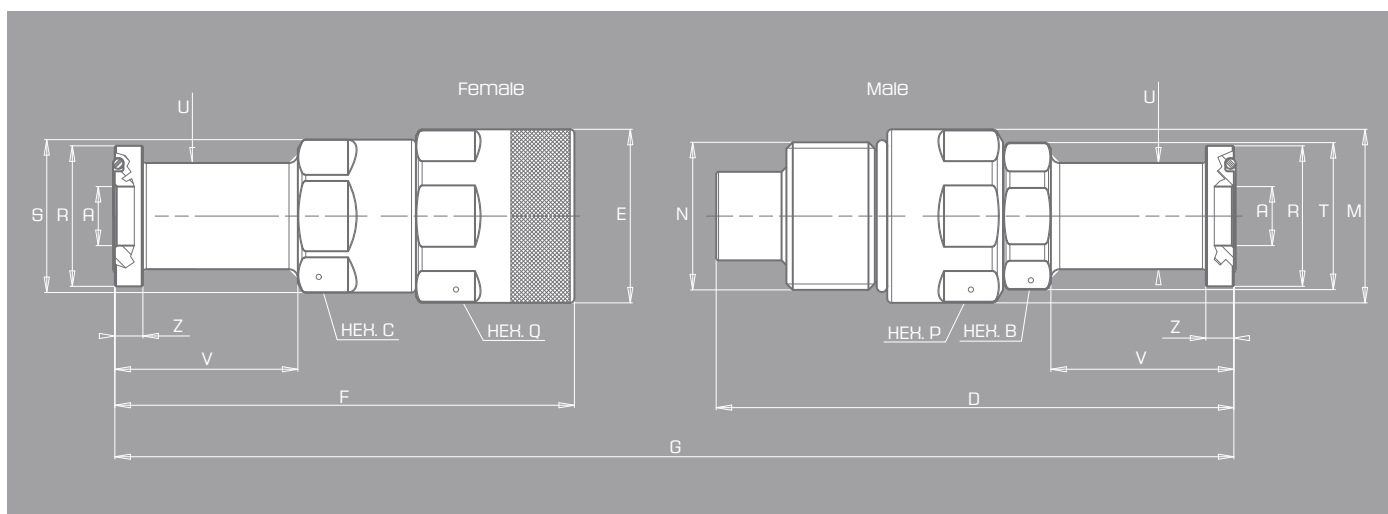
| DESCRIPTION               | UNIT | D     | E    | F     | G     | I    | J               | K    | L     | M    | N        | P    |
|---------------------------|------|-------|------|-------|-------|------|-----------------|------|-------|------|----------|------|
| VEP17HD 1 FPU CODE 62     | mm   | 125   | 58.8 | 115.7 | 217.9 | 27   | UNC 7/16 - 14   | 38   | 27.55 | 58.8 | M50X3    | 55   |
|                           | inch | 4.92  | 2.31 | 4.56  | 8.58  | 1.06 |                 | 1.5  | 1.08  | 2.31 |          | 2.16 |
| VEP21HD 1 FPM CODE 62     | mm   | 135.2 | 69.8 | 116.8 | 228   | 27   | M12             | 38   | 38    | 69.8 | M58X3    | 65   |
|                           | inch | 5.32  | 2.75 | 4.6   | 8.98  | 1.06 |                 | 1.5  | 1.5   | 2.75 |          | 2.56 |
| VEP21HD 1 1/4 FPU CODE 62 | mm   | 123.2 | 69.8 | 115.8 | 215   | 25   | UNC 1/2 - 13    | 37   | 26    | 69.8 | M58X3    | 65   |
|                           | inch | 4.85  | 2.75 | 4.57  | 8.46  | 0.98 |                 | 1.46 | 1.02  | 2.75 |          | 2.56 |
| VEP30HD 1 1/4 FPU CODE 62 | mm   | 147.6 | 95   | 148.5 | 266.5 | 27   | UNC 1/2 - 13 2B | 37.9 | 35    | 94.4 | 80X4 TPF | 75   |
|                           | inch | 5.81  | 3.74 | 5.85  | 10.49 | 1.06 |                 | 1.49 | 1.38  | 3.72 |          | 2.95 |
| VEP30HD 1 1/4 FPM CODE 62 | mm   | 147.6 | 95   | 148.5 | 266.5 | 25   | M14             | 37.9 | 35    | 94.4 | 80X4 TPF | 75   |
|                           | inch | 5.81  | 3.74 | 5.85  | 10.49 | 0.98 |                 | 1.49 | 1.38  | 3.72 |          | 2.95 |
| VEP30HD 1 1/2 FPU CODE 62 | mm   | 149.6 | 95   | 156.6 | 276.6 | 35   | UNC 5/8 - 11    | 46   | 37    | 94.4 | 80X4 TPF | 75   |
|                           | inch | 5.89  | 3.74 | 6.16  | 10.89 | 1.38 |                 | 1.81 | 1.46  | 3.72 |          | 2.95 |

| DESCRIPTION               | UNIT | Q    | R    | S    | T     | U    | V     | W    | X    | Y     | Z    | UNIT | WEIGHT |        |
|---------------------------|------|------|------|------|-------|------|-------|------|------|-------|------|------|--------|--------|
|                           |      |      |      |      |       |      |       |      |      |       |      |      | MALE   | FEMALE |
| VEPL7HD 1 FPU CODE62      | mm   | 55   | 70   | 27.8 | 13.9  | 51.8 | 81.05 | 22.5 | 57.2 | 28.6  | 22   | Kg   | 1.96   | 2.34   |
|                           | inch | 2.16 | 2.76 | 1.09 | 0.55  | 2.04 | 3.19  | 0.89 | 2.25 | 1.13  | 0.87 | lb   | 4.31   | 5.15   |
| VEP2LHD 1 FPM CODE 62     | mm   | 65   | 70   | 27.8 | 13.9  | 68   | 81.05 | 22.5 | 57.2 | 28.6  | 22.5 | Kg   | 2.23   | 2.82   |
|                           | inch | 2.56 | 2.76 | 1.09 | 0.55  | 2.68 | 3.19  | 0.89 | 2.25 | 1.13  | 0.89 | lb   | 4.91   | 6.2    |
| VEP2LHD 1 1/4 FPU CODE 62 | mm   | 65   | 78   | 31.8 | 15.9  | 68   | 95.25 | 25.6 | 66.6 | 33.3  | 25.6 | Kg   | 2.45   | 3.29   |
|                           | inch | 2.56 | 3.07 | 1.25 | 0.63  | 2.68 | 3.75  | 1.01 | 2.62 | 1.31  | 1.01 | lb   | 5.39   | 7.24   |
| VEP30HD 1 1/4 FPU CODE 62 | mm   | 85   | 78   | 31.8 | 15.9  | 89   | 95.25 | 32   | 66.6 | 33.3  | 32   | Kg   | 4.01   | 5.68   |
|                           | inch | 3.35 | 3.07 | 1.25 | 0.63  | 3.5  | 3.75  | 1.26 | 2.62 | 1.31  | 1.26 | lb   | 8.82   | 12.5   |
| VEP30HD 1 1/4 FPM CODE 62 | mm   | 85   | 78   | 31.8 | 15.9  | 89   | 95.25 | 32   | 66.6 | 33.3  | 32   | Kg   | 4.01   | 5.68   |
|                           | inch | 3.35 | 3.07 | 1.25 | 0.63  | 3.5  | 3.75  | 1.26 | 2.62 | 1.31  | 1.26 | lb   | 8.82   | 12.5   |
| VEP30HD 1 1/2 FPU CODE 62 | mm   | 85   | 95   | 36.5 | 18.25 | 89   | 112.8 | 35   | 79.3 | 39.65 | 32   | Kg   | 4.81   | 6.91   |
|                           | inch | 3.35 | 3.74 | 1.44 | 0.72  | 3.5  | 4.44  | 1.38 | 3.12 | 1.56  | 1.26 | lb   | 10.58  | 15.2   |



# Connect Under Pressure Threaded Flat Face Coupling

## VEP HD Flange Head: Connect Under Pressure



| DESCRIPTION              | A    | UNIT | B    | C    | D     | E    | F     | G     | M    | N        | P    |
|--------------------------|------|------|------|------|-------|------|-------|-------|------|----------|------|
| VEP17HD 1 FH CODE 62     | 20   | mm   | 46   | 46   | 175.4 | 58.8 | 155.7 | 308.3 | 58.8 | M50X3    | 55   |
|                          | 0.79 | inch | 1.81 | 1.81 | 6.9   | 2.31 | 6.13  | 12.14 | 2.31 |          | 2.16 |
| VEP21HD 1 1/4 FH CODE 62 | 25.6 | mm   | 55   | 55   | 184.2 | 69.8 | 170.8 | 331   | 69.8 | M58X3    | 65   |
|                          | 1.01 | inch | 2.16 | 2.16 | 7.25  | 2.75 | 6.72  | 13.03 | 2.75 |          | 2.56 |
| VEP30HD 1 1/4 FH CODE 62 | 28   | mm   | 65   | 65   | 201.6 | 95   | 199.5 | 371.5 | 94.4 | 80X4 TPF | 75   |
|                          | 1.1  | inch | 2.56 | 2.56 | 7.94  | 3.74 | 7.85  | 14.63 | 3.72 |          | 2.95 |
| VEP30HD 1 1/2 FH CODE 62 | 32   | mm   | 65   | 65   | 211.6 | 95   | 209.5 | 391.5 | 94.4 | 80X4 TPF | 75   |
|                          | 1.26 | inch | 2.56 | 2.56 | 8.33  | 3.74 | 8.25  | 15.41 | 3.72 |          | 2.95 |

| DESCRIPTION              | UNIT | Q    | R    | S    | T    | U    | V    | Z    | UNIT | WEIGHT |        |
|--------------------------|------|------|------|------|------|------|------|------|------|--------|--------|
|                          |      |      |      |      |      |      |      |      |      | MALE   | FEMALE |
| VEP17HD 1 FH CODE 62     | mm   | 55   | 47.6 | 51.8 | 49.8 | 36   | 62   | 9.5  | Kg   | 1.65   | 1.68   |
|                          | inch | 2.16 | 1.87 | 2.04 | 1.96 | 1.42 | 2.44 | 0.37 | lb   | 3.63   | 3.7    |
| VEP21HD 1 1/4 FH CODE 62 | mm   | 65   | 53.9 | 68   | 59.8 | 41.9 | 69   | 10.3 | Kg   | 2.16   | 2.6    |
|                          | inch | 2.56 | 2.12 | 2.68 | 2.35 | 1.65 | 2.72 | 0.41 | lb   | 4.75   | 5.72   |
| VEP30HD 1 1/4 FH CODE 62 | mm   | 85   | 53.9 | 89   | 69.8 | 44   | 69   | 10.3 | Kg   | 3.61   | 5.01   |
|                          | inch | 3.35 | 2.12 | 3.5  | 2.75 | 1.73 | 2.72 | 0.41 | lb   | 7.94   | 11.02  |
| VEP30HD 1 1/2 FH CODE 62 | mm   | 85   | 63.5 | 89   | 69.8 | 49   | 79   | 12.6 | Kg   | 3.85   | 5.23   |
|                          | inch | 3.35 | 2.5  | 3.5  | 2.75 | 1.93 | 3.11 | 0.5  | lb   | 8.47   | 11.51  |



## VEP-HD NPT and SAE Thread\_Flat Face Thread Coupling with High Residual Pressure

| PART                     | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION     |
|--------------------------|-----------|-----------|-------------|------------|----------------------|
| <b>VEP-HD NPT THREAD</b> |           |           |             |            |                      |
| COUPLER                  | 3/4       | 3/4       | NPT         | 808101010  | F. VEP 15HD 3/4 NPT  |
| NIPPLE                   | 3/4       | 3/4       | NPT         | 808101011  | M. VEP 15HD 3/4 NPT  |
| COUPLER                  | 1         | 1         | NPT         | 808101012  | F. VEP17HD 1 NPT     |
| NIPPLE                   | 1         | 1         | NPT         | 808101013  | M. VEP17HD 1 NPT     |
| COUPLER                  | 1 1/4     | 1 1/4     | NPT         | 808101014  | F. VEP21HD 1 1/4 NPT |
| NIPPLE                   | 1 1/4     | 1 1/4     | NPT         | 808101015  | M. VEP21HD 1 1/4 NPT |
| COUPLER                  | 1 1/2     | 1 1/2     | NPT         | 808101016  | F. VEP30HD 1 1/2 NPT |
| NIPPLE                   | 1 1/2     | 1 1/2     | NPT         | 808101017  | M. VEP30HD 1 1/2 NPT |
| <b>VEP-HD SAE THREAD</b> |           |           |             |            |                      |
| COUPLER                  | 3/4       | 3/4       | SAE         | 808104010  | F. VEP 15HD 3/4 SAE  |
| NIPPLE                   | 3/4       | 3/4       | SAE         | 808104011  | M. VEP 15HD 3/4 SAE  |
| COUPLER                  | 1         | 1         | SAE         | 808104012  | F. VEP17HD 1 SAE     |
| NIPPLE                   | 1         | 1         | SAE         | 808104013  | M. VEP17HD 1 SAE     |
| COUPLER                  | 1 1/4     | 1 1/4     | SAE         | 808104014  | F. VEP21HD 1 1/4 SAE |
| NIPPLE                   | 1 1/4     | 1 1/4     | SAE         | 808104015  | M. VEP21HD 1 1/4 SAE |
| COUPLER                  | 1 1/2     | 1 1/2     | SAE         | 808104016  | F. VEP30HD 1 1/2 SAE |
| NIPPLE                   | 1 1/2     | 1 1/2     | SAE         | 808104017  | M. VEP30HD 1 1/2 SAE |



COUPLER



NIPPLE

## VEP-HD Flange Ports\_Flat Face Thread Coupling with High Residual Pressure

| PART                       | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION                  |
|----------------------------|-----------|-----------|-------------|------------|-----------------------------------|
| <b>VEP-HD FLANGE PORTS</b> |           |           |             |            |                                   |
| COUPLER                    | 1         | 1         | FLANGE HEAD | 808124012  | F. VEP17 HD 1FH CODE 62           |
| NIPPLE                     | 1         | 1         | FLANGE HEAD | 808124013  | M. VEP17 HD 1FH CODE 62           |
| COUPLER                    | 1         | 1         | FLANGE PAD  | 808124020  | F. VEP17 HD 1 FPU CODE 62         |
| NIPPLE                     | 1         | 1         | FLANGE PAD  | 808124021  | M. VEP17 HD 1 FPU CODE 62         |
| COUPLER                    | 1 1/4     | 1 1/4     | FLANGE HEAD | 808124014  | F. VEP21 HD 1 1/4 FH CODE 62      |
| NIPPLE                     | 1 1/4     | 1 1/4     | FLANGE HEAD | 808124015  | M. VEP21 HD 1 1/4 FH CODE 62      |
| COUPLER                    | 1 1/4     | 1 1/4     | FLANGE PAD  | 808124022  | F. VEP21 HD 1 1/4 FPU CODE 62     |
| NIPPLE                     | 1 1/4     | 1 1/4     | FLANGE PAD  | 808124023  | M. VEP21 HD 1 1/4 FPU CODE 62     |
| COUPLER                    | 1 1/2     | 1 1/2     | FLANGE HEAD | 808124016  | F. VEP30HD 1 1/2 FH CODE 62       |
| NIPPLE                     | 1 1/2     | 1 1/2     | FLANGE HEAD | 808124017  | M. VEP30HD 1 1/2 FH CODE 62       |
| COUPLER                    | 1 1/2     | 1 1/2     | FLANGE PAD  | 808124024  | F. VEP30HD 1 1/2 FPU CODE 62      |
| NIPPLE                     | 1 1/2     | 1 1/2     | FLANGE PAD  | 808124025  | M. VEP30HD 1 1/2 FPU CODE 62      |
| COUPLER                    | 1 1/2     | 1 1/4     | FLANGE HEAD | 808124038  | F. VEP30HD 1 1/4 FH CODE 62       |
| NIPPLE                     | 1 1/2     | 1 1/4     | FLANGE HEAD | 808124039  | M. VEP30HD 1 1/4 FH CODE 62       |
| COUPLER                    | 1 1/2     | 1 1/2     | FLANGE PAD  | 808124034  | F. VEP 30HD 1 1/2 FPM CODE 62 M12 |
| NIPPLE                     | 1 1/2     | 1 1/2     | FLANGE PAD  | 808124035  | M. VEP 30HD 1 1/2 FPM CODE 62 M12 |
| COUPLER                    | 1 1/2     | 1 1/2     | FLANGE PAD  | 808124040  | F. VEP 30HD 1 1/2 FPM CODE 62 M14 |
| NIPPLE                     | 1 1/2     | 1 1/2     | FLANGE PAD  | 808124041  | M. VEP 30HD 1 1/2 FPM CODE 62 M14 |

2 BOLT THREAD OPTIONS FOR FLANGE PAD PORTS: UNF AND METRIC.  
FOR SIZE 1 1/4 PAD METRIC OPTIONS ARE M12 & M14.



FLANGE HEAD



FLANGE PAD

# Connect Under Pressure Threaded Flat Face Coupling



## Flat Face: Threaded Coupling

**Series:** VP

**Interchange:** None

- Connect/disconnect with residual pressure up to 25 MPa/3625 psi
- Thread coupling system eliminates brinelling, premature leakage
- High working pressures: up to 40-60 MPa/5800-8700 psi
- Valve limits fluid movement during connection avoiding damage to other elements of circuit
- Low connection force required
- Safety auto-lock feature upon connecting

**Fire Tested and Lloyd's Certified\* in compliance with API 16D Test and EUB Directive 36.**

\*Lloyd's document available upon request

### Overview

Stucchi VP series is the ultimate solution and most popular for hydraulic circuit applications subject to high pressure impulses, and circuits which experience high residual or trapped pressure in a line. The VP thread-to-connect design eliminates premature wear or brinelling associated with locking ball designs subjected to high impulse pressures. The patented internal valve allows connection and disconnection with high residual pressures. Flat face design avoids loss of hydraulic fluid during connection/disconnection. Flat face design is easy to clean, limiting contamination into the circuit.

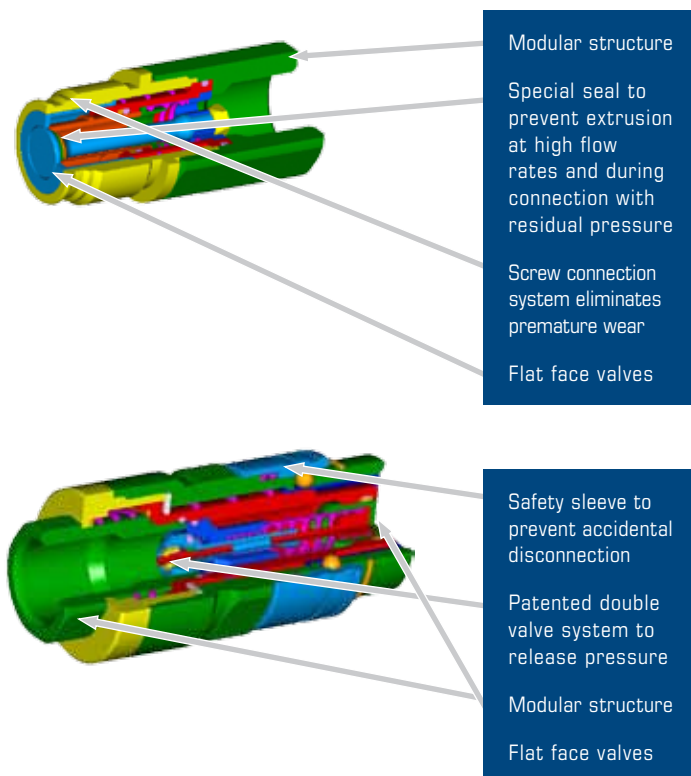
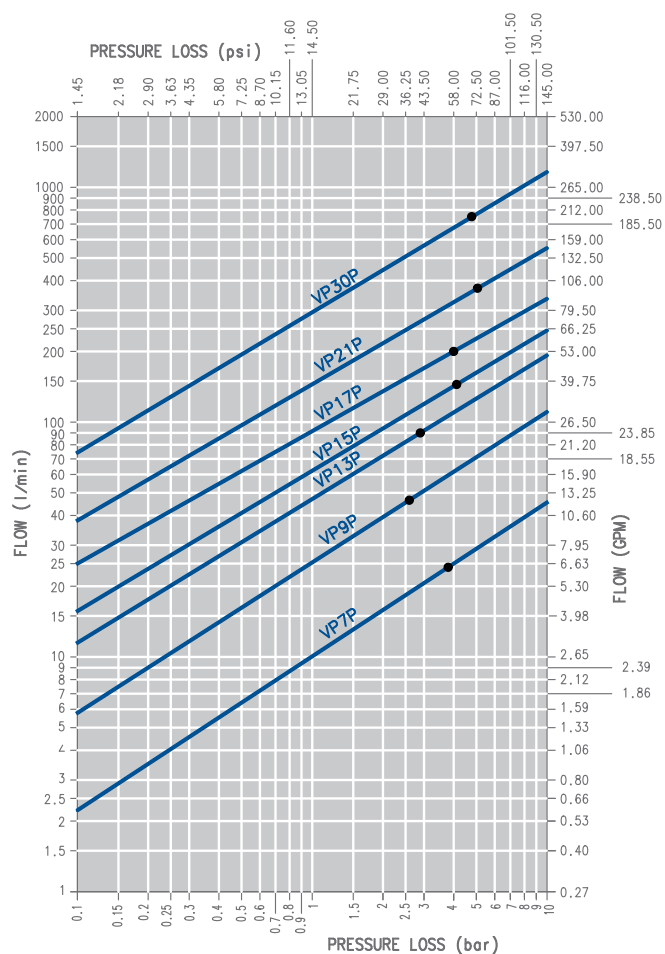
### Applications & Features

- Excavators w/auxiliary line for attachments: thumbs, grapples, hammers
- Oil Field, well head drives, porta-power
- Cranes, drilling machines, all large equipment needing junction points in circuit
- All construction equipment applications with higher pressure requirements or issues of connecting/disconnecting tool attachments under residual pressure
- Connect/disconnect up to 25MPa/3625 psi residual pressure
- Save time changing tools



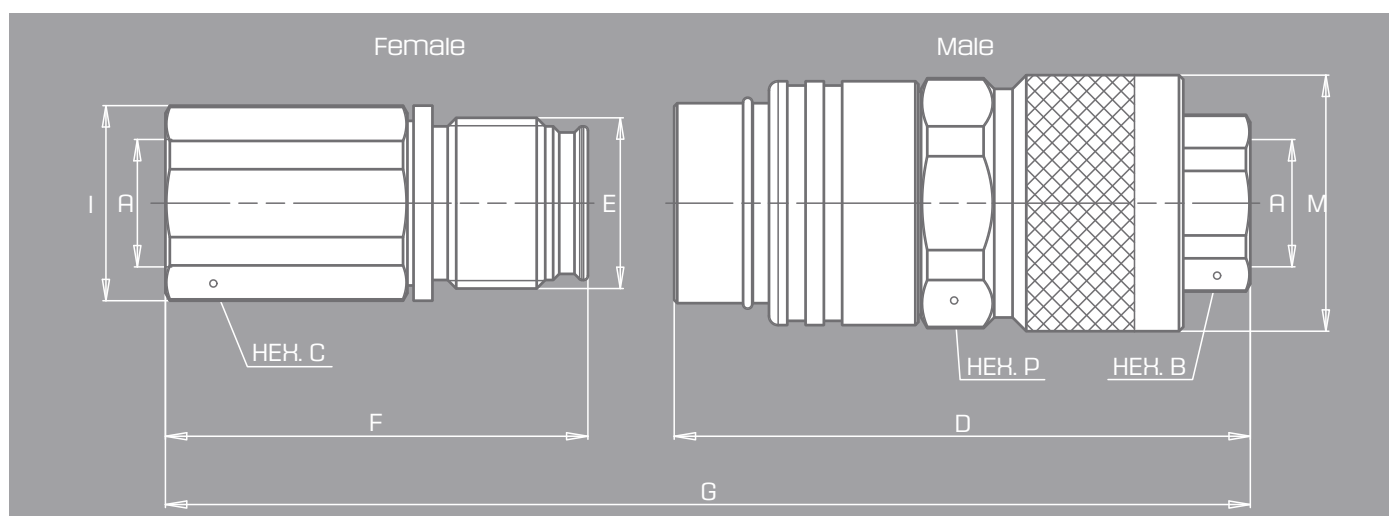
| DESCRIPTION | SIZE  | MAX. OPERATING<br>PRESSURE COUPLED |      | BURST PRESSURE |       |      |       |        |       | MAX. RESIDUAL<br>PRESSURE DURING<br>CONNECTION |      | SPILLAGE* |
|-------------|-------|------------------------------------|------|----------------|-------|------|-------|--------|-------|------------------------------------------------|------|-----------|
|             |       |                                    |      | COUPLED        |       | MALE |       | FEMALE |       |                                                |      |           |
|             |       | MPa                                | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   | MPa                                            | psi  |           |
| VP7         | 1/4   | 60                                 | 8700 | 150            | 21750 | 150  | 21750 | 126    | 18270 | 30                                             | 4350 | 0.012     |
| VP9P        | 3/8   | 55                                 | 7975 | 140            | 20300 | 140  | 20300 | 100    | 14500 | 25                                             | 3625 | 0.040     |
| VP13P       | 1/2   | 55                                 | 7975 | 140            | 20300 | 140  | 20300 | 100    | 14500 | 25                                             | 3625 | 0.025     |
| VP15P       | 3/4   | 55                                 | 7975 | 140            | 20300 | 140  | 20300 | 100    | 14500 | 25                                             | 3625 | 0.033     |
| VP17P       | 1     | 50                                 | 7250 | 125            | 18125 | 125  | 18125 | 100    | 14500 | 25                                             | 3625 | 0.018     |
| VP21P       | 1 1/4 | 47                                 | 6815 | 120            | 17400 | 120  | 17400 | 80     | 11600 | 25                                             | 3625 | 0.060     |
| VP30P       | 1 1/2 | 40                                 | 5800 | 110            | 15950 | 110  | 15950 | 80     | 11600 | 25                                             | 3625 | 0.200     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE



# Connect Under Pressure Threaded Flat Face Coupling

## Flat Face: Threaded Connect Under Pressure



| DESCRIPTION | BODY SIZE | A     | UNIT | B    | C    | D     | E     | F     | G     | I    | M    | P    | UNIT | WEIGHT |        |
|-------------|-----------|-------|------|------|------|-------|-------|-------|-------|------|------|------|------|--------|--------|
|             |           |       |      |      |      |       |       |       |       |      |      |      |      | MALE   | FEMALE |
| VP7         | 1/4       | 1/4   | mm   | 22.0 | 27.0 | 85.3  | M24X2 | 52.8  | 126.6 | 29.0 | 35.0 | 32.0 | Kg   | 0.395  | 0.165  |
|             |           |       | inch | 0.87 | 1.06 | 3.36  |       | 2.08  | 4.98  | 1.14 | 1.38 | 1.26 |      | 0.87   | 0.36   |
| VP9P        | 3/8       | 3/8   | mm   | 27.0 | 30.0 | 94.5  | M28X2 | 64.3  | 142.3 | 32.0 | 42.0 | 38.0 | Kg   | 0.595  | 0.240  |
|             |           |       | inch | 1.06 | 1.18 | 3.72  |       | 2.53  | 5.60  | 1.26 | 1.65 | 1.50 |      | 1.31   | 0.53   |
| VP9P        | 3/8       | 1/2   | mm   | 27.0 | 30.0 | 94.5  | M28X2 | 69.3  | 147.3 | 32.0 | 42.0 | 38.0 | Kg   | 0.575  | 0.245  |
|             |           |       | inch | 1.06 | 1.18 | 3.72  |       | 2.73  | 5.80  | 1.26 | 1.65 | 1.50 |      | 1.27   | 0.54   |
| VP13P       | 1/2       | 1/2   | mm   | 36.0 | 36.0 | 110.0 | M36X3 | 76.2  | 167.9 | 40.0 | 49.0 | 45.0 | Kg   | 0.980  | 0.425  |
|             |           |       | inch | 1.42 | 1.42 | 4.33  |       | 3.00  | 6.61  | 1.57 | 1.93 | 1.77 |      | 2.16   | 0.94   |
| VP13P       | 1/2       | 3/4   | mm   | 36.0 | 36.0 | 110.0 | M36X3 | 83.2  | 174.9 | 40.0 | 49.0 | 45.0 | Kg   | 0.945  | 0.440  |
|             |           |       | inch | 1.42 | 1.42 | 4.33  |       | 3.28  | 6.89  | 1.57 | 1.93 | 1.77 |      | 2.08   | 0.97   |
| VP15P       | 3/4       | 3/4   | mm   | 36.0 | 41.0 | 110.0 | M39X3 | 83.4  | 174.9 | 44.8 | 52.0 | 48.0 | Kg   | 1.065  | 0.595  |
|             |           |       | inch | 1.42 | 1.61 | 4.33  |       | 3.28  | 6.89  | 1.76 | 2.05 | 1.89 |      | 2.35   | 1.31   |
| VP17P       | 1         | 3/4   | mm   | 46.0 | 46.0 | 127.1 | M45X3 | 95.0  | 199.5 | 49.8 | 60.0 | 55.0 | Kg   | 1.635  | 0.955  |
|             |           |       | inch | 1.81 | 1.81 | 5.00  |       | 3.74  | 7.85  | 1.96 | 2.36 | 2.17 |      | 3.60   | 2.11   |
| VP17P       | 1         | 1     | mm   | 46.0 | 46.0 | 127.1 | M45X3 | 98.0  | 202.5 | 49.8 | 60.0 | 55.0 | Kg   | 1.600  | 0.915  |
|             |           |       | inch | 1.81 | 1.81 | 5.00  |       | 3.86  | 7.97  | 1.96 | 2.36 | 2.17 |      | 3.53   | 2.02   |
| VP21P       | 1 1/4     | 1     | mm   | 55.0 | 55.0 | 137.0 | M55X3 | 104.0 | 213.8 | 59.8 | 76.0 | 70.0 | Kg   | 2.610  | 1.495  |
|             |           |       | inch | 2.17 | 2.17 | 5.39  |       | 4.09  | 8.42  | 2.35 | 2.99 | 2.76 |      | 5.75   | 3.30   |
| VP21P       | 1 1/4     | 1 1/4 | mm   | 55.0 | 55.0 | 137.0 | M55X3 | 108.3 | 218.1 | 59.8 | 76.0 | 70.0 | Kg   | 2.530  | 1.430  |
|             |           |       | inch | 2.17 | 2.17 | 5.39  |       | 4.26  | 8.59  | 2.35 | 2.99 | 2.76 |      | 5.58   | 3.15   |
| VP30P       | 1 1/2     | 1 1/4 | mm   | 65.0 | 65.0 | 174.7 | M72X4 | 132.2 | 271.3 | 85.0 | 94.0 | 85.0 | Kg   | 5.220  | 3.030  |
|             |           |       | inch | 2.56 | 2.56 | 6.88  |       | 5.20  | 10.68 | 3.35 | 3.70 | 3.35 |      | 11.51  | 6.68   |
| VP30P       | 1 1/2     | 1 1/2 | mm   | 65.0 | 65.0 | 174.7 | M72X4 | 132.2 | 271.3 | 85.0 | 94.0 | 85.0 | Kg   | 5.100  | 2.930  |
|             |           |       | inch | 2.56 | 2.56 | 6.88  |       | 5.20  | 10.68 | 3.35 | 3.70 | 3.35 |      | 11.24  | 6.46   |



## VP NPT and SAE Thread\_Flat Face Thread Coupling with High Residual Pressure | Auto Lock

| PART          | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION    |
|---------------|-----------|-----------|-------------|------------|---------------------|
| VP NPT THREAD |           |           |             |            |                     |
| COUPLER       | 1/4       | 1/4       | NPT         | 801901004  | F. VP 7P 1/4 NPT    |
| NIPPLE        | 1/4       | 1/4       | NPT         | 801901005  | M. VP 7P 1/4 NPT    |
| COUPLER       | 3/8       | 3/8       | NPT         | 801901010  | F. VP 9P 3/8 NPT    |
| NIPPLE        | 3/8       | 3/8       | NPT         | 801901011  | M. VP 9P 3/8 NPT    |
| COUPLER       | 3/8       | 1/2       | NPT         | 801901000  | F. VP 9P 1/2 NPT    |
| NIPPLE        | 3/8       | 1/2       | NPT         | 801901001  | M. VP 9P 1/2 NPT    |
| COUPLER       | 1/2       | 1/2       | NPT         | 801901006  | F. VP 13P 1/2 NPT   |
| NIPPLE        | 1/2       | 1/2       | NPT         | 801901007  | M. VP 13P 1/2 NPT   |
| COUPLER       | 1/2       | 3/4       | NPT         | 801901008  | F. VP 13P 3/4 NPT   |
| NIPPLE        | 1/2       | 3/4       | NPT         | 801901009  | M. VP 13P 3/4 NPT   |
| COUPLER       | 3/4       | 3/4       | NPT         | 801901002  | F. VP 15P 3/4 NPT   |
| NIPPLE        | 3/4       | 3/4       | NPT         | 801901003  | M. VP 15P 3/4 NPT   |
| COUPLER       | 1         | 1         | NPT         | 801901012  | F. VP 17P 1 NPT     |
| NIPPLE        | 1         | 1         | NPT         | 801901013  | M. VP 17P 1 NPT     |
| COUPLER       | 1 1/4     | 1 1/4     | NPT         | 801901014  | F. VP 21P 1 1/4 NPT |
| NIPPLE        | 1 1/4     | 1 1/4     | NPT         | 801901015  | M. VP 21P 1 1/4 NPT |
| COUPLER       | 1 1/2     | 1 1/2     | NPT         | 801901016  | F. VP 30P 1 1/2 NPT |
| NIPPLE        | 1 1/2     | 1 1/2     | NPT         | 801901017  | M. VP 30P 1 1/2 NPT |
| VP SAE THREAD |           |           |             |            |                     |
| COUPLER       | 3/8       | 3/8       | SAE         | 807304020  | F. VP 9P 3/8 SAE    |
| NIPPLE        | 3/8       | 3/8       | SAE         | 807304021  | M. VP 9P 3/8 SAE    |
| COUPLER       | 1/2       | 1/2       | SAE         | 807304022  | F. VP 13P 1/2 SAE   |
| NIPPLE        | 1/2       | 1/2       | SAE         | 807304023  | M. VP 13P 1/2 SAE   |
| COUPLER       | 1/2       | 3/4       | SAE         | 807304008  | F. VP 13P 3/4 SAE   |
| NIPPLE        | 1/2       | 3/4       | SAE         | 807304009  | M. VP 13P 3/4 SAE   |
| COUPLER       | 3/4       | 3/4       | SAE         | 807304010  | F. VP 15P 3/4 SAE   |
| NIPPLE        | 3/4       | 3/4       | SAE         | 807304011  | M. VP 15P 3/4 SAE   |
| COUPLER       | 1         | 1         | SAE         | 807304012  | F. VP 17P 1 SAE     |
| NIPPLE        | 1         | 1         | SAE         | 807304013  | M. VP 17P 1 SAE     |
| COUPLER       | 1 1/4     | 1 1/4     | SAE         | 807304014  | F. VP 21P 1 1/4 SAE |
| NIPPLE        | 1 1/4     | 1 1/4     | SAE         | 807304015  | M. VP 21P 1 1/4 SAE |
| COUPLER       | 1 1/2     | 1 1/2     | SAE         | 807304016  | F. VP 30P 1 1/2 SAE |
| NIPPLE        | 1 1/2     | 1 1/2     | SAE         | 807304017  | M. VP 30P 1 1/2 SAE |



COUPLER



NIPPLE



# ISO A Interchange Coupling



## Poppet: Interchange Coupling

### Series: BIR

**Interchange:** ISO A

BIR quick couplings are interchangeable according to the ISO 7241-1 series "A". They are available from size 1/4 to 2 inches in size, to cover the various fields of hydraulic applications. The series BIR couplings are the most used, from industrial plants to agriculture.

- Positive-stop valving prevents flow checking
- Large diameter sleeves resist deformation
- Steel sleeves hardened for maximum life
- Suitable for open center or closed center hydraulic system

### Overview

ISO A style couplings are one of the most popular designs worldwide used in agricultural, mobile equipment, and some industrial applications. The ISO A style is a durable product using a poppet style valve for the sealing mechanism. The Stucchi breadth of product exceeds that of most competitors by offering sizes over 1 inch.

### Technical Characteristics:

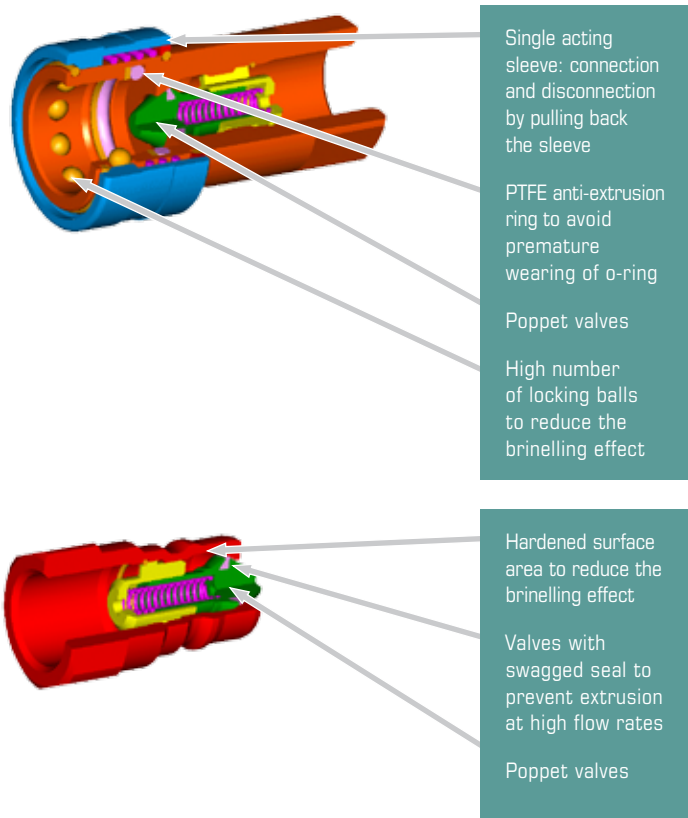
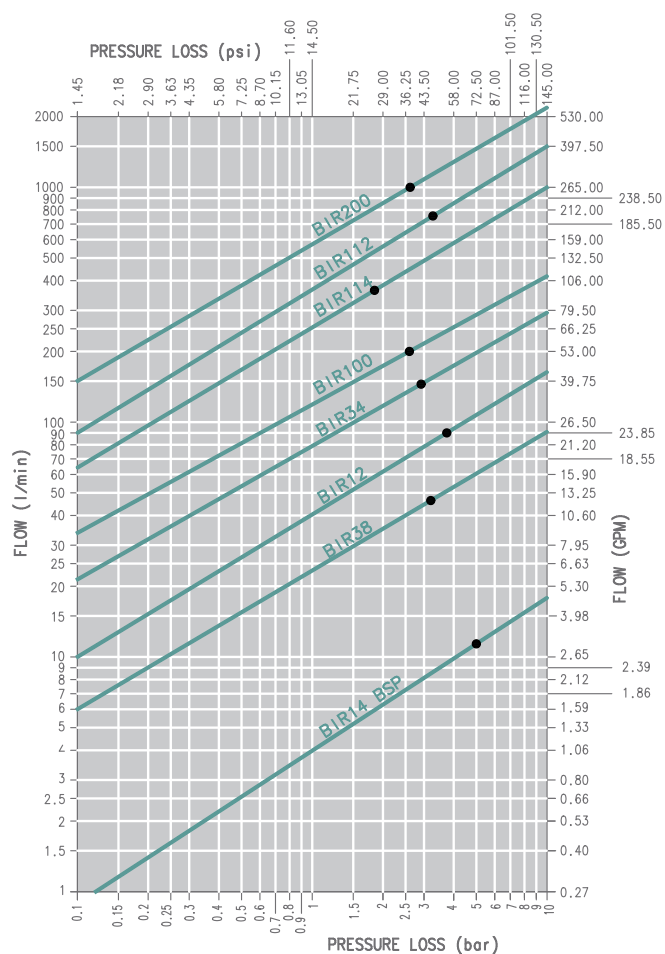
- Coupling Body: zinc plated steel
- Nipple is zinc-plated hardened steel
- Seals: Nitrile
- Anti-extrusion rings are Teflon
- NPT standard threads
- On request BSP threads & various seals
- Anti-dust plastic caps
- Clip provided auto shut nylon caps for BIR12 female coupler part available



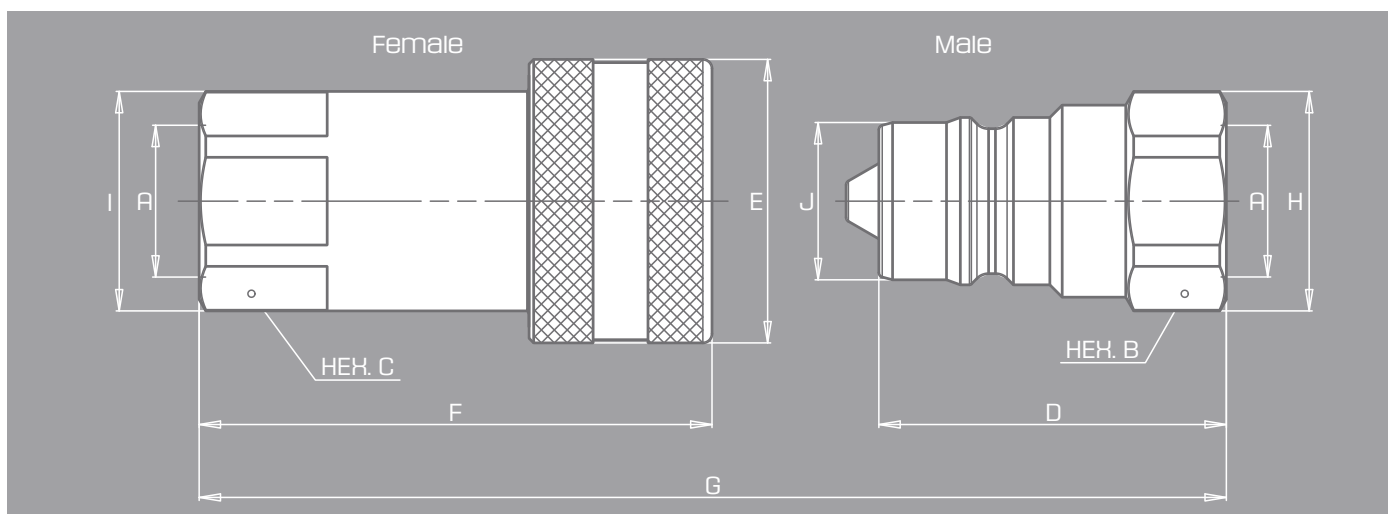


| DESCRIPTION | SIZE  | ISO SIZE | MAX. OPERATING<br>PRESSURE<br>COUPLED |      | BURST PRESSURE |       |      |       |        |       | SPILLAGE* |
|-------------|-------|----------|---------------------------------------|------|----------------|-------|------|-------|--------|-------|-----------|
|             |       |          |                                       |      | COUPLED        |       | MALE |       | FEMALE |       |           |
|             |       |          | MPa                                   | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |           |
| BIR14       | 1/4   | 6.3      | 35                                    | 5075 | 126            | 18270 | 126  | 18270 | 126    | 18270 | 0.70      |
| BIR38       | 3/8   | 10.0     | 30                                    | 4350 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 1.20      |
| BIR12       | 1/2   | 12.5     | 25                                    | 3625 | 80             | 11600 | 80   | 11600 | 100    | 14500 | 2.10      |
| BIR34       | 3/4   | 20.0     | 25                                    | 3625 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 5.20      |
| BIR100      | 1     | 25.0     | 23                                    | 3335 | 80             | 11600 | 80   | 11600 | 80     | 11600 | 9.00      |
| BIR114      | 1 1/4 | 31.5     | 23                                    | 3335 | 80             | 11600 | 80   | 11600 | 80     | 11600 | 27.00     |
| BIR112      | 1 1/2 | 40       | 18                                    | 2610 | 64             | 9280  | 64   | 9280  | 64     | 9280  | 49.00     |
| BIR200      | 2     | 50       | 13                                    | 1885 | 40             | 5800  | 40   | 5800  | 40     | 5800  | 75.00     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE



## Poppet: Interchange Coupling Size Diagram



| DESCRIPTION | BODY SIZE | A     | UNIT | B    | C    | D     | E     | F     | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-------|------|------|------|-------|-------|-------|-------|------|------|------|------|--------|--------|
|             |           |       |      |      |      |       |       |       |       |      |      |      |      | MALE   | FEMALE |
| BIR14       | 1/4       | 1/4   | mm   | 19.0 | 19.0 | 32.0  | 26.0  | 47.1  | 64.8  | 20.8 | 22.0 | 11.8 | Kg   | 0.033  | 0.094  |
|             |           |       | inch | 0.75 | 0.75 | 1.26  | 1.02  | 1.85  | 2.55  | 0.82 | 0.87 | 0.46 | lb   | 0.07   | 0.21   |
| BIR38       | 3/8       | 3/8   | mm   | 22.0 | 22.0 | 38.0  | 31.0  | 56.1  | 76.8  | 24.0 | 24.0 | 17.3 | Kg   | 0.053  | 0.145  |
|             |           |       | inch | 0.87 | 0.87 | 1.50  | 1.22  | 2.21  | 3.02  | 0.94 | 0.94 | 0.68 | lb   | 0.12   | 0.32   |
| BIR12       | 1/2       | 1/2   | mm   | 27.0 | 27.0 | 44.5  | 38.0  | 63.3  | 86.3  | 29.0 | 30.0 | 20.5 | Kg   | 0.084  | 0.245  |
|             |           |       | inch | 1.06 | 1.06 | 1.75  | 1.50  | 2.49  | 3.40  | 1.14 | 1.18 | 0.81 | lb   | 0.19   | 0.54   |
| BIR34       | 3/4       | 3/4   | mm   | 36.0 | 38.0 | 55.0  | 48.0  | 82.2  | 111.1 | 38.5 | 44.0 | 29.1 | Kg   | 0.210  | 0.502  |
|             |           |       | inch | 1.42 | 1.50 | 2.17  | 1.89  | 3.24  | 4.37  | 1.52 | 1.73 | 1.15 | lb   | 0.46   | 1.11   |
| BIR100      | 1         | 1     | mm   | 41.0 | 45.0 | 63.1  | 54.0  | 97.1  | 127.3 | 44.8 | 52.0 | 34.3 | Kg   | 0.284  | 0.772  |
|             |           |       | inch | 1.61 | 1.77 | 2.48  | 2.13  | 3.82  | 5.01  | 1.76 | 2.05 | 1.35 | lb   | 0.63   | 1.70   |
| BIR114      | 1 1/4     | 1 1/4 | mm   | 55.0 | 50.0 | 75.0  | 65.0  | 117.2 | 151.2 | 60.0 | 55.5 | 45.0 | Kg   | 0.615  | 1.244  |
|             |           |       | inch | 2.17 | 1.97 | 2.95  | 2.56  | 4.61  | 5.95  | 2.36 | 2.19 | 1.77 | lb   | 1.36   | 2.74   |
| BIR112      | 1 1/2     | 1 1/2 | mm   | 60.0 | 60.0 | 85.0  | 80.0  | 135.3 | 171.3 | 65.5 | 65.5 | 55.0 | Kg   | 0.878  | 2.130  |
|             |           |       | inch | 2.36 | 2.36 | 3.35  | 3.15  | 5.33  | 6.74  | 2.58 | 2.58 | 2.17 | lb   | 1.94   | 4.70   |
| BIR200      | 2         | 2     | mm   | 75.0 | 75.0 | 100.0 | 100.0 | 160.2 | 201.2 | 82.5 | 83.7 | 65.0 | Kg   | 1.440  | 4.130  |
|             |           |       | inch | 2.95 | 2.95 | 3.94  | 3.94  | 6.31  | 7.92  | 3.25 | 3.30 | 2.56 | lb   | 3.17   | 9.10   |



## BIR NPT Thread\_Poppet Style Interchange Coupling

| PART                          | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION  |
|-------------------------------|-----------|-----------|-------------|------------|-------------------|
| <b>BIR NPT THREAD</b>         |           |           |             |            |                   |
| COUPLER                       | 1/4       | 1/4       | NPT         | 800501000  | F. BIR 14 NPT     |
| NIPPLE                        | 1/4       | 1/4       | NPT         | 800501001  | M. BIR 14 NPT     |
| COUPLER                       | 3/8       | 3/8       | NPT         | 800501002  | F. BIR 38 NPT     |
| NIPPLE                        | 3/8       | 3/8       | NPT         | 800501003  | M. BIR 38 NPT     |
| COUPLER                       | 1/2       | 1/2       | NPT         | 800501004  | F. BIR 12 NPT     |
| NIPPLE                        | 1/2       | 1/2       | NPT         | 800501005  | M. BIR 12 NPT     |
| COUPLER                       | 3/4       | 3/4       | NPT         | 800501006  | F. BIR 34 NPT     |
| NIPPLE                        | 3/4       | 3/4       | NPT         | 800501007  | M. BIR 34 NPT     |
| COUPLER                       | 1         | 1         | NPT         | 800501008  | F. BIR 100 NPT    |
| NIPPLE                        | 1         | 1         | NPT         | 800501009  | M. BIR 100 NPT    |
| COUPLER                       | 1 1/4     | 1 1/4     | NPT         | 800501010  | F. BIR 114 NPT    |
| NIPPLE                        | 1 1/4     | 1 1/4     | NPT         | 800501011  | M. BIR 114 NPT    |
| COUPLER                       | 1 1/2     | 1 1/2     | NPT         | 800501012  | F. BIR 112 NPT    |
| NIPPLE                        | 1 1/2     | 1 1/2     | NPT         | 800501013  | M. BIR 112 NPT    |
| COUPLER                       | 2         | 2         | NPT         | 800501014  | F. BIR 200 NPT    |
| NIPPLE                        | 2         | 2         | NPT         | 800501015  | M. BIR 200 NPT    |
| <b>BIR SAE THREAD</b>         |           |           |             |            |                   |
| COUPLER                       | 1/2       | 1/2       | SAE         | 800504004  | F. BIR 12 SAE     |
| NIPPLE                        | 1/2       | 1/2       | SAE         | 800504005  | M. BIR 12 SAE     |
| COUPLER                       | 3/4       | 3/4       | SAE         | 800504006  | F. BIR 34 SAE     |
| NIPPLE                        | 3/4       | 3/4       | SAE         | 800504007  | M. BIR 34 SAE     |
| COUPLER                       | 1         | 1         | SAE         | 800504008  | F. BIR 100 SAE    |
| NIPPLE                        | 1         | 1         | SAE         | 800504009  | M. BIR 100 SAE    |
| <b>BIR NPT THREAD - 12 PC</b> |           |           |             |            |                   |
| COUPLER                       | 1/2       | 1/2       | NPT         | 805601000  | F. BIR 12 PC NPT* |
| NIPPLE                        | 1/2       | 1/2       | NPT         | 805601001  | M. BIR 12 PC NPT* |
| <b>BIR SAE THREAD - 12 PC</b> |           |           |             |            |                   |
| COUPLER                       | 1/2       | 1/2       | SAE         | 805604000  | F. BIR 12 PC SAE* |
| NIPPLE                        | 1/2       | 1/2       | SAE         | 805604001  | M. BIR 12 PC SAE* |



COUPLER



NIPPLE



\* CONNECT UNDER RESIDUAL PRESSURE POPPET VALVE

# ISO A Interchange Couplings

## Push Pull Mount



## Poppet: Interchange Coupling

### Series: I-IP

**Interchange:** Faster CPV – CNV, Parker 4200

I-IP series is an extension of the ISO A style couplings and is one of the most popular designs worldwide used in agricultural, mobile equipment, and some industrial applications. The IP series is the ISO A interchange coupler with a push pull mounting feature. The I series is the nipple with a modular port design to allow for a range of port options. The Stucchi range is 1/4 thru 1 inch, with port options of NPT, SAE, BSP and DIN.

### Technical Characteristics

- Connection: pushing the male coupling
- Disconnection: pulling the male coupling
- Shut-off system: poppet valve
- Connectability: without pressure
- Panel mounting by the sleeve
- Suitable for flexible hose connections
- Breakaway feature (if panel mounted)

### Applications & Features

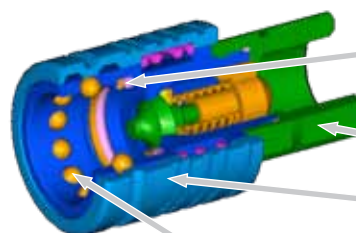
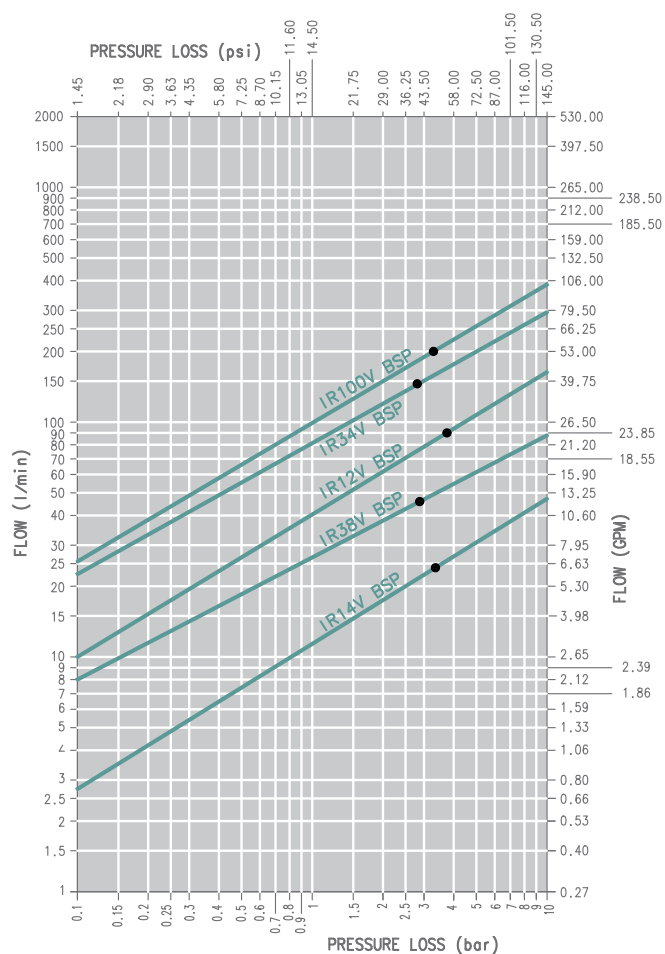
- Quick-release couplings mainly used in agriculture
- Push-Pull system makes connection and disconnection very easy
- Conformity to ISO 7241-1-A standards ensures worldwide interchangeability





| DESCRIPTION | SIZE | ISO SIZE | MAX. OPERATING PRESSURE COUPLED |      | SPILAGE * |
|-------------|------|----------|---------------------------------|------|-----------|
|             |      |          | MPa                             | psi  |           |
| I-IP14      | 1/4  | -        | 35                              | 5076 | 0.70      |
| I-IP38      | 3/8  | 10.0     | 31.5                            | 4568 | 1.20      |
| I-IP12      | 1/2  | 12.5     | 25                              | 3571 | 2.10      |
| I-IP34      | 3/4  | 20.0     | 25                              | 3571 | 5.20      |
| I-IP100     | 1    | 25.0     | 25                              | 3571 | 9         |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE

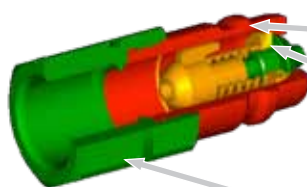


Anti-extrusion of PTFE to prevent premature wear of the o-ring

Modular design

Double-action sleeve to be mounted on the bulkhead that allows the coupling and uncoupling system with push/pull

High number of locking balls to reduce the brinelling effect



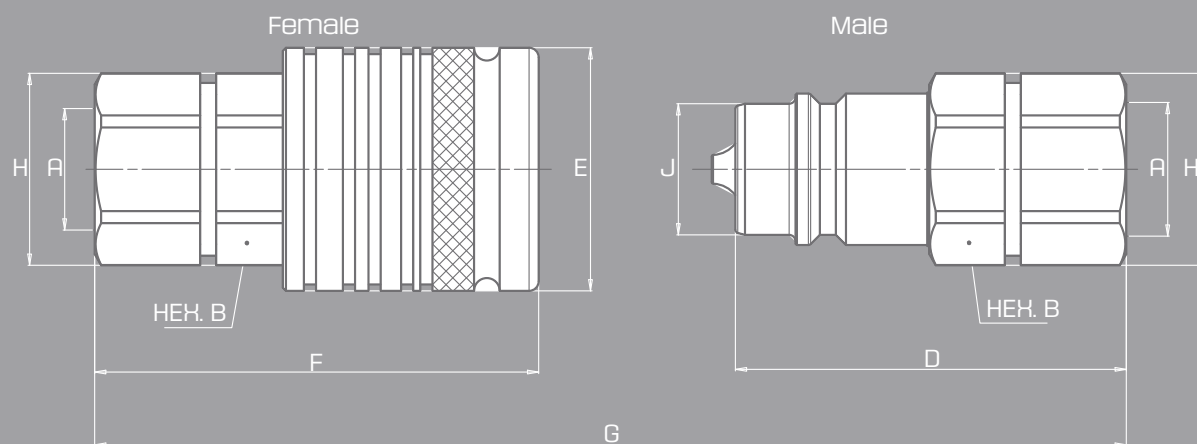
Hardened surface area to reduce the brinelling effect

Valve gasket squeezed to prevent extrusion at high flow rates

Modular design



### Poppet: Interchange Coupling Size Diagram



| DESCRIPTION | BODY SIZE | A   | DIMENSION | B    | D    | E    | F    | H    | I    |
|-------------|-----------|-----|-----------|------|------|------|------|------|------|
| IP38/I38    | 3/8       | 3/8 | mm        | 22   | 48.3 | 32   | 66.5 | 24   | 24   |
|             |           |     | inch      | 0.87 | 1.9  | 1.26 | 2.62 | 0.94 | 0.94 |
| IP12/I12    | 1/2       | 1/2 | mm        | 27   | 61.1 | 38   | 69.4 | 30   | 30   |
|             |           |     | inch      | 1.06 | 2.41 | 1.5  | 2.73 | 1.18 | 1.18 |
| IP34/I34    | 3/4       | 3/4 | mm        | 36   | 61   | 46   | 88   | 40   | 40   |
|             |           |     | inch      | 1.42 | 2.4  | 1.81 | 3.46 | 1.57 | 1.57 |
| IP100/I100  | 1         | 1   | mm        | 41   | 73   | 54   | 107  | 45   | 45   |
|             |           |     | inch      | 1.61 | 2.87 | 2.13 | 4.21 | 1.77 | 1.77 |



# I-IP BSP and NPT Thread\_Poppet Style Interchange Coupling

| PART                    | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION           |
|-------------------------|-----------|-----------|-------------|------------|----------------------------|
| I-IP BSP AND NPT THREAD |           |           |             |            |                            |
| COUPLER                 | 3/8       | 1/4       | BSP         | 809400008  | INN. F. IP38 1/4 BSP       |
| NIPPLE                  | 3/8       | 1/4       | BSP         | 809400009  | INN. M. I38 1/4 BSP        |
| COUPLER                 | 3/8       | 3/8       | BSP         | 809400010  | INN. F. IP38 3/8 BSP       |
| NIPPLE                  | 3/8       | 3/8       | BSP         | 809400011  | INN. M. I38 3/8 BSP        |
| COUPLER                 | 3/8       | 3/8       | MALE BSP    | 809400012  | F. IP38 3/8BSP EST DIN3852 |
| NIPPLE                  | 3/8       | 3/8       | MALE BSP    | 809400013  | M. I38 3/8 BSP EST DIN3852 |
| COUPLER                 | 1/2       | 1/2       | BSP         | 809400000  | F. IP12 1/2 BSP            |
| NIPPLE                  | 1/2       | 1/2       | BSP         | 809400001  | M. I12GS 1/2 BSP           |
| COUPLER                 | 1/2       | 1/2       | MALE BSP    | 809400002  | F. IP12 1/2 BSP EST        |
| NIPPLE                  | 1/2       | 1/2       | MALE BSP    | 809400003  | M. I12GS 1/2 BSP EST       |
| COUPLER                 | 1/2       | 3/8       | BSP         | 809400004  | F. IP12 3/8 BSP            |
| NIPPLE                  | 1/2       | 3/8       | BSP         | 809400005  | M. I12GS 3/8 BSP           |
| NIPPLE                  | 1/2       | 3/8       | MALE BSP    | 809400007  | M. I12GS 3/8 BSP EST       |
| COUPLER                 | 1/2       | 1/2       | NPT         | 809401000  | F. IP12 1/2 NPT            |
| NIPPLE                  | 1/2       | 1/2       | NPT         | 809401001  | M. I12GS 1/2 NPT           |
| COUPLER                 | 3/4       | 3/4       | BSP         | 809400014  | F. I34 3/4 BSP             |
| NIPPLE                  | 3/4       | 3/4       | BSP         | 809400015  | M. I34 3/4 BSP             |
| NIPPLE                  | 3/4       | 3/4       | NPT         | 809401003  | M. I34 3/4 NPT             |
| COUPLER                 | 1         | 3/4       | BSP         | 809400016  | INN. F. IP100 3/4 BSP      |
| NIPPLE                  | 1         | 3/4       | BSP         | 809400017  | INN. M. I100 3/4 BSP       |
| COUPLER                 | 1         | 1         | BSP         | 809400018  | INN. F. IP100 1 BSP        |
| NIPPLE                  | 1         | 1         | BSP         | 809400019  | INN. M. I100 1 BSP         |



COUPLER



NIPPLE

# ISO B Interchange Coupling



## Technical Characteristics:

- NPT standard threads
- Anti-extrusion rings are in pure Teflon (PTFE)
- Springs in AISI 302 stainless steel
- On request BSP threads and various seals

## Poppet: Interchange Coupling

Series: IRB | IRBX | IRBO

**Interchange:** ISO B

The series IRB quick couplings, are interchangeable to ISO 7241-1 series B. The series IRB most important characteristics are compactness, and highest quality raw material used in manufacturing.

**Interchange:** Parker 60, Aeroquip FD45, Faster HNV

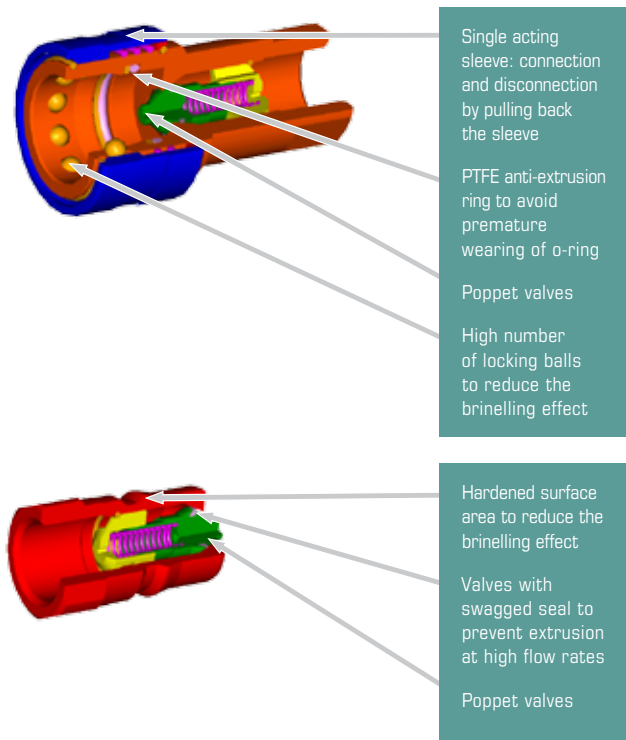
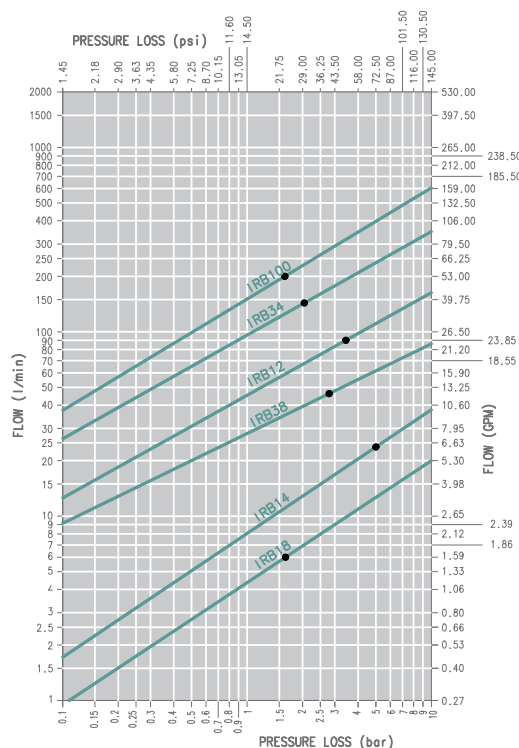
- IRB: carbon steel material with Nitrile seals
- IRBO: brass material with Viton seals
- IRBX: 316 stainless steel with Viton seals



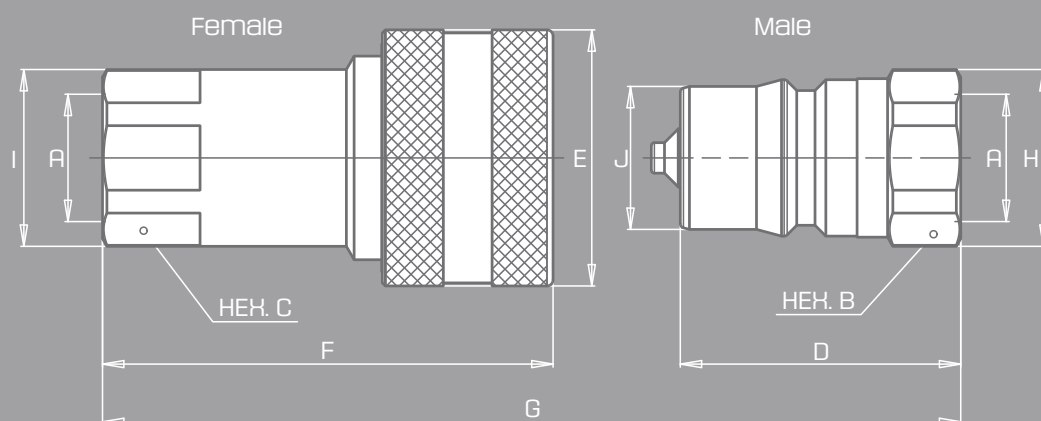


| DESCRIPTION              | SIZE | ISO SIZE | MAX. OPERATING<br>PRESSURE<br>COUPLED |      | BURST PRESSURE |       |      |       |        |       | SPILLAGE* |
|--------------------------|------|----------|---------------------------------------|------|----------------|-------|------|-------|--------|-------|-----------|
|                          |      |          |                                       |      | COUPLED        |       | MALE |       | FEMALE |       |           |
|                          |      |          | MPa                                   | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |           |
| IRB STEEL                |      |          |                                       |      |                |       |      |       |        |       |           |
| IRB18                    | 1/8  | 5.0      | 35                                    | 5075 | 120            | 17400 | 120  | 17400 | 120    | 17400 | 0.18      |
| IRB14                    | 1/4  | 6.3      | 35                                    | 5075 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.33      |
| IRB38                    | 3/8  | 10.0     | 30                                    | 4350 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 2.20      |
| IRB12                    | 1/2  | 12.5     | 28                                    | 4060 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 3.00      |
| IRB34                    | 3/4  | 20.0     | 23                                    | 4000 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 9.40      |
| IRB100                   | 1    | 25.0     | 18                                    | 4000 | 80             | 11600 | 80   | 11600 | 80     | 11600 | 14.00     |
| IRBX 316 STAINLESS STEEL |      |          |                                       |      |                |       |      |       |        |       |           |
| IRBX18                   | 1/8  | 5.0      | 25                                    | 3625 | 140            | 20300 | 140  | 20300 | 140    | 20300 | 0.18      |
| IRBX14                   | 1/4  | 6.3      | 25                                    | 3625 | 140            | 20300 | 140  | 20300 | 140    | 20300 | 0.33      |
| IRBX38                   | 3/8  | 10.0     | 20                                    | 2900 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 2.20      |
| IRBX12                   | 1/2  | 12.5     | 20                                    | 2900 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 3.00      |
| IRBX34                   | 3/4  | 20.0     | 16                                    | 2320 | 80             | 11600 | 80   | 11600 | 80     | 11600 | 9.40      |
| IRBX100                  | 1    | 25.0     | 12,5                                  | 1813 | 60             | 8700  | 60   | 8700  | 60     | 8700  | 14.00     |
| IRBO BRASS               |      |          |                                       |      |                |       |      |       |        |       |           |
| IRBO18                   | 1/8  | 5.0      | 20                                    | 2900 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.18      |
| IRBO14                   | 1/4  | 6.3      | 20                                    | 2900 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.33      |
| IRBO38                   | 3/8  | 10.0     | 16                                    | 2320 | 80             | 11600 | 70   | 10150 | 80     | 11600 | 2.20      |
| IRBO12                   | 1/2  | 12.5     | 16                                    | 2320 | 80             | 11600 | 70   | 10150 | 80     | 11600 | 3.00      |
| IRBO34                   | 3/4  | 20.0     | 12,5                                  | 1813 | 60             | 8700  | 45   | 6525  | 60     | 8700  | 9.40      |
| IRBO100                  | 1    | 25.0     | 10                                    | 1450 | 40             | 5800  | 40   | 5800  | 40     | 5800  | 14.00     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE



## Poppet: Interchange Coupling Size Diagram



| DESCRIPTION | BODY SIZE | A   | UNIT | B    | C    | D    | E    | F     | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-----|------|------|------|------|------|-------|-------|------|------|------|------|--------|--------|
|             |           |     |      |      |      |      |      |       |       |      |      |      |      | MALE   | FEMALE |
| IRB18       | 1/8       | 1/8 | mm   | 14.0 | 14.0 | 30.0 | 23.0 | 48.8  | 60.5  | 15.8 | 15.8 | 10.8 | Kg   | 0.018  | 0.068  |
|             |           |     | inch | 0.55 | 0.55 | 1.18 | 0.91 | 1.92  | 2.38  | 0.62 | 0.62 | 0.43 | lb   | 0.04   | 0.15   |
| IRB14       | 1/4       | 1/4 | mm   | 19.0 | 19.0 | 35.0 | 27.0 | 57.0  | 70.7  | 20.8 | 21.2 | 14.2 | Kg   | 0.035  | 0.120  |
|             |           |     | inch | 0.75 | 0.75 | 1.38 | 1.06 | 2.24  | 2.78  | 0.82 | 0.83 | 0.56 | lb   | 0.08   | 0.26   |
| IRB38       | 3/8       | 3/8 | mm   | 24.0 | 24.0 | 41.0 | 34.0 | 66.0  | 82.7  | 26.0 | 27.0 | 19.1 | Kg   | 0.068  | 0.220  |
|             |           |     | inch | 0.94 | 0.94 | 1.61 | 1.34 | 2.60  | 3.26  | 1.02 | 1.06 | 0.75 | lb   | 0.15   | 0.49   |
| IRB12       | 1/2       | 1/2 | mm   | 27.0 | 27.0 | 46.0 | 42.0 | 73.9  | 92.6  | 29.0 | 29.0 | 23.5 | Kg   | 0.102  | 0.323  |
|             |           |     | inch | 1.06 | 1.06 | 1.81 | 1.65 | 2.91  | 3.65  | 1.14 | 1.14 | 0.93 | lb   | 0.22   | 0.71   |
| IRB34       | 3/4       | 3/4 | mm   | 36.0 | 36.0 | 55.0 | 50.0 | 90.1  | 111.1 | 38.5 | 38.5 | 31.4 | Kg   | 0.203  | 0.562  |
|             |           |     | inch | 1.42 | 1.42 | 2.17 | 1.97 | 3.55  | 4.37  | 1.52 | 1.52 | 1.24 | lb   | 0.45   | 1.24   |
| IRB100      | 1         | 1   | mm   | 41.0 | 41.0 | 66.0 | 60.0 | 106.2 | 133.2 | 44.8 | 44.8 | 37.7 | Kg   | 0.328  | 0.863  |
|             |           |     | inch | 1.61 | 1.61 | 2.60 | 2.36 | 4.18  | 5.24  | 1.76 | 1.76 | 1.48 | lb   | 0.72   | 1.90   |



## IRB NPT and SAE Thread\_Poppet Style Interchange Coupling | Steel

| PART                  | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION    |
|-----------------------|-----------|-----------|-------------|------------|---------------------|
| <b>IRB NPT THREAD</b> |           |           |             |            |                     |
| COUPLER               | 1/8       | 1/8       | NPT         | 800601000  | F. IRB 18 NPT       |
| NIPPLE                | 1/8       | 1/8       | NPT         | 800601001  | M. IRB 18 NPT       |
| COUPLER               | 1/4       | 1/4       | NPT         | 800601002  | F. IRB 14 NPT       |
| NIPPLE                | 1/4       | 1/4       | NPT         | 800601003  | M. IRB 14 NPT       |
| COUPLER               | 3/8       | 3/8       | NPT         | 800601004  | F. IRB 38 NPT       |
| NIPPLE                | 3/8       | 3/8       | NPT         | 800601005  | M. IRB 38 NPT       |
| COUPLER               | 1/2       | 1/2       | NPT         | 800601006  | F. IRB 12 NPT       |
| NIPPLE                | 1/2       | 1/2       | NPT         | 800601007  | M. IRB 12 NPT       |
| COUPLER               | 3/4       | 3/4       | NPT         | 800601008  | F. IRB 34 NPT       |
| NIPPLE                | 3/4       | 3/4       | NPT         | 800601009  | M. IRB 34 NPT       |
| COUPLER               | 1         | 1         | NPT         | 800601010  | F. IRB 100 NPT      |
| NIPPLE                | 1         | 1         | NPT         | 800601011  | M. IRB 100 NPT      |
| <b>IRB SAE THREAD</b> |           |           |             |            |                     |
| COUPLER               | 1/4       | 3/8       | SAE         | 800604202  | F. IRBS 14E 3/8 SAE |
| NIPPLE                | 1/4       | 3/8       | SAE         | 800604201  | M. IRB 14E 3/8 SAE  |



COUPLER



NIPPLE

## IRBO NPT Thread\_Poppet Style Interchange Coupling | Brass

| PART                   | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|------------------------|-----------|-----------|-------------|------------|------------------|
| <b>IRBO NPT THREAD</b> |           |           |             |            |                  |
| COUPLER                | 1/8       | 1/8       | NPT         | 804501100  | F. IRBOV 18 NPT  |
| NIPPLE                 | 1/8       | 1/8       | NPT         | 804501101  | M. IRBOV 18 NPT  |
| COUPLER                | 1/4       | 1/4       | NPT         | 804501102  | F. IRBOV 14 NPT  |
| NIPPLE                 | 1/4       | 1/4       | NPT         | 804501103  | M. IRBOV 14 NPT  |
| COUPLER                | 3/8       | 3/8       | NPT         | 804501104  | F. IRBOV 38 NPT  |
| NIPPLE                 | 3/8       | 3/8       | NPT         | 804501105  | M. IRBOV 38 NPT  |
| COUPLER                | 1/2       | 1/2       | NPT         | 804501106  | F. IRBOV 12 NPT  |
| NIPPLE                 | 1/2       | 1/2       | NPT         | 804501107  | M. IRBOV 12 NPT  |
| COUPLER                | 3/4       | 3/4       | NPT         | 804501108  | F. IRBOV 34 NPT  |
| NIPPLE                 | 3/4       | 3/4       | NPT         | 804501109  | M. IRBOV 34 NPT  |
| COUPLER                | 1         | 1         | NPT         | 804501110  | F. IRBOV 100 NPT |
| NIPPLE                 | 1         | 1         | NPT         | 804501111  | M. IRBOV 100 NPT |



COUPLER



NIPPLE



# ISO B Interchange Coupling



COUPLER



NIPPLE

## IRBX NPT Thread\_Poppet Style Interchange Coupling | Stainless Steel

| PART            | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|-----------------|-----------|-----------|-------------|------------|------------------|
| IRBX NPT THREAD |           |           |             |            |                  |
| COUPLER         | 1/8       | 1/8       | NPT         | 804601100  | F. IRBX 18 NPT   |
| NIPPLE          | 1/8       | 1/8       | NPT         | 804601101  | M. IRBX 18 NPT   |
| COUPLER         | 1/4       | 1/4       | NPT         | 804601102  | F. IRBX 14 NPT   |
| NIPPLE          | 1/4       | 1/4       | NPT         | 804601103  | M. IRBX 14 NPT   |
| COUPLER         | 3/8       | 3/8       | NPT         | 804601104  | F. IRBX 38 NPT   |
| NIPPLE          | 3/8       | 3/8       | NPT         | 804601105  | M. IRBX 38 NPT   |
| COUPLER         | 1/2       | 1/2       | NPT         | 804601106  | F. IRBX 12 NPT   |
| NIPPLE          | 1/2       | 1/2       | NPT         | 804601107  | M. IRBX 12 NPT   |
| COUPLER         | 3/4       | 3/4       | NPT         | 804601108  | F. IRBX 34 NPT   |
| NIPPLE          | 3/4       | 3/4       | NPT         | 804601109  | M. IRBX 34 NPT   |
| COUPLER         | 1         | 1         | NPT         | 804601110  | F. IRBX 100 NPT  |
| NIPPLE          | 1         | 1         | NPT         | 804601111  | M. IRBX 100 NPT  |

AVAILABLE WITHOUT VALVE UPON REQUEST



## Poppet: Interchange Coupling

**Series:** IR | IRV | IRS

**Interchange:** Agriculture/ISO 5675

The series IR, IR/V hydraulic quick couplings equipped with ball or poppet sealing valve are mostly applied in agricultural equipment; interchangeable according to ISO 5675. Size 12.5 is in accordance with ISO 7241-1 series "A".

- IR: ball seal valve
- IRV: poppet seal valve
- IRS: push pull coupling
- IRS PC: push pull sleeve connectable under residual pressure

### Overview

Stucchi Agriculture Series are offered with a choice of either ball or poppet valve mechanisms for automatic shut-off during disconnection. The ball mechanism is the IR series, the poppet mechanism is the IRV series. The IR series are mainly for applications where interchangeability with existing equipment is necessary. For new applications poppet valves or flat face are recommended.

### Technical Characteristics & Options

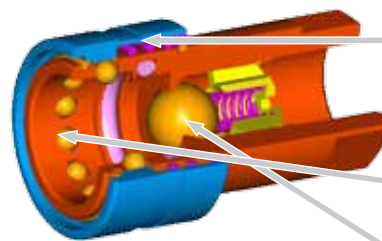
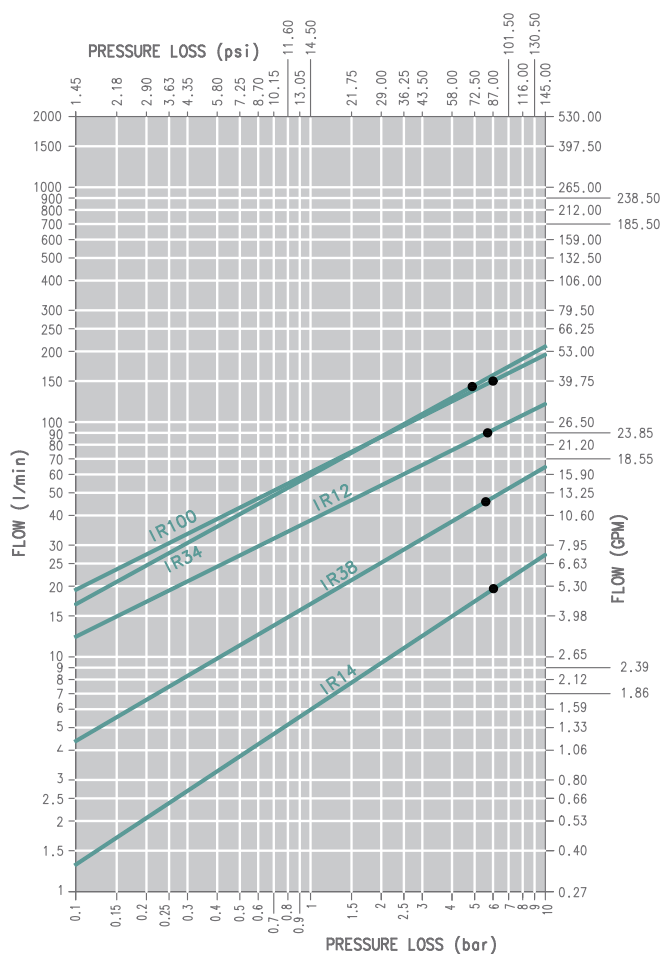
- Coupling constructed in carbon steel with zinc plating
- Nipple made with hardened steel
- Standard seals are Nitrile
- NPT standard threads
- On request SAE, BSP threads
- Anti-dust plastic caps
- Clip provided Nylon caps for IR12 female part



# Agriculture Interchange Coupling

| DESCRIPTION | SIZE | ISO SIZE | MAX. OPERATING<br>PRESSURE<br>COUPLED |      | BURST PRESSURE |       |      |       |        |       | SPILLAGE* |
|-------------|------|----------|---------------------------------------|------|----------------|-------|------|-------|--------|-------|-----------|
|             |      |          |                                       |      | COUPLED        |       | MALE |       | FEMALE |       |           |
|             |      |          | MPa                                   | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |           |
| IR14        | 1/4  | -        | 30                                    | 4350 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.13      |
| IR38        | 3/8  | -        | 30                                    | 4350 | 100            | 14500 | 100  | 14500 | 90     | 13050 | 0.45      |
| IR12        | 1/2  | 12.5     | 25                                    | 3625 | 80             | 11600 | 55   | 7975  | 55     | 7975  | 2.30      |
| IR34        | 3/4  | -        | 25                                    | 3625 | 100            | 14500 | 60   | 8700  | 90     | 13050 | 4.50      |
| IR100       | 1    | -        | 20                                    | 2900 | 80             | 11600 | 60   | 8700  | 80     | 11600 | 6.00      |

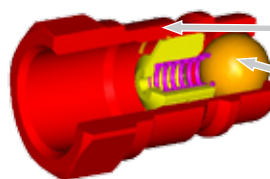
\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE.



Single acting sleeve: connection and disconnection by pulling back the sleeve

High number of locking balls to reduce the brinelling effect

Ball valves

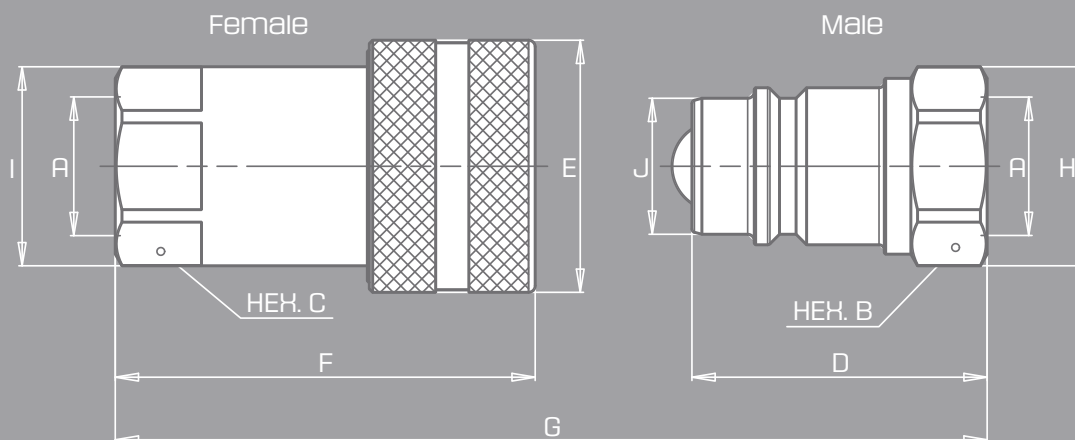


Hardened surface area to reduce the brinelling effect

Ball valves



## Poppet: Interchange Coupling Size Diagram

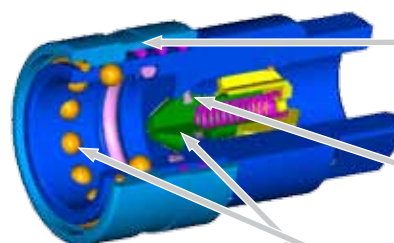
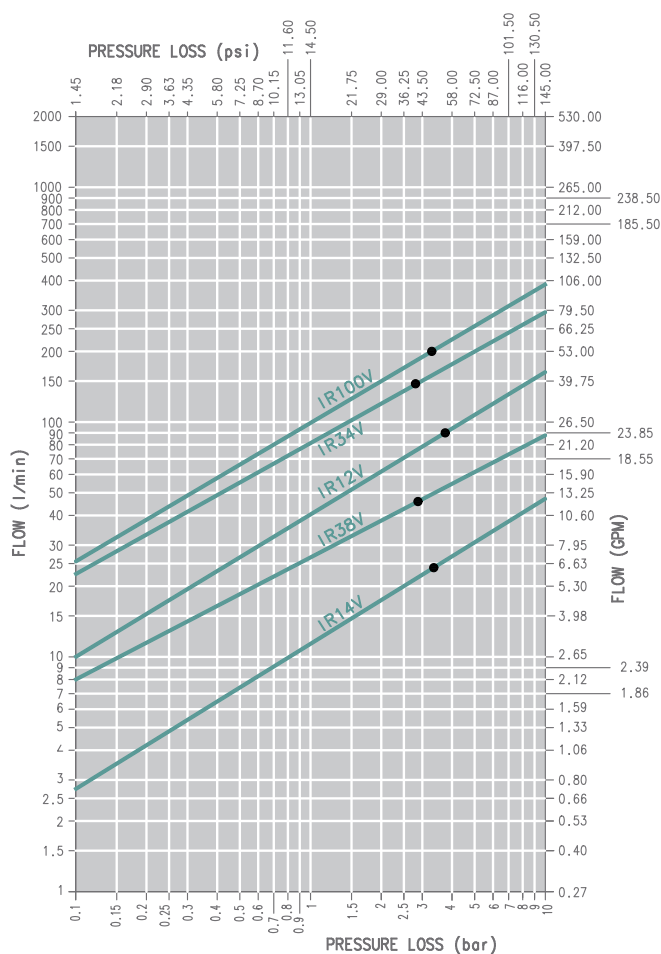


| DESCRIPTION | BODY SIZE | A   | UNIT | B    | C    | D    | E    | F    | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-----|------|------|------|------|------|------|-------|------|------|------|------|--------|--------|
|             |           |     |      |      |      |      |      |      |       |      |      |      |      | MALE   | FEMALE |
| IR14        | 1/4       | 1/4 | mm   | 19.0 | 19.0 | 32.5 | 27.0 | 48.9 | 64.4  | 22.0 | 21.0 | 14.2 | Kg   | 0.040  | 0.125  |
|             |           |     | inch | 0.75 | 0.75 | 1.28 | 1.06 | 1.93 | 2.54  | 0.87 | 0.83 | 0.56 | lb   | 0.09   | 0.28   |
| IR38        | 3/8       | 3/8 | mm   | 24.0 | 24.0 | 38.0 | 34.0 | 58.3 | 76.3  | 27.7 | 26.5 | 19.0 | Kg   | 0.080  | 0.222  |
|             |           |     | inch | 0.94 | 0.94 | 1.50 | 1.34 | 2.30 | 3.00  | 1.09 | 1.04 | 0.75 | lb   | 0.18   | 0.49   |
| IR12        | 1/2       | 1/2 | mm   | 27.0 | 27.0 | 44.5 | 38.0 | 63.3 | 86.3  | 30.0 | 30.0 | 20.5 | Kg   | 0.090  | 0.277  |
|             |           |     | inch | 1.06 | 1.06 | 1.75 | 1.50 | 2.49 | 3.40  | 1.18 | 1.18 | 0.81 | lb   | 0.20   | 0.61   |
| IR34        | 3/4       | 3/4 | mm   | 36.0 | 38.0 | 59.0 | 48.0 | 90.3 | 118.3 | 38.5 | 43.0 | 26.9 | Kg   | 0.211  | 0.699  |
|             |           |     | inch | 1.42 | 1.50 | 2.32 | 1.89 | 3.56 | 4.66  | 1.52 | 1.69 | 1.06 | lb   | 0.47   | 1.54   |
| IR100       | 1         | 1   | mm   | 41.0 | 45.0 | 66.1 | 54.0 | 99.6 | 132.8 | 44.8 | 52.0 | 31.4 | Kg   | 0.301  | 0.894  |
|             |           |     | inch | 1.61 | 1.77 | 2.60 | 2.13 | 3.92 | 5.23  | 1.76 | 2.05 | 1.24 | lb   | 0.66   | 1.97   |

# Agriculture Interchange Coupling

| DESCRIPTION | SIZE | ISO SIZE | MAX. OPERATING<br>PRESSURE<br>COUPLED |      | BURST PRESSURE |       |      |       |        |       | SPILLAGE* |
|-------------|------|----------|---------------------------------------|------|----------------|-------|------|-------|--------|-------|-----------|
|             |      |          |                                       |      | COUPLED        |       | MALE |       | FEMALE |       |           |
|             |      |          | MPa                                   | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |           |
| IR14V       | 1/4  | -        | 30                                    | 4350 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 0.33      |
| IR38V       | 3/8  | -        | 30                                    | 4350 | 100            | 14500 | 100  | 14500 | 100    | 14500 | 1.30      |
| BIR12       | 1/2  | 12.5     | 25                                    | 3625 | 80             | 11600 | 80   | 11600 | 100    | 14500 | 2.10      |
| IR34V       | 3/4  | -        | 25                                    | 3625 | 100            | 14500 | 90   | 13050 | 100    | 14500 | 4.20      |
| IR100V      | 1    | -        | 20                                    | 2900 | 80             | 11600 | 80   | 11600 | 80     | 11600 | 5.50      |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE.

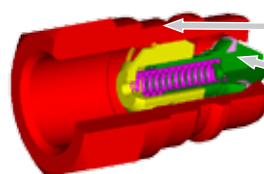


Single acting sleeve: connection and disconnection by pulling back the sleeve

Valves with swagged seal to prevent extrusion at high flow rates

High number of locking balls to reduce the brinelling effect

Poppet valves

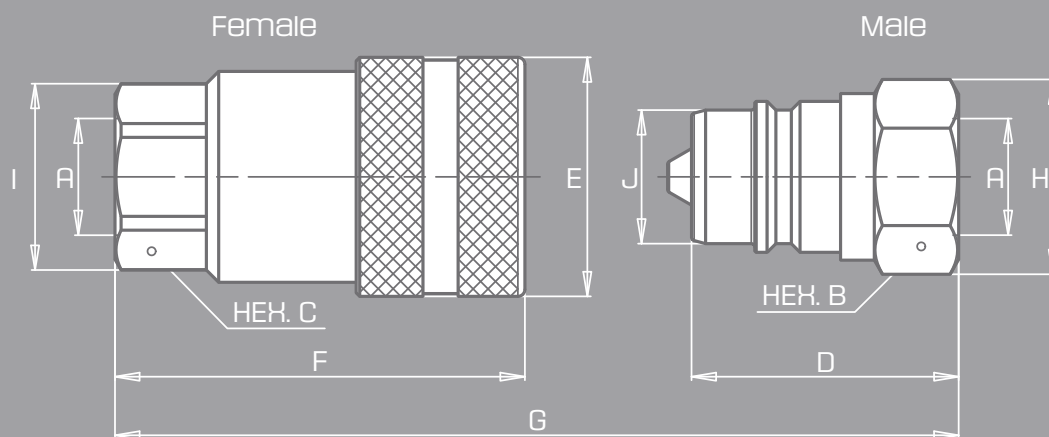


Hardened surface area to reduce the brinelling effect

Poppet valves



## Poppet: Interchange Coupling Size Diagram



| DESCRIPTION | BODY SIZE | A   | UNIT | B    | C    | D    | E    | F    | G     | H    | I    | J    | UNIT | WEIGHT |        |
|-------------|-----------|-----|------|------|------|------|------|------|-------|------|------|------|------|--------|--------|
|             |           |     |      |      |      |      |      |      |       |      |      |      |      | MALE   | FEMALE |
| IR14V       | 1/4       | 1/4 | mm   | 19.0 | 19.0 | 32.5 | 27.0 | 50.4 | 65.9  | 22.0 | 21.0 | 14.2 | Kg   | 0.040  | 0.125  |
|             |           |     | inch | 0.75 | 0.75 | 1.28 | 1.06 | 1.98 | 2.59  | 0.87 | 0.83 | 0.56 | lb   | 0.09   | 0.28   |
| IR38V       | 3/8       | 3/8 | mm   | 24.0 | 24.0 | 38.0 | 34.0 | 58.3 | 76.3  | 27.7 | 26.5 | 19.0 | Kg   | 0.080  | 0.222  |
|             |           |     | inch | 0.94 | 0.94 | 1.50 | 1.34 | 2.30 | 3.00  | 1.09 | 1.04 | 0.75 | lb   | 0.18   | 0.49   |
| BIR12       | 1/2       | 1/2 | mm   | 27.0 | 27.0 | 44.5 | 38.0 | 63.3 | 86.3  | 29.0 | 30.0 | 20.5 | Kg   | 0.084  | 0.245  |
|             |           |     | inch | 1.06 | 1.06 | 1.75 | 1.50 | 2.49 | 3.40  | 1.14 | 1.18 | 0.81 | lb   | 0.19   | 0.54   |
| IR34V       | 3/4       | 3/4 | mm   | 36.0 | 38.0 | 59.0 | 48.0 | 90.3 | 118.3 | 38.5 | 43.0 | 26.9 | Kg   | 0.187  | 0.663  |
|             |           |     | inch | 1.42 | 1.50 | 2.32 | 1.89 | 3.56 | 4.66  | 1.52 | 1.69 | 1.06 | lb   | 0.41   | 1.46   |
| IR100V      | 1         | 1   | mm   | 41.0 | 45.0 | 64.1 | 54.0 | 97.6 | 128.8 | 44.8 | 52.0 | 31.4 | Kg   | 0.276  | 0.860  |
|             |           |     | inch | 1.61 | 1.77 | 2.52 | 2.13 | 3.84 | 5.07  | 1.76 | 2.05 | 1.24 | lb   | 0.61   | 1.90   |





COUPLER



NIPPLE

## IRV NPT and SAE Thread\_Poppet Style Interchange Coupling

| PART           | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION  |
|----------------|-----------|-----------|-------------|------------|-------------------|
| IRV NPT THREAD |           |           |             |            |                   |
| COUPLER        | 1/4       | 1/4       | NPT         | 800101000  | F. IR 14V NPT     |
| NIPPLE         | 1/4       | 1/4       | NPT         | 800101001  | M. IR 14V NPT     |
| COUPLER        | 3/8       | 3/8       | NPT         | 800101002  | F. IR 38V NPT     |
| NIPPLE         | 3/8       | 3/8       | NPT         | 800101003  | M. IR 38V NPT     |
| COUPLER        | 1/2       | 1/2       | NPT         | 800501004  | F. BIR 12 NPT     |
| NIPPLE         | 1/2       | 1/2       | NPT         | 800501005  | M.BIR 12 NPT      |
| COUPLER        | 3/4       | 3/4       | NPT         | 800101004  | F. IR 34V NPT     |
| NIPPLE         | 3/4       | 3/4       | NPT         | 800101005  | M. IR 34V NPT     |
| COUPLER        | 1         | 1         | NPT         | 800101006  | F. IR 100V NPT    |
| NIPPLE         | 1         | 1         | NPT         | 800101007  | M. IR 100V NPT    |
| COUPLER        | 3/4       | 3/4       | NPT         | 820001022  | F. IR 34V FA NPT* |
| NIPPLE         | 3/4       | 3/4       | NPT         | 820001023  | M. IR 34V FA NPT* |
| IRV SAE THREAD |           |           |             |            |                   |
| COUPLER        | 1/4       | 3/8       | SAE         | 800104000  | F. IR 14V 38 SAE  |
| NIPPLE         | 1/4       | 3/8       | SAE         | 800104001  | M. IR 14V 38 SAE  |

\* FASTER INTERCHANGE ONLY

## IRS V\_Poppet Valve | Agricultural Push/Pull Sleeve

| PART                     | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|--------------------------|-----------|-----------|-------------|------------|------------------|
| IRS V NPT AND SAE THREAD |           |           |             |            |                  |
| COUPLER                  | 1/2       | 1/2       | NPT         | 800401002  | F. IRS 12VA NPT  |
| COUPLER                  | 1/2       | 1/2       | SAE         | 804304004  | F. I 12VA SAE    |

## IRS PC\_Poppet Valve | Agricultural Push/Pull Sleeve | Connect Under Pressure

| PART                      | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION   |
|---------------------------|-----------|-----------|-------------|------------|--------------------|
| IRS PC NPT AND SAE THREAD |           |           |             |            |                    |
| COUPLER                   | 1/2       | 1/2       | NPT         | 800401004  | F. IRS 12VA PC NPT |
| COUPLER                   | 1/2       | 1/2       | SAE         | 804304002  | F. I 12VA PC SAE   |



COUPLER



### IR Ball Valve NPT Thread\_Poppet Style Interchange Coupling

| PART                     | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|--------------------------|-----------|-----------|-------------|------------|------------------|
| IR BALL VALVE NPT THREAD |           |           |             |            |                  |
| COUPLER                  | 1/4       | 1/4       | NPT         | 800001000  | F. IR 14 NPT     |
| NIPPLE                   | 1/4       | 1/4       | NPT         | 800001001  | M. IR 14 NPT     |
| COUPLER                  | 3/8       | 3/8       | NPT         | 800001002  | F. IR 38 NPT     |
| NIPPLE                   | 3/8       | 3/8       | NPT         | 800001003  | M. IR 38 NPT     |
| COUPLER                  | 1/2       | 1/2       | NPT         | 800001004  | F. IR 12 NPT     |
| NIPPLE                   | 1/2       | 1/2       | NPT         | 800001005  | M. IR 12 NPT     |
| COUPLER                  | 3/4       | 3/4       | NPT         | 800001006  | F. IR 34 NPT     |
| NIPPLE                   | 3/4       | 3/4       | NPT         | 800001007  | M. IR 34 NPT     |
| COUPLER                  | 1         | 1         | NPT         | 800001008  | F. IR 100 NPT    |
| NIPPLE                   | 1         | 1         | NPT         | 800001009  | M. IR 100 NPT    |
| COUPLER                  | 3/4       | 3/4       | NPT         | 820001020  | F. IR 34 FA NPT* |
| NIPPLE                   | 3/4       | 3/4       | NPT         | 820001021  | M. IR 34 FA NPT* |

\* FASTER INTERCHANGE ONLY



COUPLER



NIPPLE

### IR TIC Ball Valve NPT Thread\_Agricultural Nipple with Seal Retainer

| PART                         | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|------------------------------|-----------|-----------|-------------|------------|------------------|
| IR TIC BALL VALVE NPT THREAD |           |           |             |            |                  |
| NIPPLE                       | 1/2       | 1/2       | NPT         | 800001011  | M. IR 12 TIC NPT |



NIPPLE

### IRS Ball Valve NPT Thread\_Agricultural Push/Pull Sleeve

| PART                      | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|---------------------------|-----------|-----------|-------------|------------|------------------|
| IRS BALL VALVE NPT THREAD |           |           |             |            |                  |
| COUPLER                   | 1/2       | 1/2       | NPT         | 800301002  | F. IRS 12A NPT   |



COUPLER

# Wing Style Interchange Coupling



## Misc: Interchange Coupling

### Series: W

**Interchange:** Parker 6100

- Seals: Nitrile
- Threaded sleeve allows connection/disconnection under pressure
- Coupler: brass material
- Wing: cast steel
- Nipple: brass material

| NOMINAL SIZE | RATED FLOW AT 50<br>PSI PRESSURE DROP | BURST PRESSURE | MAX WORKING<br>PRESSURE | MAX WORKING<br>PRESSURE |
|--------------|---------------------------------------|----------------|-------------------------|-------------------------|
| inch         | gpm                                   | psi            | bar                     | psi                     |
| 3/4          | 35                                    | 9000           | 207                     | 3000                    |
| 1            | 55                                    | 9000           | 207                     | 3000                    |
| 1 1/4        | 80                                    | 8250           | 190                     | 2750                    |
| 1 1/2        | 110                                   | 7500           | 172                     | 2500                    |

### W NPT Thread\_Wing Style Thread to Connect

| PART         | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|--------------|-----------|-----------|-------------|------------|------------------|
| W NPT THREAD |           |           |             |            |                  |
| COUPLER      | 3/4       | 3/4       | NPT         | 100610012  | F. W6F6-B        |
| NIPPLE       | 3/4       | 3/4       | NPT         | 100610112  | M. W6F6-B        |
| COUPLER      | 1         | 1         | NPT         | 100610016  | F. W8F8-B        |
| NIPPLE       | 1         | 1         | NPT         | 100610116  | M. W8F8-B        |
| COUPLER      | 1 1/4     | 1 1/4     | NPT         | 100610020  | F. W10F10-B      |
| NIPPLE       | 1 1/4     | 1 1/4     | NPT         | 100610120  | M. W10F10-B      |
| COUPLER      | 1 1/2     | 1 1/2     | NPT         | 100610024  | F. W12F12-B      |
| NIPPLE       | 1 1/2     | 1 1/2     | NPT         | 100610124  | M. W12F12-B      |

| ORDER CODE | DESCRIPTION    | CAP FOR COUPLER |
|------------|----------------|-----------------|
| 200610012  | F. CAP 6WDP-B  | 100610012       |
| 200610112  | M. CAP W6DC-B  | 100610112       |
| 200610016  | F. CAP 8WDP-B  | 100610016       |
| 200610116  | M. CAP W8DP-B  | 100610116       |
| 200610020  | F. CAP 10WDP-B | 100610020       |
| 200610120  | M. CAP W10DC-B | 100610120       |
| 200610024  | F. CAP 12WDP-B | 100610024       |
| 200610124  | M. CAP W12DC-B | 100610124       |



# 10,000 psi Interchange Coupling



## Misc: Interchange Coupling

**Series:** IVHP

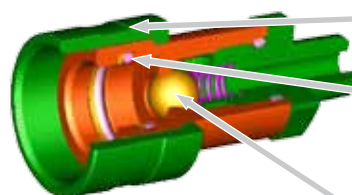
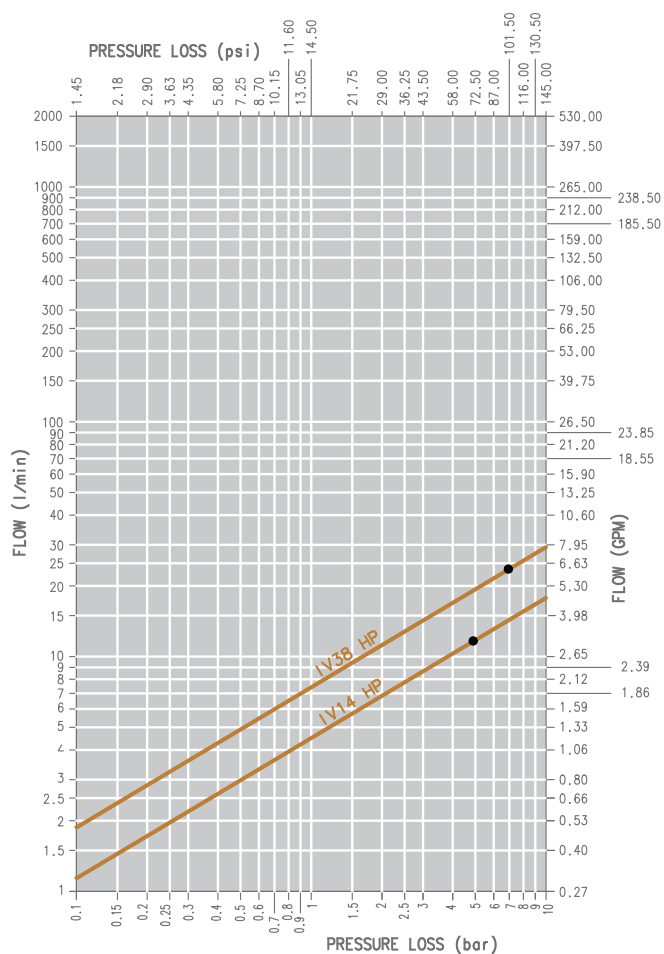
**Interchange:** Enerpac/Hydraulic Jack

- 10,000 psi working pressure
- Seals: Nitrile
- Material: hardened steel for higher burst pressure than competitors



# 10,000 psi Interchange Coupling

| DESCRIPTION | NOMINAL SIZE | ISO SIZE | MAX. OPERATING PRESSURE COUPLED |        | BURST PRESSURE COUPLED |        |
|-------------|--------------|----------|---------------------------------|--------|------------------------|--------|
|             | inch         | mm       | bar                             | psi    | bar                    | psi    |
| IVHP 1/4    | 1/4          | 6.3      | 700                             | 10,000 | 2500                   | 35,714 |
| IVHP 3/8    | 3/8          | 10.0     | 700                             | 10,000 | 2350                   | 33,570 |

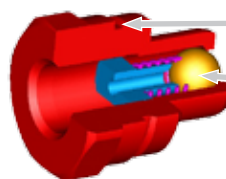


Components in high resistance carbon steel

Size 1/4: o-ring in Nitrile 90 shore

Size 3/8: o-ring in Nitrile 90 shore with PTFE anti-extrusion

Ball valves

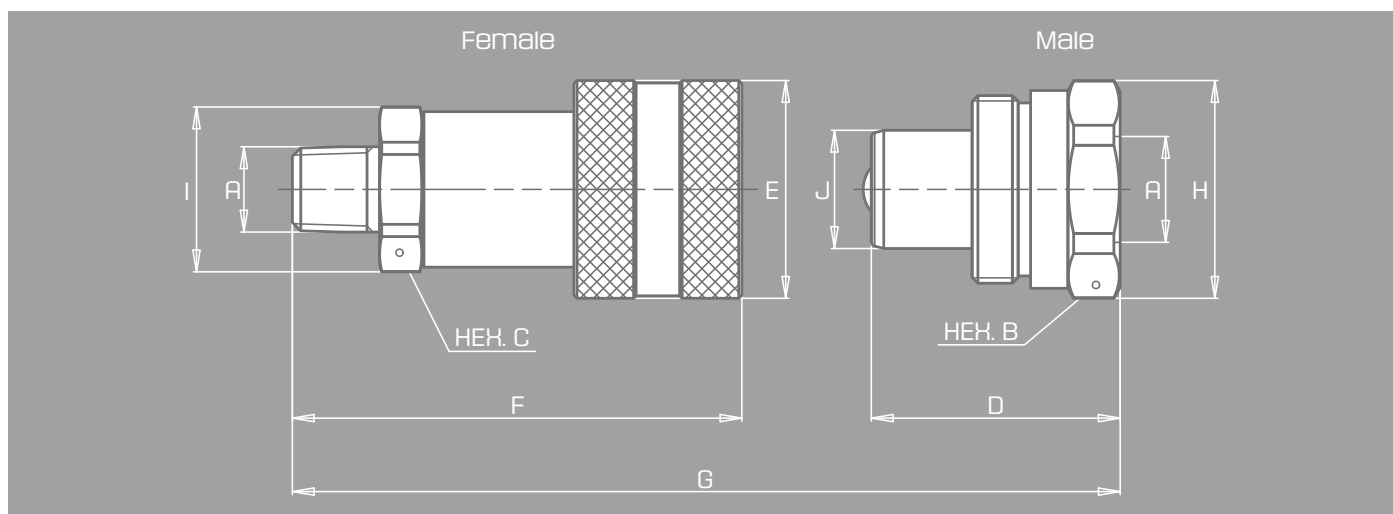


Screw mechanical connection

Ball valves



## Misc: Interchange Coupling Size Diagram



| DESCRIPTION | BODY SIZE | UNIT | A    | B    | C     | D    | E    | F    | G     | H    | UNIT | WEIGHT |
|-------------|-----------|------|------|------|-------|------|------|------|-------|------|------|--------|
| F-IV14HP    | 1/4       | mm   | 28.0 | 20.5 | 98.0  | 24.0 | -    | -    | -     | -    | Kg   | 0.045  |
|             |           | inch | 1.10 | 0.81 | 3.86  | 0.94 | -    | -    | -     | -    | lb   | 0.10   |
| M-IV14HP    | 1/4       | mm   | -    | -    | -     | -    | 28.0 | 28.5 | 98.0  | 24.0 | Kg   | 0.040  |
|             |           | inch | -    | -    | -     | -    | 1.10 | 1.12 | 3.86  | 0.94 | lb   | 0.09   |
| F-IV38HP    | 3/8       | mm   | 35.0 | 23.5 | 110.0 | 24.0 | -    | -    | -     | -    | Kg   | 0.070  |
|             |           | inch | 1.38 | 0.93 | 4.33  | 0.94 | -    | -    | -     | -    | lb   | 0.15   |
| M-IV38HP    | 3/8       | mm   | -    | -    | -     | -    | 35.0 | 36.6 | 110.0 | 24.0 | Kg   | 0.095  |
|             |           | inch | -    | -    | -     | -    | 1.38 | 1.44 | 4.33  | 0.94 | lb   | 0.21   |

# Interchange Coupling



COUPLER

## IVHP 10,000 psi NPT Thread\_Thread to Connect High Pressure

| PART                            | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION    |
|---------------------------------|-----------|-----------|-------------|------------|---------------------|
| IVHP NPT MALE AND FEMALE THREAD |           |           |             |            |                     |
| COUPLER                         | 1/4       | 1/4       | NPT MALE    | 800201008  | F. IVHP 1/4 NPT EXT |
| NIPPLE                          | 1/4       | 1/4       | NPT FEMALE  | 800201009  | M. IVHP 1/4 NPT     |
| COUPLER                         | 3/8       | 3/8       | NPT MALE    | 800201004  | F. IVHP 3/8 NPT EXT |
| NIPPLE                          | 3/8       | 3/8       | NPT FEMALE  | 800201005  | M. IVHP 3/8 NPT     |
| NIPPLE                          | 1/4       | 1/4       | NPT MALE    | 800201010  | M. IVHP 1/4 NPT     |
| COUPLER                         | 3/8       | 3/8       | NPT FEMALE  | 800201014  | F. IVHP 3/8 NPT     |

SIZE 3/8 AVAILABLE IN 316SS UPON REQUEST



NIPPLE

## IVHP\_Metal and Plastic Caps

| ORDER CODE        | DESCRIPTION                 |
|-------------------|-----------------------------|
| IVHP METAL CAPS   |                             |
| 815605002         | CAP F. IV38HP               |
| 815605003         | CAP M. IV38HP               |
| 815605004         | CAP F. IV14HP               |
| 815605005         | CAP M. IV14HP               |
| IVHP PLASTIC CAPS |                             |
| 815603010         | CAP F. IV14HP BLACK PLASTIC |
| 815603011         | CAP M. IV14HP BLACK PLASTIC |
| 815603012         | CAP F. IV38HP BLACK PLASTIC |
| 815603013         | CAP M. IVHP38 BLACK PLASTIC |





## Misc: Adapter Couplers

Series: F. FIRG12A M. BIR12  
M. FIRG12A F. BIR12

### Advantages of Adapters

- Provides compatibility between old and new equipment
- Avoids changing mismatched couplers
- Bi-directional flow



F. FIRG12A M. BIR12

| STUCCHI SERIES      | NOMINAL SIZE | ISO SIZE | MAX WORKING PRESSURE | MAX WORKING PRESSURE |
|---------------------|--------------|----------|----------------------|----------------------|
| VEP                 | inch         | mm       | bar                  | psi                  |
| F. FIRG12A M. BIR12 | 1/2          | 12.5     | 250                  | 3750                 |
| M. FIRG12A F. BIR12 | 1/2          | 12.5     | 250                  | 3750                 |

### Adapter Couplers Flat Face/ISO A | 8036-Adapter

| DESCRIPTION                         | ORDER CODE | PART INSCRIPTION    |
|-------------------------------------|------------|---------------------|
| 1/2 FEMALE FLAT FAC /1/2 MALE ISO A | 803622000  | F. FIRG12A M. BIR12 |
| 1/2 MALE FLAT FACE/1/2 FEMALE ISO A | 803622001  | M. FIRG12A F. BIR12 |



M. FIRG12A F. BIR12

# IRH Series European Poppet Interchange



## Misc: IRH Series

**Series:** IRH

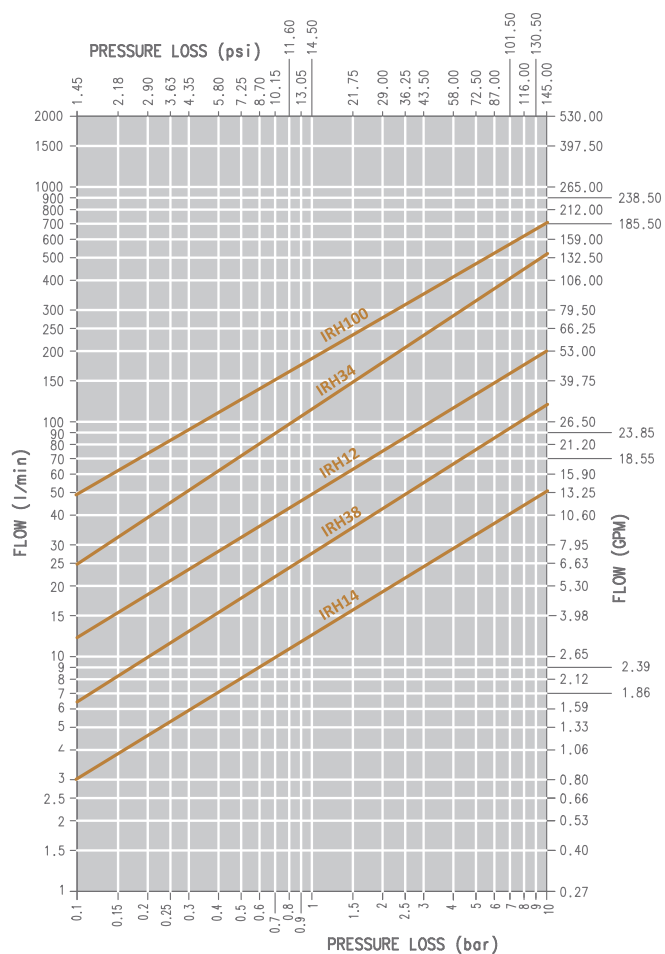
**Interchange:** Tema "T"

Applications include chemical industries, industrial plants, material handling, and mobile machinery. Standard poppet and pressure eliminator poppet available.



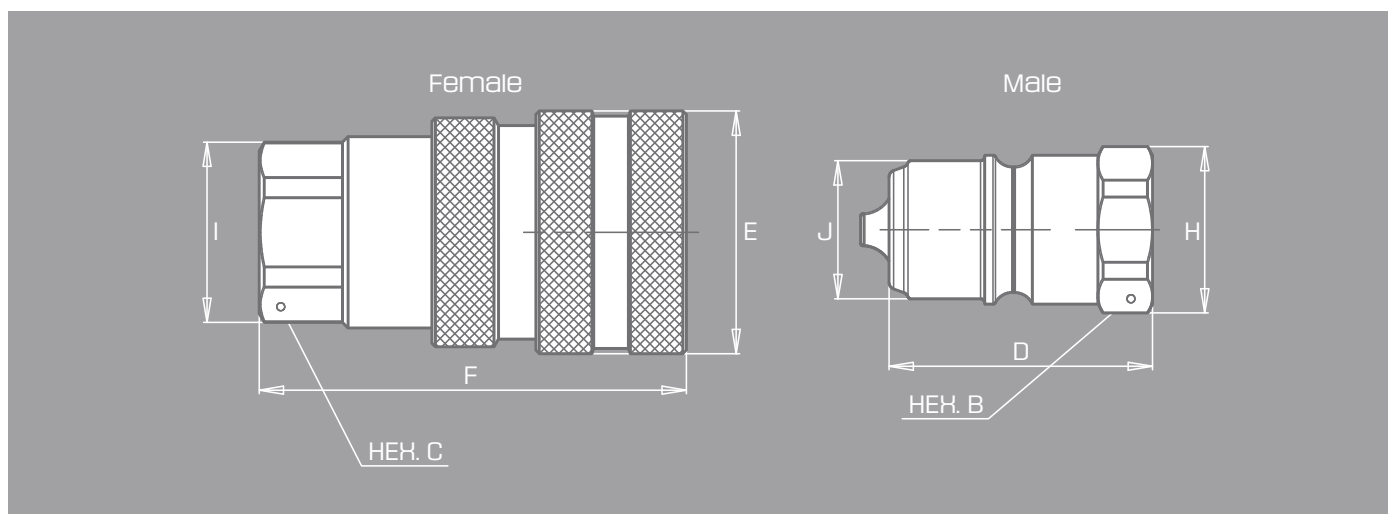


| DESCRIPTION | NOMINAL<br>SIZE | ISO SIZE | MAX. OPERATING<br>PRESSURE<br>COUPLED |      | BURST PRESSURE |       |      |       |        |       |
|-------------|-----------------|----------|---------------------------------------|------|----------------|-------|------|-------|--------|-------|
|             |                 |          |                                       |      | COUPLED        |       | MALE |       | FEMALE |       |
|             | inch            | mm       | MPa                                   | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |
| IRH14       | 1/4             | 6.3      | 60                                    | 8702 | 180            | 26106 | 120  | 17404 | 120    | 17404 |
| IRH38       | 3/8             | 10.0     | 46.5                                  | 6744 | 130            | 18854 | 110  | 15954 | 110    | 15954 |
| IRH12       | 1/2             | 12.5     | 40                                    | 5801 | 110            | 15954 | 100  | 14503 | 100    | 14503 |
| IRH34       | 3/4             | 20.0     | 27                                    | 3916 | 100            | 14503 | 80   | 11603 | 80     | 11603 |
| IRH100      | 1               | 25.0     | 27                                    | 3916 | 90             | 13053 | 80   | 11603 | 80     | 11603 |



# IRH Series European Poppet Interchange

## Misc: IRH Series Size Diagram



| DESCRIPTION | BODY SIZE | A   | B  | C  | D    | E  | F    | G     | H  | I    | J     | WEIGHT |        |
|-------------|-----------|-----|----|----|------|----|------|-------|----|------|-------|--------|--------|
|             |           |     |    |    |      |    |      |       |    |      |       | MALE   | FEMALE |
| IRH14 NPTF  | 6.3       | 1/4 | 19 | 21 | 48.2 | 26 | 60   | 81.7  | 21 | 23   | 11.95 | 51     | 145    |
| IRH38 NPTF  | 10        | 3/8 | 22 | 24 | 38   | 35 | 61.6 | 76.4  | 24 | 26   | 19.9  | 57     | 222    |
| IRH12 NPTF  | 12.5      | 1/2 | 27 | 30 | 42.5 | 41 | 67.6 | 85.2  | 29 | 33   | 24.7  | 99     | 327    |
| IRH34 NPTF  | 20        | 3/4 | 36 | 38 | 47   | 52 | 76.2 | 94.6  | 39 | 41.6 | 32.7  | 189    | 575    |
| IRH100 NPTF | 25        | 1   | 45 | 45 | 56.5 | 62 | 92   | 113.4 | 48 | 48   | 40.9  | 352    | 971    |



## IRH NPT and BSP Thread\_Tema "T" Series | European Interchange

| PART                                                 | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION  |
|------------------------------------------------------|-----------|-----------|-------------|------------|-------------------|
| <b>IRH NPT THREAD</b>                                |           |           |             |            |                   |
| COUPLER                                              | 1/4       | 1/4       | NPT         | 807902000  | F. IRH 14 NPTF    |
| NIPPLE                                               | 1/4       | 1/4       | NPT         | 807902001  | M. IRH 14 NPTF    |
| COUPLER                                              | 3/8       | 3/8       | NPT         | 807902002  | F. IRH 38 NPTF    |
| NIPPLE                                               | 3/8       | 3/8       | NPT         | 807902003  | M. IRH 38 NPTF    |
| COUPLER                                              | 1/2       | 1/2       | NPT         | 807902004  | F. IRH 12 NPTF    |
| NIPPLE                                               | 1/2       | 1/2       | NPT         | 807902005  | M. IRH 12 NPTF    |
| COUPLER                                              | 3/4       | 3/4       | NPT         | 807902006  | F. IRH 34 NPTF    |
| NIPPLE                                               | 3/4       | 3/4       | NPT         | 807902007  | M. IRH 34 NPTF    |
| COUPLER                                              | 1         | 1         | NPT         | 807902008  | F. IRH 100 NPTF   |
| NIPPLE                                               | 1         | 1         | NPT         | 807902009  | M. IRH 100 NPTF   |
| <b>IRH NPT THREAD - CONNECT UNDER PRESSURE VALVE</b> |           |           |             |            |                   |
| COUPLER                                              | 3/8       | 3/8       | NPT         | 807902010  | F. IRH 38PC NPTF  |
| NIPPLE                                               | 3/8       | 3/8       | NPT         | 807902011  | M. IRH 38PC NPTF  |
| COUPLER                                              | 1/2       | 1/2       | NPT         | 807902012  | F. IRH 12PC NPTF  |
| NIPPLE                                               | 1/2       | 1/2       | NPT         | 807902013  | M. IRH 12PC NPTF  |
| COUPLER                                              | 3/4       | 3/4       | NPT         | 807902014  | F. IRH 34PC NPTF  |
| NIPPLE                                               | 3/4       | 3/4       | NPT         | 807902015  | M. IRH 34PC NPTF  |
| COUPLER                                              | 1         | 1         | NPT         | 807902016  | F. IRH 100PC NPTF |
| NIPPLE                                               | 1         | 1         | NPT         | 807902017  | M. IRH 100PC NPTF |
| <b>IRH BSP THREAD</b>                                |           |           |             |            |                   |
| COUPLER                                              | 3/4       | 3/4       | BSP         | 807900006  | F. IRH 34 BSP     |
| NIPPLE                                               | 3/4       | 3/4       | BSP         | 807900007  | M. IRH 34 BSP     |
| COUPLER                                              | 1         | 1         | BSP         | 807900008  | F. IRH 100 BSP    |
| NIPPLE                                               | 1         | 1         | BSP         | 807900009  | M. IRH 100 BSP    |
| <b>IRH BSP THREAD - CONNECT UNDER PRESSURE VALVE</b> |           |           |             |            |                   |
| COUPLER                                              | 3/4       | 3/4       | BSP         | 807900014  | F. IRH 34PC BSP   |
| NIPPLE                                               | 3/4       | 3/4       | BSP         | 807900015  | M. IRH 34PC BSP   |



COUPLER



NIPPLE



NIPPLE-PC

# VD Series Screw Poppet Interchange



COMING SOON



## Stucchi: VD Series

### Series: VD European Screw Coupler

Available from size 1/4 to 1 1/4 inch to cover the various fields of hydraulic applications. The series VD couplings are mostly used in mobile crane, vibratory hammer, oil patch and industrial plant applications.

Screw-on system ensures connection with some residual pressure

- Friction ring to prevent accidental disconnection
- Hardened valve bodies for impulse applications
- Interchangeable with the German market
- O-ring connected marker is highly visible during connection and helps to keep containments out of the threads while connected

### Overview

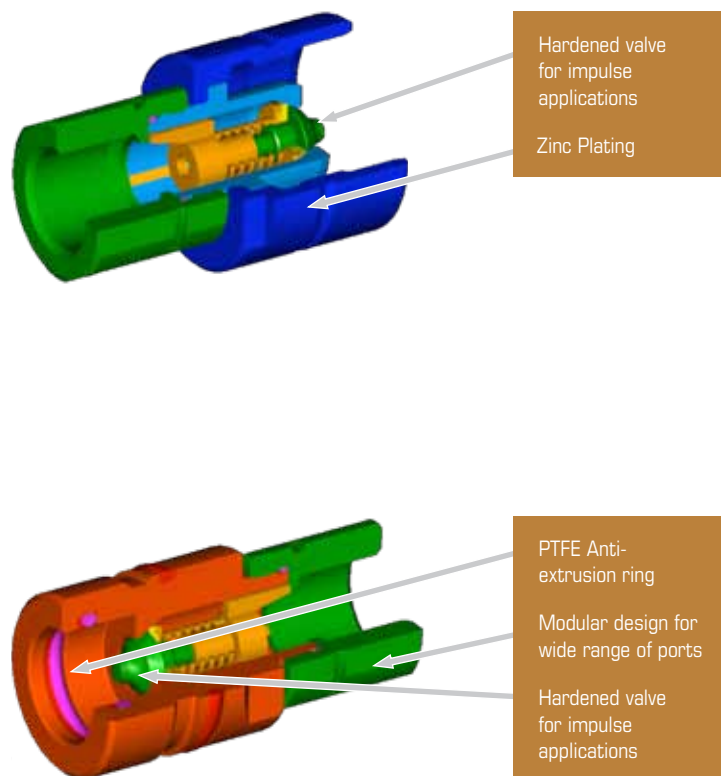
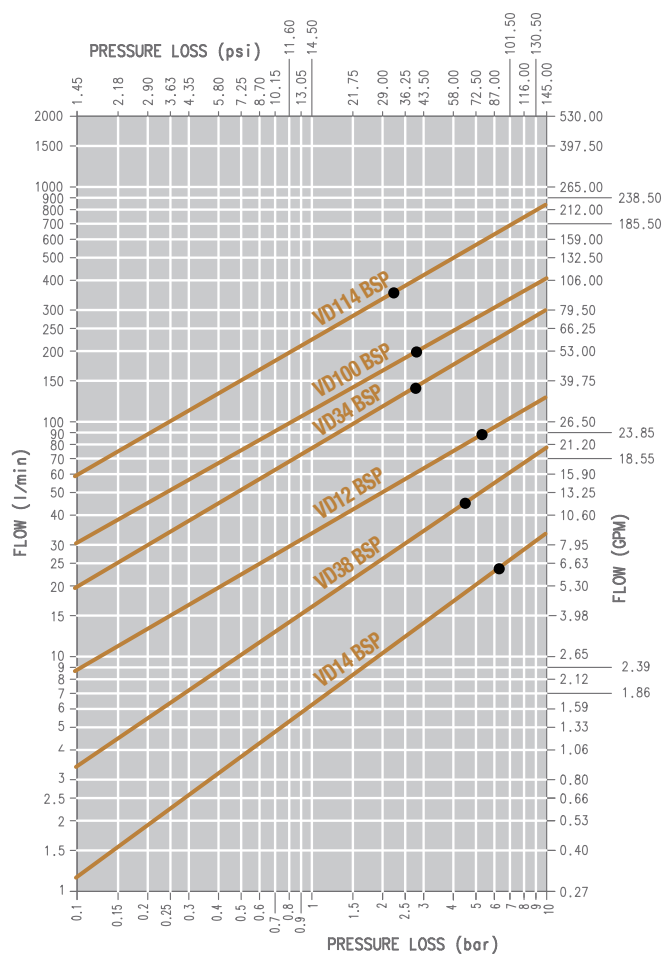
Due to their rugged design, VD series couplings are particularly well suited for heavy-duty service conditions making them one of the most popular designs in Europe. The VD coupler is a durable product using a poppet style valve for the sealing mechanism and threads as the mechanical connection. Highly versatile design is ideally suited for hydraulic systems experiencing pressure spikes or impulses.

### Technical Characteristics

- Coupling body: zinc plated steel
- Nipple is zinc plated hardened steel
- Seals: Nitrile
- Anti-extrusion rings are Teflon
- Internal components purposely designed to reduce turbulence
- Wide range of ports on request
- Metal shoulder to protect the o-ring seal on female coupling
- Screw-on system ensures connection under residual pressure



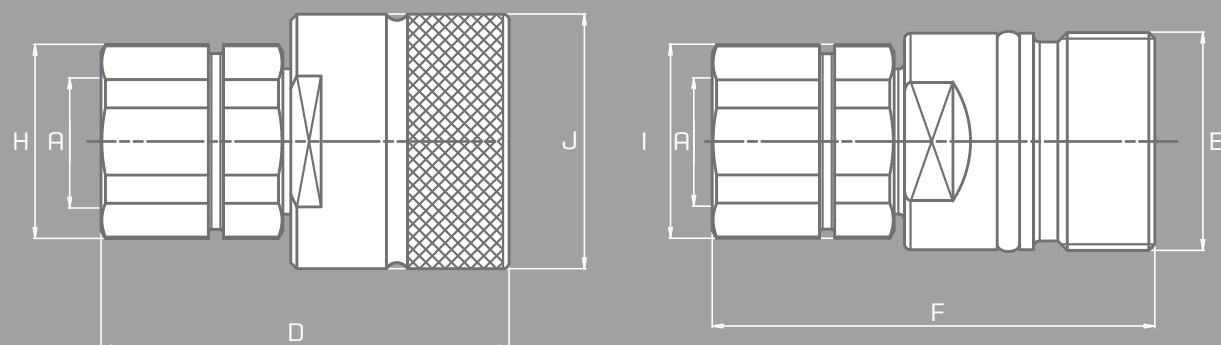
| DESCRIPTION | SIZE  | MAX. WORKING PRESSURE CONNECTED |      |
|-------------|-------|---------------------------------|------|
|             |       | MPa                             | psi  |
| VD14        | 1/4   | 45                              | 6527 |
| VD38        | 3/8   | 45                              | 6527 |
| VD12        | 1/2   | 40                              | 5801 |
| VD34        | 3/4   | 40                              | 5801 |
| VD100       | 1     | 30                              | 4351 |
| VD114       | 1 1/4 | 30                              | 4351 |





# VD Series Screw Poppet Interchange

## Misc: VD Series Size Diagram



| DESCRIPTION | BODY SIZE | A   | DIMENSION | D    | E    | F    | H    | I    | J    |
|-------------|-----------|-----|-----------|------|------|------|------|------|------|
| VD38        | 3/8       | 3/8 | mm        | 60.7 | 28   | 63.3 | 24   | 24   | 34   |
|             |           |     | inch      | 2.39 | 1.1  | 2.49 | 0.94 | 0.94 | 1.34 |
| VD12        | 1/2       | 1/2 | mm        | 67.3 | 36   | 73   | 32   | 32   | 42   |
|             |           |     | inch      | 2.65 | 1.42 | 2.87 | 1.26 | 1.26 | 1.65 |
| VD34        | 3/4       | 3/4 | mm        | 72.5 | 42   | 82   | 40   | 40   | 48   |
|             |           |     | inch      | 2.85 | 1.65 | 3.23 | 1.57 | 1.57 | 1.89 |
| VD100       | 1         | 1   | mm        | 82.5 | 48   | 99   | 45   | 45   | 55   |
|             |           |     | inch      | 3.25 | 1.89 | 3.9  | 1.77 | 1.77 | 2.17 |



## VD DIN Thread\_SCHOTT (DIN Bulkhead) | Screw Poppet Interchange

| PART          | BODY SIZE | THREAD TYPE | PORT SERIES | TUBE OD | THREAD SIZE     | ORDER CODE | DESCRIPTION              |
|---------------|-----------|-------------|-------------|---------|-----------------|------------|--------------------------|
| VD DIN THREAD |           |             |             |         |                 |            |                          |
| COUPLER       | 1/2       | DIN         | FEMALE      | 22      | M22X1.5         | 809512000  | INN. F. VD12 M22X1.5     |
| NIPPLE        | 1/2       | DIN         | FEMALE      | 22      | M22X1.5         | 809512001  | INN. M. VD12 M22X1.5     |
| COUPLER       | 1/2       | DIN         | L           | 12      | M 18X1.5        | 809508000  | INN. F. VD12 L12         |
| NIPPLE        | 1/2       | DIN         | L           | 12      | M 18X1.5        | 809508001  | INN. M. VD12 L12         |
| COUPLER       | 1/2       | DIN         | L           | 15      | M 22X1.5        | 809508004  | INN. F. VD12 L15         |
| NIPPLE        | 1/2       | DIN         | L           | 15      | M 22X1.5        | 809508005  | INN. M. VD12 L15         |
| COUPLER       | 1/2       | DIN         | L           | 18      | M 26X1.5        | 809508008  | INN. F. VD12 L18         |
| NIPPLE        | 1/2       | DIN         | L           | 18      | M 26X1.5        | 809508009  | INN. M. VD12 L18         |
| COUPLER       | 1/2       | DIN         | L           | 12      | M 18X1.5 SCHOTT | 809510000  | INN. F. VD12 L12 SCHOTT  |
| NIPPLE        | 1/2       | DIN         | L           | 12      | M 18X1.5 SCHOTT | 809510001  | INN. M. VD12 L12 SCHOTT  |
| COUPLER       | 1/2       | DIN         | L           | 15      | M 22X1.5 SCHOTT | 809510004  | INN. F. VD12 L15 SCHOTT  |
| NIPPLE        | 1/2       | DIN         | L           | 15      | M 22X1.5 SCHOTT | 809510005  | INN. M. VD12 L15 SCHOTT  |
| COUPLER       | 3/4       | DIN         | S           | 16      | M 24X1.5        | 809509014  | INN. F. VD34 S16         |
| NIPPLE        | 3/4       | DIN         | S           | 16      | M 24X1.5        | 809509015  | INN. M. VD34 S16         |
| COUPLER       | 3/4       | DIN         | S           | 16      | M 24X1.5 SCHOTT | 809511014  | INN. F. VD34 S16 SCHOTT  |
| COUPLER       | 3/4       | DIN         | S           | 20      | M 30X1.5 SCHOTT | 809511016  | INN. F. VD34 S20 SCHOTT  |
| NIPPLE        | 3/4       | DIN         | S           | 20      | M 30X1.5 SCHOTT | 809511017  | INN. M. VD34 S20 SCHOTT  |
| COUPLER       | 3/4       | DIN         | FEMALE      | 22      | M 22X1.5        | 809512002  | INN. F. VD34 M22X1.5     |
| NIPPLE        | 3/4       | DIN         | FEMALE      | 22      | M 22X1.5        | 809512003  | INN. M. VD34 M22X1.5     |
| COUPLER       | 1         | DIN         | S           | 20      | M 30X2          | 809509018  | INN. F. VD100 S20        |
| NIPPLE        | 1         | DIN         | S           | 20      | M 30X2          | 809509019  | INN. M. VD100 S20        |
| COUPLER       | 1         | DIN         | S           | 25      | M 36X2          | 809509020  | INN. F. VD100 S25        |
| NIPPLE        | 1         | DIN         | S           | 25      | M 36X2          | 809509021  | INN. M. VD100 S25        |
| COUPLER       | 1         | DIN         | S           | 30      | M 42X2          | 809509022  | INN. F. VD100 S30        |
| NIPPLE        | 1         | DIN         | S           | 30      | M 42X2          | 809509023  | INN. M. VD100 S30        |
| COUPLER       | 1         | DIN         | S           | 20      | M 30X2 SCHOTT   | 809511018  | INN. F. VD100 S20 SCHOTT |
| NIPPLE        | 1         | DIN         | S           | 20      | M 30X2 SCHOTT   | 809511019  | INN. M. VD100 S20 SCHOTT |
| COUPLER       | 1         | DIN         | S           | 25      | M 36X2 SCHOTT   | 809511020  | INN. F. VD100 S25 SCHOTT |
| NIPPLE        | 1         | DIN         | S           | 25      | M 36X2 SCHOTT   | 809511021  | INN. M. VD100 S25 SCHOTT |
| COUPLER       | 1         | DIN         | S           | 30      | M 42X2 SCHOTT   | 809511022  | INN. F. VD100 S30 SCHOTT |
| NIPPLE        | 1         | DIN         | S           | 30      | M 42X2 SCHOTT   | 809511023  | INN. M. VD100 S30 SCHOTT |
| COUPLER       | 1         | DIN         | S           | 38      | M 52X2 SCHOTT   | 809511024  | INN. F. VD100 S38 SCHOTT |
| COUPLER       | 1 1/4     | DIN         | S           | 38      | M 52X2          | 809509028  | INN. F. VD114 S38        |
| NIPPLE        | 1 1/4     | DIN         | S           | 38      | M 52X2          | 809509029  | INN. M. VD114 S38        |
| COUPLER       | 1 1/4     | DIN         | S           | 38      | M 52X2 SCHOTT   | 809511028  | INN. F. VD114 S38 SCHOTT |
| NIPPLE        | 1 1/4     | DIN         | S           | 38      | M 52X2 SCHOTT   | 809511029  | INN. M. VD114 S38 SCHOTT |



COUPLER



NIPPLE

# VD Series Screw Poppet Interchange



COUPLER



NIPPLE

## VD BSP and NPT Thread\_Screw Poppet Interchange

| PART                 | BODY SIZE | THREAD TYPE | THREAD SIZE | PORT THREAD  | ORDER CODE | DESCRIPTION                     |
|----------------------|-----------|-------------|-------------|--------------|------------|---------------------------------|
| <b>VD BSP THREAD</b> |           |             |             |              |            |                                 |
| COUPLER              | 3/8       | BSP         | 1/4         | 1/4-9        | 809500008  | INN. F. VD38 1/4 BSP            |
| NIPPLE               | 3/8       | BSP         | 1/4         | 1/ -9        | 809500009  | INN. M. VD38 1/4 BSP            |
| COUPLER              | 3/8       | BSP         | 3/8         | 3/8-19       | 809500010  | INN. F. VD38 3/8 BSP            |
| NIPPLE               | 3/8       | BSP         | 3/8         | 3/8-19       | 809500011  | INN.M VD38 3/8 BSP              |
| COUPLER              | 3/8       | BSP         | 3/8         | 3/8-19       | 809500012  | F. VD38 3/8 BSP EST DIN3852-2-A |
| NIPPLE               | 3/8       | BSP         | 3/8         | 3/8-19       | 809500013  | M. VD38 3/8 BSP EST DIN3852-2-A |
| COUPLER              | 1/2       | BSP         | 3/8         | 3/8-19       | 809500000  | INN. F. VD12 3/8 BSP            |
| NIPPLE               | 1/2       | BSP         | 3/8         | 3/8-19       | 809500001  | INN. M. VD12 3/8 BSP            |
| COUPLER              | 1/2       | BSP         | 1/2         | 1/2-4        | 809500002  | INN. F. VD12 1/2 BSP            |
| NIPPLE               | 1/2       | BSP         | 1/2         | 1/2-4        | 809500003  | INN. M. VD12 1/2 BSP            |
| COUPLER              | 1/2       | BSP         | 1/2         | 1/2-4        | 809500004  | INN. F. VD12 1/2 BSP EST        |
| NIPPLE               | 1/2       | BSP         | 1/2         | 1/2-4        | 809500005  | INN. M. VD12 1/2 BSP EST        |
| COUPLER              | 3/4       | BSP         | 1/2         | 1/2-4        | 809500014  | INN. F. VD34 1/2 BSP            |
| NIPPLE               | 3/4       | BSP         | 1/2         | 1/2-4        | 809500015  | INN. M. VD34 1/2 BSP            |
| COUPLER              | 3/4       | BSP         | 3/4         | 3/4-14       | 809500016  | INN. F. VD34 3/4 BSP            |
| NIPPLE               | 3/4       | BSP         | 3/4         | 3/4-14       | 809500017  | INN. M. VD34 3/4 BSP            |
| COUPLER              | 1         | BSP         | 3/4         | 3/4-14       | 809500018  | INN. F. VD100 3/4 BSP           |
| NIPPLE               | 1         | BSP         | 3/4         | 3/4-14       | 809500019  | INN. M. VD100 3/4 BSP           |
| COUPLER              | 1         | BSP         | 1           | 1-11         | 809500020  | INN. F. VD100 1 BSP             |
| NIPPLE               | 1         | BSP         | 1           | 1-11         | 809500021  | INN. M. VD100 1 BSP             |
| COUPLER              | 1 1/4     | BSP         | 1 1/4       | 1 1/4-11     | 809500022  | INN. F. VD114 1-1/4 BSP         |
| NIPPLE               | 1 1/4     | BSP         | 1 1/4       | 1 1/4-11     | 809500023  | INN. M. VD114 1-1/4 BSP         |
| COUPLER              | 1 1/4     | BSP         | 1-1/2       | 1 1/2-11     | 809500024  | INN. F. VD114 1-1/2 BSP         |
| NIPPLE               | 1 1/4     | BSP         | 1-1/2       | 1 1/2-11     | 809500025  | INN. M. VD114 1-1/2 BSP         |
| <b>VD NPT THREAD</b> |           |             |             |              |            |                                 |
| COUPLER              | 3/8       | NPT         | 1/4         | 1/4-18       | 809501008  | INN. F. VD38 1/4 NPT            |
| NIPPLE               | 3/8       | NPT         | 1/4         | 1/4-18       | 809501009  | INN. M. VD38 1/4 NPT            |
| COUPLER              | 3/8       | NPT         | 3/8         | 3/8-18       | 809501010  | INN. F. VD38 3/8 NPT            |
| NIPPLE               | 3/8       | NPT         | 3/8         | 3/8-18       | 809501011  | INN. M. VD38 3/8 NPT            |
| COUPLER              | 1/2       | NPT         | 3/8         | 3/8-18       | 809501000  | INN. F. VD12 3/8 NPT            |
| NIPPLE               | 1/2       | NPT         | 3/8         | 3/8-18       | 809501001  | INN. M. VD12 3/8 NPT            |
| COUPLER              | 1/2       | NPT         | 1/2         | 1/2-14       | 809501002  | INN. F. VD12 1/2 NPT            |
| NIPPLE               | 1/2       | NPT         | 1/2         | 1/2-14       | 809501003  | INN. M. VD12 1/2 NPT            |
| COUPLER              | 3/4       | NPT         | 1/2         | 1/2-14       | 809501014  | INN. F. VD34 1/2 NPT            |
| NIPPLE               | 3/4       | NPT         | 1/2         | 1/2-14       | 809501015  | INN. M. VD34 1/2 NPT            |
| COUPLER              | 3/4       | NPT         | 3/4         | 3/4-14       | 809501016  | INN. F. VD34 3/4 NPT            |
| NIPPLE               | 3/4       | NPT         | 3/4         | 3/4-14       | 809501017  | INN. M. VD34 3/4 NPT            |
| COUPLER              | 1         | NPT         | 3/4         | 3/4-14       | 809501018  | INN. F. VD100 3/4 NPT           |
| NIPPLE               | 1         | NPT         | 3/4         | 3/4-14       | 809501019  | INN. M. VD100 3/4 NPT           |
| COUPLER              | 1         | NPT         | 1           | 1-11 1/2     | 809501020  | INN. F. VD100 1 NPT             |
| NIPPLE               | 1         | NPT         | 1           | 1-11 1/2     | 809501021  | INN. M. VD100 1 NPT             |
| COUPLER              | 1 1/4     | NPT         | 1 1/4       | 1 1/4-11 1/2 | 809501022  | INN. F. VD114 1-1/4 NPT         |
| NIPPLE               | 1 1/4     | NPT         | 1 1/4       | 1 1/4-11 1/2 | 809501023  | INN. M. VD114 1-1/4 NPT         |
| COUPLER              | 1 1/4     | NPT         | 1-1/2       | 1 1/2-11 1/2 | 809501024  | INN. F. VD114 1-1/2 NPT         |
| NIPPLE               | 1 1/4     | NPT         | 1-1/2       | 1 1/2-11 1/2 | 809501025  | INN. M. VD114 1-1/2 NPT         |

# VR Series European Screw Coupler



COMING SOON



## Stucchi: VR Series

### Series: VR German Screw Coupler

Available in four sizes 3/8, 1/2, 1, 1 1/4 inches, covering the various fields of hydraulic applications. The series VR couplings are mostly used in mobile cranes, trucks and industrial plant applications.

Screw-on system ensures connection with some residual pressure

- Friction ring to prevent accidental disconnection
- Low leakage screw coupling
- Interchangeable with the German market
- Wide range of port options

### Overview

Due to their rugged design, VR series couplings are particularly well suited for heavy-duty service conditions. The VR coupler is a durable product using a low leakage style valve for the sealing mechanism and threads as the mechanical connection.

### Technical Characteristics

- Coupling body: zinc plated steel
- Nipple is zinc plated hardened steel
- Seals: Nitrile
- Anti-extrusion rings are Teflon
- Internal components purposely designed to reduce turbulence
- Wide range of ports on request and various seals
- Screw-on system ensures connection under residual pressure

| DESCRIPTION | SIZE  | MAX. WORKING PRESSURE CONNECTED |      |
|-------------|-------|---------------------------------|------|
|             |       | MPa                             | psi  |
| VR38        | 3/8   | 40                              | 5801 |
| VR12        | 1/2   | 30                              | 4351 |
| VR100       | 1     | 32                              | 4641 |
| VR114       | 1 1/4 | 42                              | 6091 |

# VLS Series Heavy Duty Screw Coupler



COMING SOON



## VLS Series

### Series: VLS Heavy Duty Screw Coupler

Available in two sizes: 1/2 and 1 inch. The series VLS couplings are mostly used on off highway applications and are a very rugged design making them particularly well suited for use in construction equipment under extreme conditions.

#### Overview

VLS series couplings are particularly well suited for heavy-duty service conditions. The VLS coupler is a durable product using heavy duty poppet style valves for the sealing mechanism and threads as the mechanical connection.

#### Technical Characteristics

- Coupling body:  
zinc plated steel
- Nipple is zinc plated  
hardened steel
- Seals: Nitrile
- Anti-extrusion rings  
are Teflon
- Internal components  
designed to reduce  
turbulence and handle  
impulse applications
- Screw-on system  
ensures connection  
under residual pressure

| DESCRIPTION | SIZE | MAX. WORKING PRESSURE CONNECTED |      |
|-------------|------|---------------------------------|------|
|             |      | MPa                             | psi  |
| VLS12       | 1/2  | 46.5                            | 6744 |
| VLS100      | 1    | 46.5                            | 6744 |



## Overview

- VU series are used in any type of hydraulic circuit
- Alternative uses: as pressure sequence valve by adjusting the internal spring loading to the required cracking point, according to the valve size

## Instructions for Use

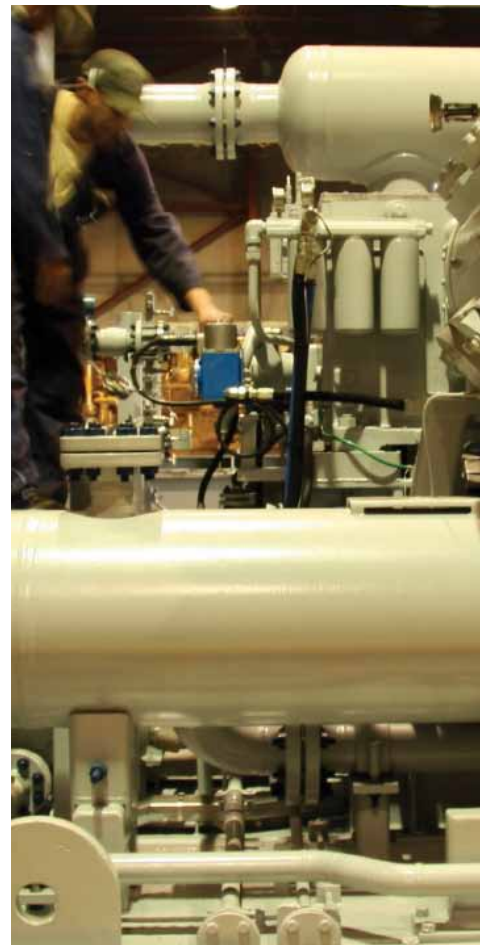
The VU series must be assembled in the circuit so that the direction of the flow corresponds to the direction of the arrow marked on the valve.

## Check Valves: VU Series

### Series: VU

The Stucchi check valve design is safe, compact and suitable to any hydraulic application using non-corrosive liquids. The VU size-range includes two different standard openings at 5 to 65 psi.

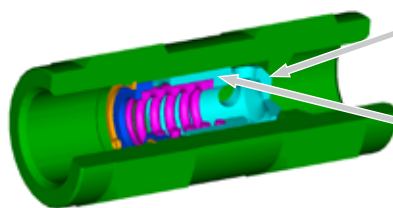
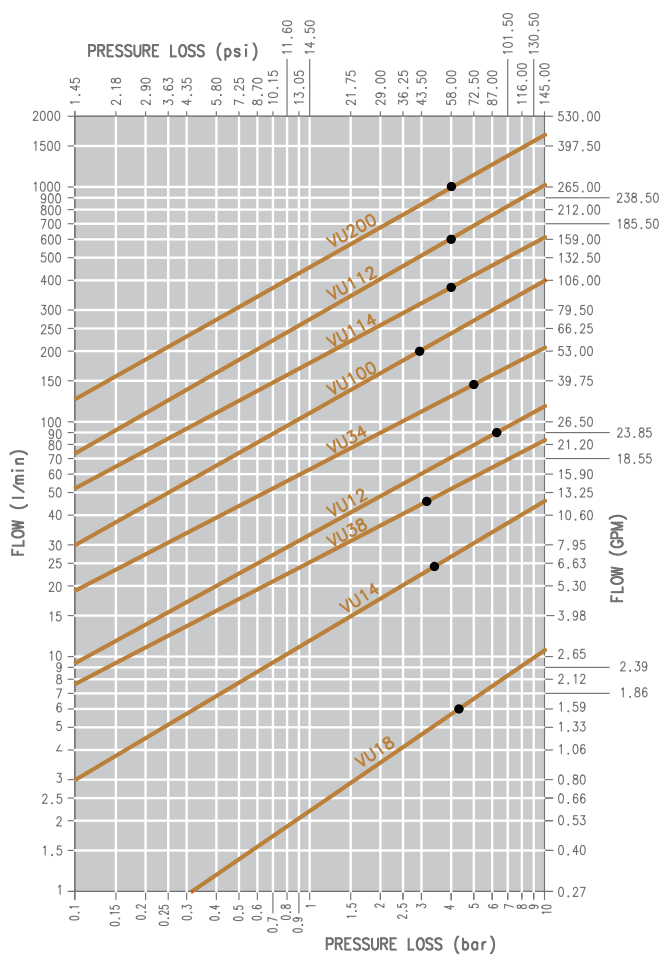
- Material: steel with black phosphate
- Closing spring in C72 material
- Standard Crack 5 psi and 65 psi
- Standard SAE and NPT threads
- Various crack pressures optional
- Central exhausting hole option
- Zinc plating available upon request



# VU Series Check Valves

| DESCRIPTION | SIZE  | MAX SUGGESTED FLOW |        | MAX OPERATING PRESSURE |      | BURST PRESSURE |       |
|-------------|-------|--------------------|--------|------------------------|------|----------------|-------|
|             | Inch  | l/min              | GPM    | MPa                    | psi  | MPa            | psi   |
| VU18        | 1/8   | 6                  | 1.59   | 40                     | 5800 | 160            | 23200 |
| VU14        | 1/4   | 24                 | 6.36   | 35                     | 5075 | 140            | 20300 |
| VU38        | 3/8   | 46                 | 12.19  | 35                     | 5075 | 140            | 20300 |
| VU12        | 1/2   | 90                 | 23.85  | 30                     | 4350 | 120            | 17400 |
| VU34        | 3/4   | 148                | 39.22  | 30                     | 4350 | 120            | 17400 |
| VU100       | 1     | 200                | 53     | 30                     | 4350 | 120            | 17400 |
| VU114       | 1 1/4 | 378                | 100.17 | 25                     | 3625 | 100            | 14500 |
| VU112       | 1 1/2 | 600                | 159    | 25                     | 3625 | 100            | 14500 |
| VU200       | 2     | 1000               | 265    | 15                     | 2175 | 45             | 6525  |

TEMPERATURE RANGE: FROM -20 °C (-4 °F) TO 120 °C (248 °F)



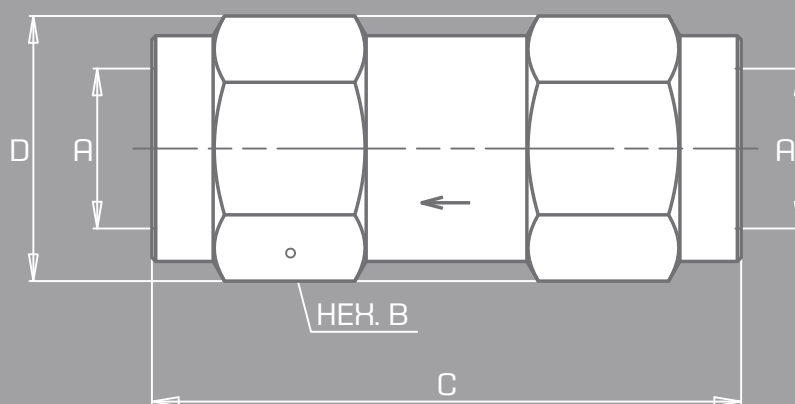
Metal to metal sealing avoids seal extrusion at high flow rates

Sealing Piston hardened with heat treatment





## Check Valves: VU Series Size Diagram



| DESCRIPTION | A     | B    |      | C     |      | D    |      | WEIGHT |      |
|-------------|-------|------|------|-------|------|------|------|--------|------|
|             |       | mm   | inch | mm    | inch | mm   | inch | Kg     | lb   |
| VU18        | 1/8   | 14.0 | 0.55 | 44.0  | 1.73 | 16.2 | 0.64 | 0.038  | 0.08 |
| VU14        | 1/4   | 19.0 | 0.75 | 60.0  | 2.36 | 21.9 | 0.86 | 0.090  | 0.20 |
| VU38        | 3/8   | 24.0 | 0.94 | 70.0  | 2.76 | 27.7 | 1.09 | 0.185  | 0.41 |
| VU12        | 1/2   | 30.0 | 1.18 | 77.0  | 3.03 | 34.6 | 1.36 | 0.303  | 0.67 |
| VU34        | 3/4   | 36.0 | 1.42 | 90.0  | 3.54 | 41.6 | 1.64 | 0.499  | 1.10 |
| VU100       | 1     | 45.0 | 1.77 | 106.0 | 4.17 | 52.0 | 2.05 | 0.901  | 1.99 |
| VU114       | 1 1/4 | 55.0 | 2.17 | 125.0 | 4.92 | 63.5 | 2.50 | 1.513  | 3.34 |
| VU112       | 1 1/2 | 65.0 | 2.56 | 140.0 | 5.51 | 75.1 | 2.96 | 2.430  | 5.36 |
| VU200       | 2     | 75.0 | 2.95 | 160.0 | 6.30 | 86.6 | 3.41 | 3.130  | 6.90 |

# VU Series Check Valves



## VU NPT and SAE Thread Check Valves

| CRACK POINT          | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE BLACK OXIDE | ORDER CODE YELLOW ZINC | PART DESCRIPTION      |
|----------------------|-----------|-----------|-------------|------------------------|------------------------|-----------------------|
| <b>VU NPT THREAD</b> |           |           |             |                        |                        |                       |
| 5 psi                | 1/8       | 1/8       | NPT         | 810201100              | 810501100              | VU 18 NPT 5 PSI       |
| 5 psi                | 1/4       | 1/4       | NPT         | 810201101              | 810501101              | VU 14 NPT 5 PSI       |
| 5 psi                | 3/8       | 3/8       | NPT         | 810201102              | 810501102              | VU 38 NPT 5 PSI       |
| 5 psi                | 1/2       | 1/2       | NPT         | 810201103              | 810501103              | VU 12 NPT 5 PSI       |
| 5 psi                | 3/4       | 3/4       | NPT         | 810201104              | 810501104              | VU 34 NPT 5 PSI       |
| 5 psi                | 1         | 1         | NPT         | 810201105              | 810501105              | VU 100 NPT 5 PSI      |
| 5 psi                | 1 1/4     | 1 1/4     | NPT         | 810201106              | 810501106              | VU 114 NPT 5 PSI      |
| 5 psi                | 1 1/2     | 1 1/2     | NPT         | 810201107              | 810501107              | VU 112 NPT 5 PSI      |
| 5 psi                | 2         | 2         | NPT         | 810201108              | 810501108              | VU 200 NPT 5 PSI      |
| 5 psi                | 3/4       | 3/4       | NPT         | 810201109              | 810501109*             | VU 34F 1.5 NPT 5 PSI  |
| 5 psi                | 1         | 1         | NPT         | 810201110              | 810501110*             | VU 100F 1.5 NPT 5 PSI |
| 5 psi                | 1/2       | 1/2       | NPT         | 810201112              | 810501112*             | VU 12EI NPT 5 PSI**   |
| 65 psi               | 1/8       | 1/8       | NPT         | 810201400              | 810501400              | VU 18 NPT 65 PSI      |
| 65 psi               | 1/4       | 1/4       | NPT         | 810201401              | 810501401              | VU 14 NPT 65 PSI      |
| 65 psi               | 3/8       | 3/8       | NPT         | 810201402              | 810501402              | VU 38 NPT 65 PSI      |
| 65 psi               | 1/2       | 1/2       | NPT         | 810201403              | 810501403              | VU 12 NPT 65 PSI      |
| 65 psi               | 3/4       | 3/4       | NPT         | 810201404              | 810501404              | VU 34 NPT 65 PSI      |
| 65 psi               | 1         | 1         | NPT         | 810201405              | 810501405              | VU 100 NPT 65 PSI     |
| 65 psi               | 1 1/4     | 1 1/4     | NPT         | 810201406              | 810501406              | VU 114 NPT 65 PSI     |
| 65 psi               | 1 1/2     | 1 1/2     | NPT         | 810201407              | 810501407              | VU 112 NPT 65 PSI     |
| 65 psi               | 2         | 2         | NPT         | 810201408              | 810501408              | VU 200 NPT 65 PSI     |
| <b>VU SAE THREAD</b> |           |           |             |                        |                        |                       |
| 5 psi                | 1/4       | 1/4       | SAE         | 810204100              | 810504100              | VU 14 SAE 5 PSI       |
| 5 psi                | 3/8       | 3/8       | SAE         | 810204101              | 810504101              | VU 38 SAE 5 PSI       |
| 5 psi                | 1/2       | 1/2       | SAE         | 810204102              | 810504102              | VU 12 SAE 5 PSI       |
| 5 psi                | 3/4       | 3/4       | SAE         | 810204103              | 810504103              | VU 34 SAE 5 PSI       |
| 5 psi                | 1         | 1         | SAE         | 810204104              | 810504104              | VU 100 SAE 5 PSI      |
| 5 psi                | 1 1/4     | 1 1/4     | SAE         | 810204105              | 810504105              | VU 114 SAE 5 PSI      |
| 5 psi                | 1 1/2     | 1 1/2     | SAE         | 810204106              | 810504106              | VU 112 SAE 5 PSI      |
| 5 psi                | 2         | 2         | SAE         | 810204107              | 810504107              | VU 200 SAE 5 PSI      |
| 65 psi               | 1/4       | 1/4       | SAE         | 810204400              | 810504400              | VU 14 SAE 65 PSI      |
| 65 psi               | 3/8       | 3/8       | SAE         | 810204401              | 810504401              | VU 38 SAE 65 PSI      |
| 65 psi               | 1/2       | 1/2       | SAE         | 810204402              | 810504402              | VU 12 SAE 65 PSI      |
| 65 psi               | 3/4       | 3/4       | SAE         | 810204403              | 810504403              | VU 34 SAE 65 PSI      |
| 65 psi               | 1         | 1         | SAE         | 810204404              | 810504404              | VU 100 SAE 65 PSI     |
| 65 psi               | 1 1/4     | 1 1/4     | SAE         | 810204405              | 810504405              | VU 114 SAE 65 PSI     |
| 65 psi               | 1 1/2     | 1 1/2     | SAE         | 810204406              | 810504406              | VU 112 SAE 65 PSI     |
| 65 psi               | 2         | 2         | SAE         | 810204407              | 810504407              | VU 200 SAE 65 PSI     |

\*AVAILABLE UPON SPECIAL REQUEST.

\*\*FEMALE X MALE NPT



### VU NPT Thread\_Check Valves

| CRACK POINT   | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE: | PART DESCRIPTION   |
|---------------|-----------|-----------|-------------|-------------|--------------------|
| VU NPT THREAD |           |           |             |             |                    |
| 14 psi        | 1/4       | 1/4       | NPT         | 810201200   | VU 14 NPT 14 PSI   |
| 14 psi        | 1/2       | 1/2       | NPT         | 810201201   | VU 12 NPT 14 PSI   |
| 14 psi        | 3/4       | 3/4       | NPT         | 810201202   | VU 34 NPT 14 PSI   |
| 14 psi        | 1         | 1         | NPT         | 810201203   | VU 100 NPT 14 PSI  |
| 14 psi        | 1 1/4     | 1 1/4     | NPT         | 810201204   | VU 114 NPT 14 PSI  |
| 14 psi        | 1 1/2     | 1 1/2     | NPT         | 810201205   | VU 112 NPT 14 PSI  |
| 21 psi        | 1         | 1         | NPT         | 810201300   | VU 100 NPT 21 PSI  |
| 57 psi        | 1/2       | 1/2       | NPT         | 810201409   | VU 12 NPT 57 PSI   |
| 115 psi       | 1/2       | 1/2       | NPT         | 810201600   | VU 12 NPT 115 PSI  |
| 115 psi       | 3/4       | 3/4       | NPT         | 810201601   | VU 34 NPT 115 PSI  |
| 145 psi       | 1         | 1         | NPT         | 810201602   | VU 100 NPT 145 PSI |
| 215 psi       | 1/4       | 1/4       | NPT         | 810201700   | VU 14 NPT 215 PSI  |
| 290 psi       | 1/2       | 1/2       | NPT         | 810201701   | VU 12 NPT 290 PSI  |

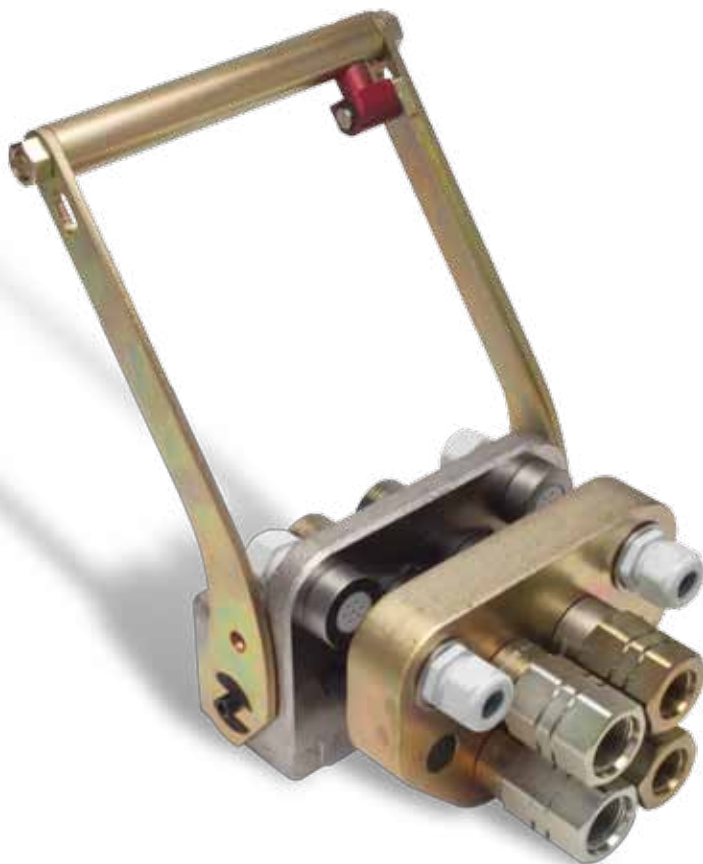


### VUS NPT Thread\_Soft Seat Check Valves

| CRACK POINT    | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE: | PART DESCRIPTION            |
|----------------|-----------|-----------|-------------|-------------|-----------------------------|
| VUS NPT THREAD |           |           |             |             |                             |
| 5 psi          | 3/4       | 3/4       | NPT         | 810701100   | VUS34 NPT 5 PSI SOFT SEAT   |
| 50 psi         | 3/4       | 1         | NPT         | 810201400   | VUS100 NPT 50 PSI SOFT SEAT |



# MP Series Hydraulic Multi-Coupling Plate



## Multi-Coupling Plate

The multi-coupling plate is a tool allowing the simultaneous couple and uncouple of a certain number of hydraulic and/or electrical lines. From a minimum of two to a maximum of ten lines can be simultaneously connected by a single, simple movement requiring very little force.

The energy lines can all have the same nominal diameter or each line can be different from the others according to the application. A special multi-coupling plate version provided with electrical connector can be supplied.

- Connects with residual pressure
- Mechanical connection eliminates brinelling effect
- Safety lock prevents unwanted disconnection
- Simple to use with a single movement applied by one arm only
- Ease of maintenance or replacement of quick couplings
- Cap and parking station available

### Overview

- Front end loaders
- Harvesting equipment
- Construction machinery
- Refrigeration
- Snow removal equipment
- Energy sector
- Any application requiring connection under residual pressure of multiple couplings

### Features

- Connect up to 25 MPa/ 3625 psi residual pressure
- Auto safety lock when connected
- Single hand operation
- Compact design
- Flat face couplers eliminate leakage
- Flat face couplers reduce contamination
- Guide mechanism eliminates cross connecting circuits



**< Cover Plate**

Heavy Duty Metal  
Dust Cover for Fixed Half

**Parking Station >**



**Cover Plate in  
Parking Station >**



**Mobile Half in  
Parking Station >**



**< Mobile Half**

Flat Face Couplers: Easy to  
Clean, No Leakage  
  
Guide Pins Eliminate Risk  
of Misaligned Circuit



**Fixed Half >**

Patented Coupling  
Design Prevents  
Seal Extrusion  
  
Wide Range of Port  
Threads Available  
  
Electrical  
Connector Options



**< Electrical  
Connector Option**

Corrosion Resistant  
Materials\Patented Design

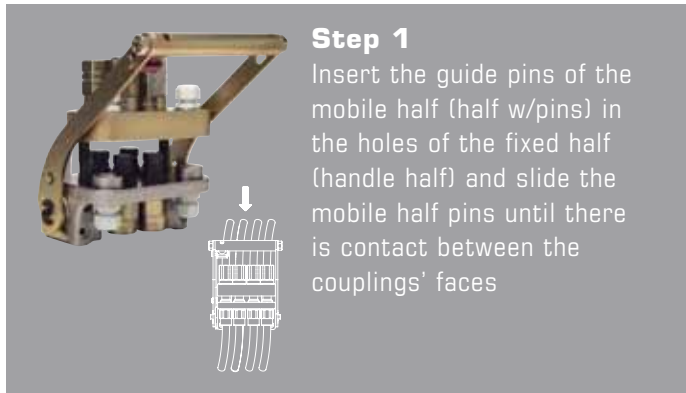
### The Stucchi Solution to Connecting Multiple Couplings Simultaneously

1. Ergonomic lever for easy connect/disconnect with residual pressure
2. Patented coupling design to connect/disconnect multiple couplings with high residual pressure
3. Flat face couplers eliminate environmental issue of leakage
4. No risk of misalignment with guide pin design
5. Couplers mounted with snap rings for ease of installation or replacement
6. Fixed half male couplers interchangeable with ISO 16028 style flat face coupling
7. Electrical connector option for electronic control systems
8. Easily mounted on new equipment or retrofit on pre-existing system

# Technical Characteristics & Instructions for Use

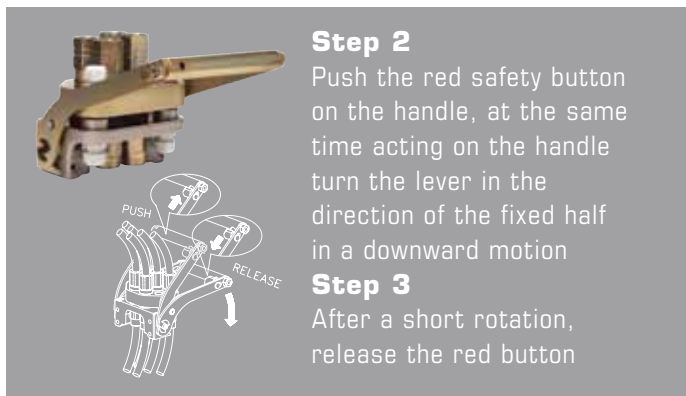
## GR Multi-Coupling Plate

### To Connect:



#### Step 1

Insert the guide pins of the mobile half (half w/pins) in the holes of the fixed half (handle half) and slide the mobile half pins until there is contact between the couplings' faces

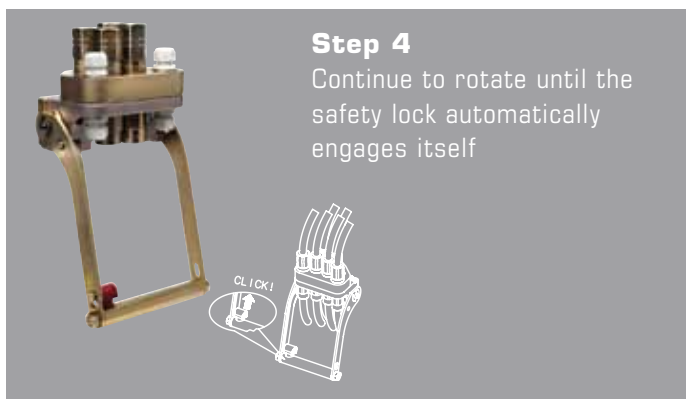


#### Step 2

Push the red safety button on the handle, at the same time acting on the handle turn the lever in the direction of the fixed half in a downward motion

#### Step 3

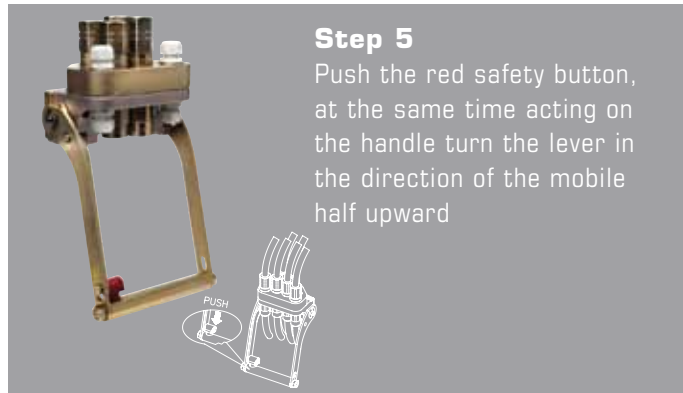
After a short rotation, release the red button



#### Step 4

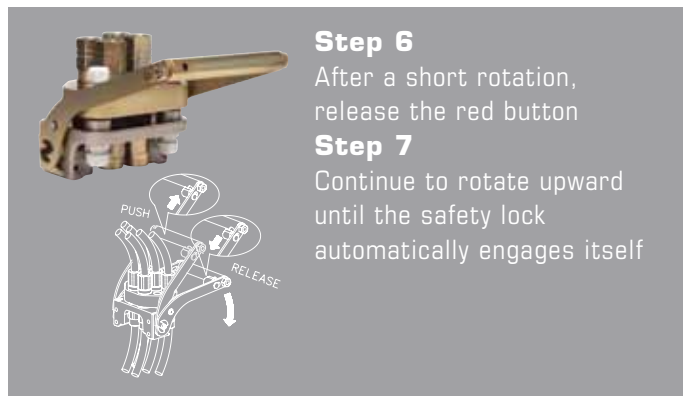
Continue to rotate until the safety lock automatically engages itself

### To Disconnect:



#### Step 5

Push the red safety button, at the same time acting on the handle turn the lever in the direction of the mobile half upward

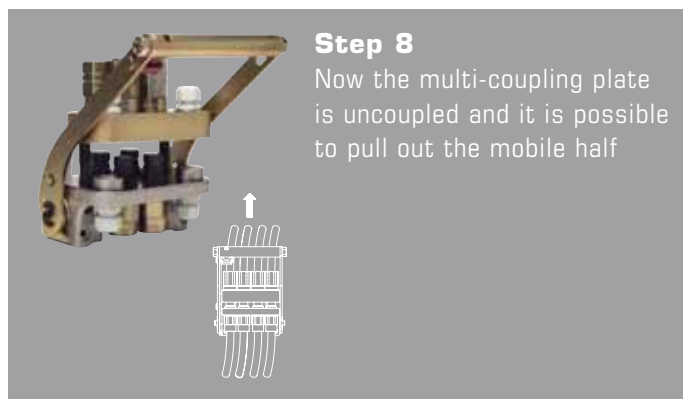


#### Step 6

After a short rotation, release the red button

#### Step 7

Continue to rotate upward until the safety lock automatically engages itself



#### Step 8

Now the multi-coupling plate is uncoupled and it is possible to pull out the mobile half

### WARNING!

- Do not force the lever without pushing the red safety button
- Do not use extensions or other tools to ease the rotating of the lever
- Do not connect the fixed half with the mobile half if dirt or other material is between them
- When the multi-coupling is disconnected, it is suggested to use the dust cover for the fixed half and the parking station for the mobile half

# Order Code Structure

## GR Multi-Coupling Plate



| ORDER CODE STRUCTURE                                                                                                                      |                                                                                       |                                                                                                                |                                                                                                                |                                    |                                                                        |                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 43                                                                                                                                        | 04                                                                                    | 08                                                                                                             | 08                                                                                                             | 04                                 | C                                                                      | 27                                                                                                   |
| SERIES NUMBER                                                                                                                             | NUMBER OF COUPLINGS                                                                   | SIZE OF COUPLER                                                                                                | PORT SIZE                                                                                                      | THREAD                             | SUFFIX                                                                 | OPTIONAL<br>NUMBER OF ELECTRICAL CONNECTIONS                                                         |
| <b>31</b> = GRB4<br><b>32</b> = GRI4<br><b>33</b> = GRT6<br><b>41</b> = GRP6<br><b>42</b> = GRM6<br><b>43</b> = GRU6<br><b>44</b> = GR5AA | <b>01</b> # OF COUPLINGS<br><b>02</b> # OF COUPLINGS<br><b>03</b> # OF COUPLINGS ETC. | <b>04</b> = 1/4<br><b>06</b> = 3/8<br><b>08</b> = 1/2<br><b>12</b> = 3/4<br><b>16</b> = 1<br><b>20</b> = 1 1/4 | <b>04</b> = 1/4<br><b>06</b> = 3/8<br><b>08</b> = 1/2<br><b>12</b> = 3/4<br><b>16</b> = 1<br><b>20</b> = 1 1/4 | <b>01</b> = NPT<br><b>04</b> = SAE | <b>FH</b> = FIX HALF<br><b>MH</b> = MOBILE HALF<br><b>C</b> = COMPLETE | <b>17</b><br>1 ELECTRICAL CONNECTION<br>Z PRONGS<br><b>27</b><br>2 ELECTRICAL CONNECTION<br>Z PRONGS |



| SERIES ORDER CODE PREFIX | COUPLER CODE # AND COUPLER SIZE<br>MULTI-COUPLER PLATE SERIES<br>MULTIPLE SIZE COUPLER | FAP 9<br>3/8 | FAP 13<br>1/2 | FAP 15<br>3/4 | FAP 17<br>1 | FAP 21<br>1 1/4 |
|--------------------------|----------------------------------------------------------------------------------------|--------------|---------------|---------------|-------------|-----------------|
| 31                       | GRB4                                                                                   | 2            | 2             |               |             |                 |
| 41                       | GRP6                                                                                   | 1            | 1             | 1             | 2           |                 |
| 32                       | GRI4                                                                                   | 2            |               | 1             | 1           |                 |
| 42                       | GRM6                                                                                   | 2            |               | 2             | 2           |                 |
| 35                       | GRC6                                                                                   | 3            | 1             | 1             | 1           |                 |
| 45                       | GRD5                                                                                   | 3            |               |               | 1           | 1               |
| 33                       | GRT6                                                                                   | 4            | 2             |               |             |                 |
| 43                       | GRU6                                                                                   | 2            | 2             |               | 1           | 1               |
| 34                       | GRZ5                                                                                   |              | 2             | 2             |             | 1               |
| 47                       | GR6AB                                                                                  |              | 4             |               | 2           |                 |
| 51                       | GR5AA                                                                                  |              | 2             |               | 3           |                 |
| 45                       | GRI4TB                                                                                 | 2            |               | 2             |             |                 |
| 46                       | GRK3                                                                                   | 1            |               |               |             | 2               |
| 48                       | GR6LL                                                                                  |              | 2             |               | 4           |                 |
| 47                       | GRM6AL                                                                                 | 2            |               | 4             |             |                 |
| 54                       | GRM6MC                                                                                 | 2            | 2             | 2             |             |                 |
| 45                       | GRI4SB                                                                                 | 2            | 1             | 1             |             |                 |
| 39                       | GR5-15                                                                                 |              |               | 5             |             |                 |
| 33                       | GR6-9                                                                                  | 6            |               |               |             |                 |
| 43                       | GR6-13                                                                                 |              | 6             |               |             |                 |
| 34                       | GR10-9                                                                                 | 10           |               |               |             |                 |
| 44                       | GR10-13                                                                                |              | 10            |               |             |                 |
| 56                       | GR7AA                                                                                  | 4            | 1             |               | 2           |                 |
| 57                       | GR7AB                                                                                  | 4            | 3             |               |             |                 |
| 58                       | GR8AA                                                                                  | 7            |               |               | 1           |                 |

The above list consists of the most popular stock items. Standard plates offer a variety of hydraulic coupler and electrical connector combinations too broad to list in this brochure. Use the Stucchi ordering code system to create a coupling plate configuration for your application or contact a Stucchi representative to discuss your application and a solution.

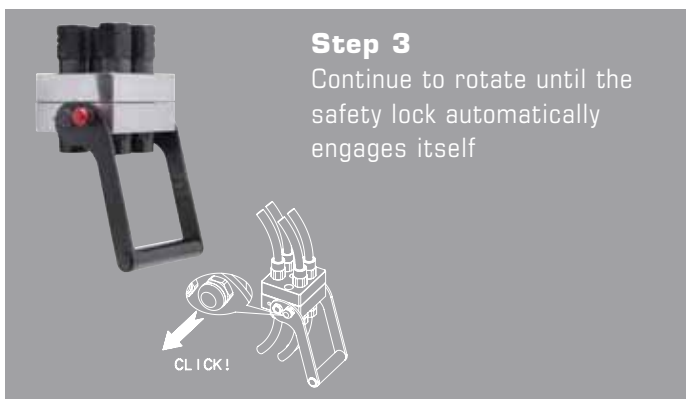
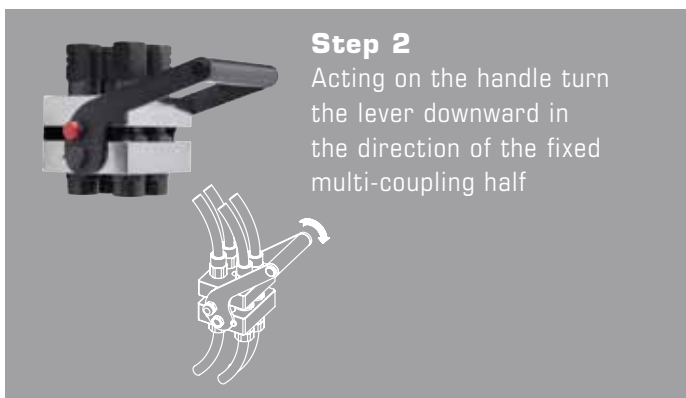
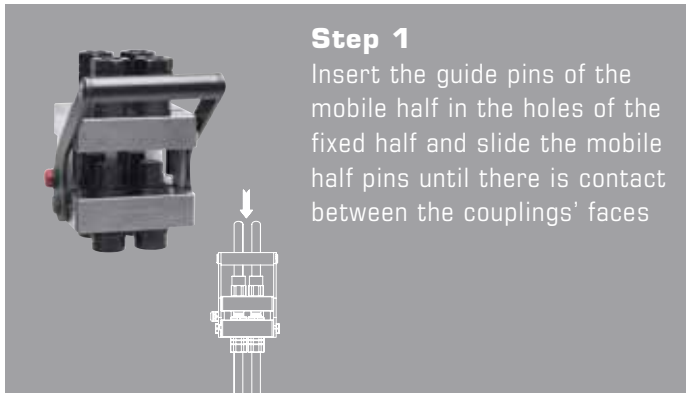
**Notes:** Plate capacities listed are the maximum number of couplers per plate. All plates can be made with fewer couplers. Electrical connectors can be added to any plates using 3/8 or 1/2 inch port spaces. Consult Stucchi USA for specific applications.



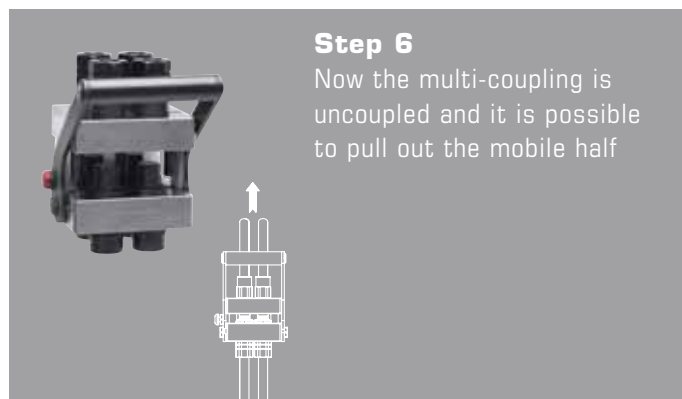
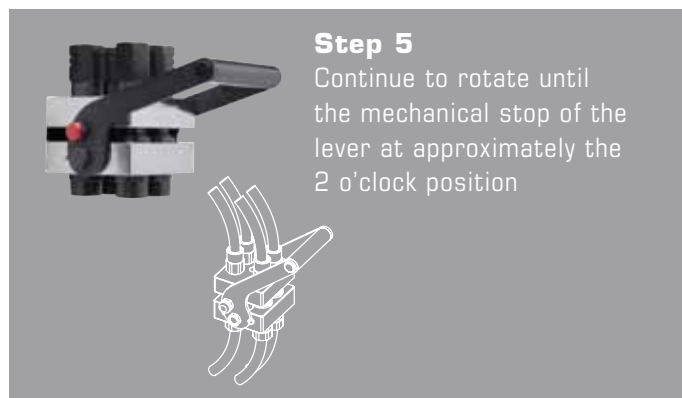
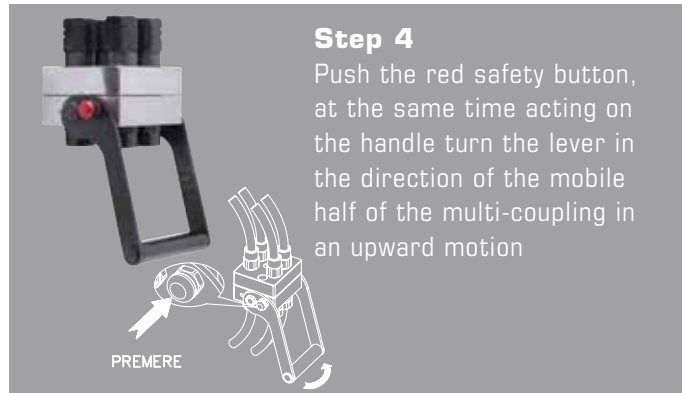
# Technical Characteristics & Instructions for Use

## DP Multi-Coupling Plate

### To Connect:



### To Disconnect:



### WARNING!

- Do not force the lever without pushing the red safety button
- Do not use extensions or other tools to ease the rotating of the lever
- Do not connect the fixed half with the mobile half if dirt or other material is between them
- When the multi-coupling is disconnected, it is suggested to use the dust cover for the fixed half and the parking station for the mobile half

# Order Code Structure DP Multi-Coupling Plate



| ORDER CODE STRUCTURE                                                               |                                                                                       |                                    |                                    |                                    |                                                                        |                                                                                                                                                          |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 42                                                                                 | 02                                                                                    | 08                                 | 08                                 | 01                                 | C                                                                      | 27                                                                                                                                                       |
| SERIES NUMBER                                                                      | NUMBER OF COUPLINGS                                                                   | SIZE OF COUPLER                    | PORT SIZE                          | THREAD                             | SUFFIX                                                                 | OPTIONAL<br>NUMBER OF ELECTRICAL CONNECTIONS                                                                                                             |
| <b>31</b> = DP2-9<br><b>32</b> = DP4-9<br><b>41</b> = DP2-13<br><b>42</b> = DP4-13 | <b>01</b> # OF COUPLINGS<br><b>02</b> # OF COUPLINGS<br><b>03</b> # OF COUPLINGS ETC. | <b>06</b> = 3/8<br><b>08</b> = 1/2 | <b>06</b> = 3/8<br><b>08</b> = 1/2 | <b>01</b> = NPT<br><b>04</b> = SAE | <b>FH</b> = FIX HALF<br><b>MH</b> = MOBILE HALF<br><b>C</b> = COMPLETE | <b>17</b><br>1 ELECTRICAL CONNECTION<br>7 PRONGS<br><b>16</b><br>1 ELECTRICAL CONNECTION<br>6 PRONGS<br><b>27</b><br>2 ELECTRICAL CONNECTION<br>7 PRONGS |



| SERIES ORDER CODE PREFIX | COUPLER SIZE AND CODE NO.<br>MULTI-COUPLER PLATE SERIES<br>SAME SIZE COUPLER | FAP 9<br>3/8 | FAP 13<br>1/2 |
|--------------------------|------------------------------------------------------------------------------|--------------|---------------|
| 31                       | DP2-9                                                                        | 2            | 0             |
| 41                       | DP2-13                                                                       | 0            | 2             |
| 32                       | DP4-9                                                                        | 4            | 0             |
| 42                       | DP4-13                                                                       | 0            | 4             |
| 35                       | DP3-9                                                                        | 3            | 0             |
| 45                       | DP3-13                                                                       | 0            | 3             |
| 36                       | DPJ-3                                                                        | 1            | 1             |

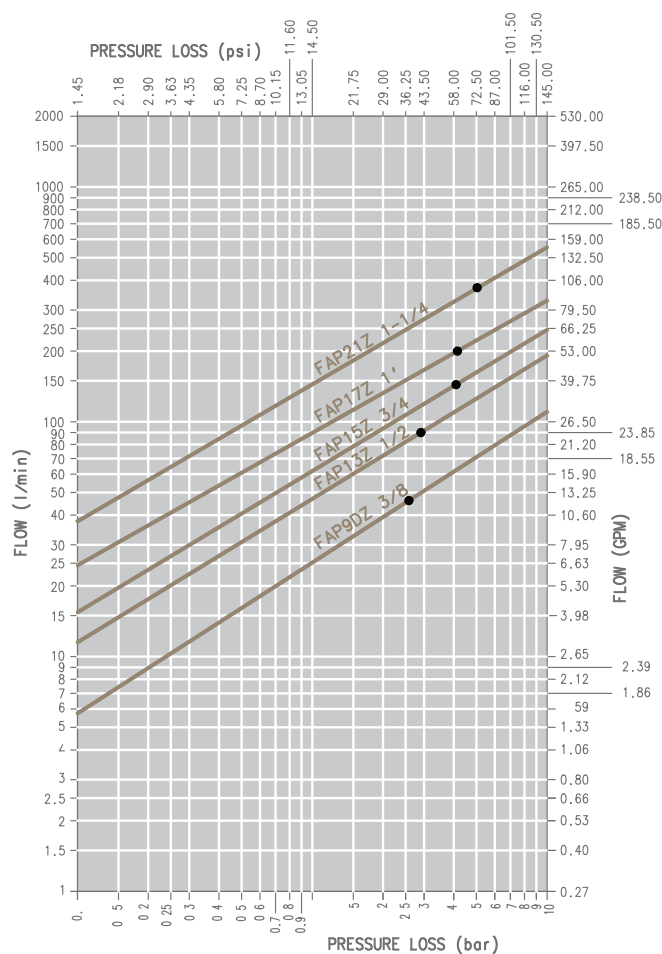
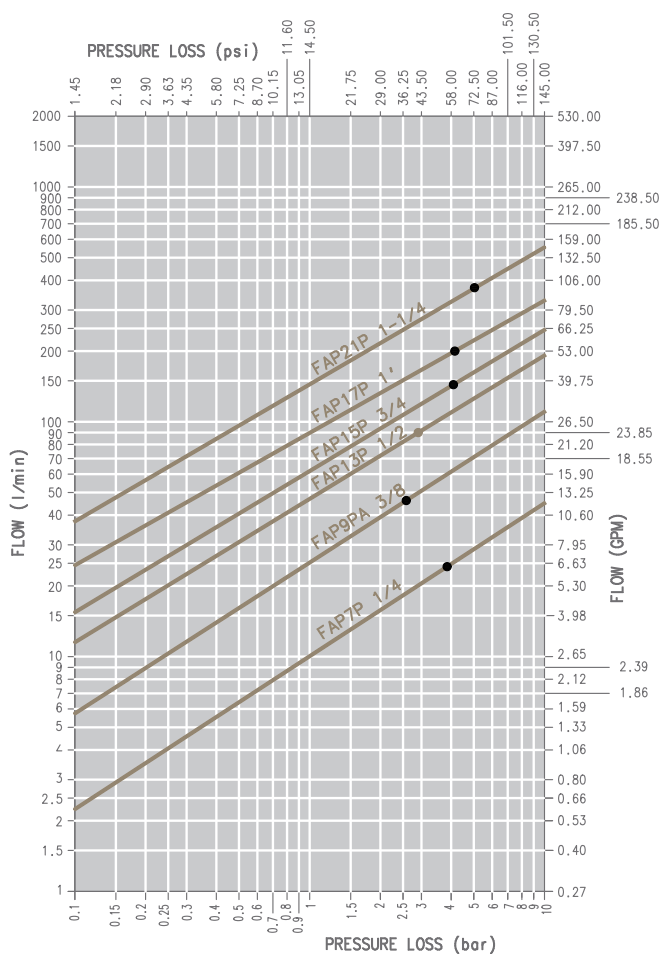
The above list consists of the most popular stock items. Standard plates offer a variety of hydraulic coupler and electrical connector combinations too broad to list in this brochure. Use the Stucchi ordering code system to create a coupling plate configuration for your application contact a Stucchi representative to discuss your application and a solution.

**Notes:** Plate capacities listed are the maximum number of couplers per plate. All plates can be made with fewer couplers. Electrical connectors can be added to any plates using 3/8 or 1/2 inch port spaces. Consult Stucchi USA for specific applications.

# MP Series Hydraulic Multi-Coupling Plate

| DESCRIPTION | SIZE  | MAX. OPERATING<br>PRESSURE COUPLED |      | BURST PRESSURE |       |      |       |        |       | MAX. RESIDUAL PRESSURE<br>DURING CONNECTION |      | SPILLAGE* |
|-------------|-------|------------------------------------|------|----------------|-------|------|-------|--------|-------|---------------------------------------------|------|-----------|
|             |       |                                    |      | COUPLED        |       | MALE |       | FEMALE |       |                                             |      |           |
|             |       | MPa                                | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   | MPa                                         | psi  |           |
| FAP         |       |                                    |      |                |       |      |       |        |       |                                             |      |           |
| FAP7        | 1/4   | 42                                 | 690  | 126            | 18270 | 126  | 18270 | 126    | 18270 | 30                                          | 4350 | 0.010     |
| FAP9        | 3/8   | 35                                 | 5075 | 120            | 17400 | 120  | 17400 | 100    | 14500 | 25                                          | 3625 | 0.012     |
| FAP13       | 1/2   | 33                                 | 4785 | 120            | 17400 | 120  | 17400 | 100    | 14500 | 25                                          | 3625 | 0.020     |
| FAP15       | 3/4   | 33                                 | 4785 | 120            | 17400 | 120  | 17400 | 100    | 14500 | 25                                          | 3625 | 0.110     |
| FAP17       | 1     | 33                                 | 4785 | 120            | 17400 | 120  | 17400 | 100    | 14500 | 25                                          | 3625 | 0.032     |
| FAP21       | 1 1/4 | 30                                 | 4350 | 100            | 14500 | 100  | 14500 | 80     | 11600 | 25                                          | 3625 | 0.035     |
| FAP Z       |       |                                    |      |                |       |      |       |        |       |                                             |      |           |
| FAP9Z       | 3/8   | 35                                 | 5075 | 120            | 17400 | 120  | 17400 | 100    | 14500 | 25                                          | 3625 | 0.012     |
| FAP13Z      | 1/2   | 33                                 | 4785 | 120            | 17400 | 120  | 17400 | 100    | 14500 | 25                                          | 3625 | 0.020     |
| FAP15Z      | 3/4   | 33                                 | 4785 | 120            | 17400 | 120  | 17400 | 100    | 14500 | 25                                          | 3625 | 0.110     |
| FAP17Z      | 1     | 33                                 | 4785 | 120            | 17400 | 120  | 17400 | 100    | 14500 | 25                                          | 3625 | 0.032     |
| FAP21Z      | 1 1/4 | 30                                 | 4350 | 100            | 14500 | 100  | 14500 | 80     | 11600 | 25                                          | 3625 | 0.035     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE





## FAP NPT and SAE Thread\_Replacement Couplers

| PART                  | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION    |
|-----------------------|-----------|-----------|-------------|------------|---------------------|
| <b>FAP NPT THREAD</b> |           |           |             |            |                     |
| COUPLER               | 3/8       | 1/2       | NPT         | 805001050  | F. FAP9PA 1/2 NPT   |
| NIPPLE                | 3/8       | 1/2       | NPT         | 805001051  | M. FAP9PA 1/2 NPT   |
| COUPLER               | 3/8       | 3/8       | NPT         | 805001052  | F. FAP9PA 3/8 NPT   |
| NIPPLE                | 3/8       | 3/8       | NPT         | 805001053  | M. FAP9PA 3/8 NPT   |
| COUPLER               | 3/8       | 3/8       | NPT         | 805001074  | F. FAP9PD 3/8 NPT   |
| NIPPLE                | 3/8       | 3/8       | NPT         | 805001075  | M. FAP9PD 3/8 NPT   |
| COUPLER               | 3/8       | 1/2       | NPT         | 805001076  | F. FAP9PD 1/2 NPT   |
| NIPPLE                | 3/8       | 1/2       | NPT         | 805001077  | M. FAP9PD 1/2 NPT   |
| COUPLER               | 1/2       | 1/2       | NPT         | 805001056  | F. FAP13P 1/2 NPT   |
| NIPPLE                | 1/2       | 1/2       | NPT         | 805001057  | M. FAP13P 1/2 NPT   |
| COUPLER               | 1/2       | 3/4       | NPT         | 805001058  | F. FAP13P 3/4 NPT   |
| NIPPLE                | 1/2       | 3/4       | NPT         | 805001059  | M. FAP13P 3/4 NPT   |
| COUPLER               | 3/4       | 3/4       | NPT         | 805001078  | F. FAP15P 3/4 NPT   |
| NIPPLE                | 3/4       | 3/4       | NPT         | 805001079  | M. FAP15P 3/4 NPT   |
| COUPLER               | 1         | 1         | NPT         | 805001082  | F. FAP17P 1 NPT     |
| NIPPLE                | 1         | 1         | NPT         | 805001083  | M. FAP17P 1 NPT     |
| COUPLER               | 1 1/4     | 1 1/4     | NPT         | 805001084  | F. FAP21P 1 1/4 NPT |
| NIPPLE                | 1 1/4     | 1 1/4     | NPT         | 805001085  | M. FAP21P 1 1/4 NPT |
| <b>FAP SAE THREAD</b> |           |           |             |            |                     |
| COUPLER               | 3/8       | 1/2       | SAE         | 805004020  | F. FAP9PD 1/2 SAE   |
| NIPPLE                | 3/8       | 1/2       | SAE         | 805004021  | M. FAP9PD 1/2 SAE   |
| COUPLER               | 3/8       | 1/2       | SAE         | 805004012  | F. FAP9PA 1/2 SAE   |
| NIPPLE                | 3/8       | 1/2       | SAE         | 805004013  | M. FAP9PA 1/2 SAE   |
| COUPLER               | 1/2       | 1/2       | SAE         | 805004004  | F. FAP13P 1/2 SAE   |
| NIPPLE                | 1/2       | 1/2       | SAE         | 805004005  | M. FAP13P 1/2 SAE   |
| COUPLER               | 1/2       | 3/4       | SAE         | 805004058  | F. FAP13P 3/4 SAE   |
| NIPPLE                | 1/2       | 3/4       | SAE         | 805004059  | M. FAP13P 3/4 SAE   |
| COUPLER               | 1/2       | 5/8       | SAE         | 805004006  | F. FAP13P 5/8 SAE   |
| NIPPLE                | 1/2       | 5/8       | SAE         | 805004007  | M. FAP13P 5/8 SAE   |
| COUPLER               | 3/4       | 3/4       | SAE         | 805004078  | F. FAP15P 3/4 SAE   |
| NIPPLE                | 3/4       | 3/4       | SAE         | 805004079  | M. FAP15P 3/4 SAE   |
| COUPLER               | 1         | 1         | SAE         | 805004082  | F. FAP17P 1 SAE     |
| NIPPLE                | 1         | 1         | SAE         | 805004083  | M. FAP17P 1 SAE     |
| COUPLER               | 1 1/4     | 1 1/4     | SAE         | 805004084  | F. FAP21P 1 1/4 SAE |
| NIPPLE                | 1 1/4     | 1 1/4     | SAE         | 805004085  | M. FAP21P 1 1/4 SAE |



COUPLER



NIPPLE

# MP Series Hydraulic Multi-Coupling Plate

## FAP Z NPT and SAE Thread\_Replacement Couplers

| PART                    | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION    |
|-------------------------|-----------|-----------|-------------|------------|---------------------|
| <b>FAP Z NPT THREAD</b> |           |           |             |            |                     |
| COUPLER                 | 3/8       | 3/8       | NPT         | 808201002  | F. FAP9AZ 3/8 NPT   |
| NIPPLE                  | 3/8       | 3/8       | NPT         | 808201003  | M. FAP9AZ 3/8 NPT   |
| COUPLER                 | 3/8       | 3/8       | NPT         | 808201004  | F. FAP9DZ 3/8 NPT   |
| NIPPLE                  | 3/8       | 3/8       | NPT         | 808201005  | M. FAP9DZ 3/8 NPT   |
| COUPLER                 | 1/2       | 1/2       | NPT         | 808201010  | F. FAP13Z 1/2 NPT   |
| NIPPLE                  | 1/2       | 1/2       | NPT         | 808201011  | M. FAP13Z 1/2 NPT   |
| COUPLER                 | 3/4       | 3/4       | NPT         | 808201014  | F. FAP15Z 3/4 NPT   |
| NIPPLE                  | 3/4       | 3/4       | NPT         | 808201015  | M. FAP15Z 3/4 NPT   |
| COUPLER                 | 1         | 1         | NPT         | 808201016  | F. FAP17Z 1 NPT     |
| NIPPLE                  | 1         | 1         | NPT         | 808201017  | M. FAP17Z 1 NPT     |
| COUPLER                 | 1 1/4     | 1 1/4     | NPT         | 808201018  | F. FAP21Z 1 1/4 NPT |
| NIPPLE                  | 1 1/4     | 1 1/4     | NPT         | 808201019  | M. FAP21Z 1 1/4 NPT |
| <b>FAP Z SAE THREAD</b> |           |           |             |            |                     |
| COUPLER                 | 3/8       | 1/2       | SAE         | 808204004  | F. FAP9DZ 1/2 SAE   |
| NIPPLE                  | 3/8       | 1/2       | SAE         | 808204005  | M. FAP9AZ 1/2 SAE   |
| COUPLER                 | 3/8       | 3/8       | SAE         | 808204024  | F. FAP9AZ 3/8 SAE   |
| NIPPLE                  | 3/8       | 3/8       | SAE         | 808204025  | M. FAP9AZ 3/8 SAE   |
| COUPLER                 | 3/8       | 3/8       | SAE         | 808204026  | F. FAP9DZ 3/8 SAE   |
| NIPPLE                  | 3/8       | 3/8       | SAE         | 808204027  | M. FAP9DZ 3/8 SAE   |
| COUPLER                 | 1/2       | 1/2       | SAE         | 808204028  | F. FAP13Z 1/2 SAE   |
| NIPPLE                  | 1/2       | 1/2       | SAE         | 808204029  | M. FAP13Z 1/2 SAE   |
| COUPLER                 | 1/2       | 3/4       | SAE         | 808204012  | F. FAP13Z 3/4 SAE   |
| NIPPLE                  | 1/2       | 3/4       | SAE         | 808204013  | M. FAP13Z 3/4 SAE   |
| COUPLER                 | 3/4       | 3/4       | SAE         | 808204014  | F. FAP15Z 3/4 SAE   |
| NIPPLE                  | 3/4       | 3/4       | SAE         | 808204015  | M. FAP15Z 3/4 SAE   |
| COUPLER                 | 1         | 1         | SAE         | 808204016  | F. FAP17Z 1 SAE     |
| NIPPLE                  | 1         | 1         | SAE         | 808204017  | M. FAP17Z 1 SAE     |
| COUPLER                 | 1 1/4     | 1 1/4     | SAE         | 808204018  | F. FAP21Z 1 1/4 SAE |
| NIPPLE                  | 1 1/4     | 1 1/4     | SAE         | 808204019  | M. FAP21Z 1 1/4 SAE |



COUPLER



NIPPLE

## Parking Stations

| ORDER CODE | DESCRIPTION             |
|------------|-------------------------|
| 815606009  | PARKING STATION GR3-9   |
| 815606001  | PARKING STATION GR6-9   |
| 815606003  | PARKING STATION GR6-13  |
| 815606025  | PARKING STATION GR10-13 |
| 815606029  | PARKING STATION DP2-9   |
| 815606039  | PARKING STATION DP4-9   |
| 815606037  | PARKING STATION DP2-13  |
| 815606041  | PARKING STATION DP4-13  |
| 815606013  | PARKING STATION GR10-9  |





## Multi-Coupling: Series GRE

### Low Pressure Applications

The multi-coupling plate is a tool allowing the simultaneous couple and uncouple of a certain number of water, air, oil and/or electrical lines. From a minimum of 6 to a maximum of 18 lines can be simultaneously connected by a single, simple movement requiring very little effort. The energy lines can all have the same nominal diameter with different media according to the application.

Offered coupler sizes: 3/8 and 1/2 with various ports, low pressure applications

- Connects with residual pressure: 2-3 bar
- Safe lock prevents unwanted disconnection
- Simple to use with a single movement applied by only one arm
- Ease of maintenance or replacement of quick couplings

### Overview

The Stucchi GRE Series of Multi-Coupling Plates is designed as a solution for industrial applications such as fast tool changes on injection molding & die cast equipment. Coupling plates reduce down-time between production runs wherever pneumatic, oil, water, and electrical circuits are to be connected to production machines or test benches, etc. This series is designed to meet the requirements of flexible manufacturing of present and future production machines and processes. The GRE series connects with little effort due to its superior guidance pin system. The GRE series only connects in one position, preventing any connection error by inversion of circuits.

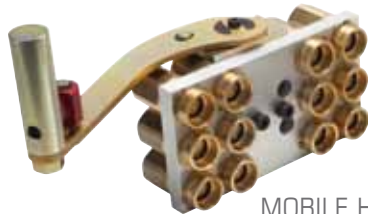
### Features & Options

- Compact aluminum manifold construction
- Port Options: female thread, hose barbs, 90 degree
- Valve options: Single shut-off, double shut-off, full flow
- Snap-ring mount allows easy installation and maintenance of couplers
- Auto-lock design prevents accidental disconnection
- Circuits: 6-12-18 positions

# GRE Series Instructions for Use

## GRE SERIES: INSTRUCTIONS FOR USE

LOCATE THE GUIDE PINS OF THE FIXED HALF AND THE RECEIVING PORT HOLES ON THE MOBILE HALF (HALF WITH THE HANDLE)



MOBILE HALF



FIXED HALF

01

Align and insert guide pins on fixed half into the mating port on the mobile half until pins are fully inserted.



02

Handle needs to be in the 12 o'clock starting position. Engage red locking mechanism and raise handle to the 12 o'clock starting position. Fixed half guide pins and mating ports will engage further to the proper starting position.



03

Engage red locking mechanism on the handle and move handle in a downward direction from 12 o'clock towards the 7 o'clock position.



04

Continue moving the handle until arriving at the 7 o'clock position. The handle will be locked in place once the locking pins are fully engaged and the mechanical click is heard.



05

To disconnect reverse process: engage red locking mechanism and raise handle from 7 o'clock position to 12 o'clock position. Pull mobile half from fixed half pins.





GRE Plate Plates\_Component Identification Page

| MOBILE HALF                                                                                                                             | FIXED HALF                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>ERGONOMIC<br/>LEVER FOR EASE<br/>OF CONNECTION</p> |  <p>GUIDE PINES<br/>ELIMINATE RISK OF<br/>MISALIGNED CIRCUIT</p> |
| DUST COVER FOR FIXED HALF                                                                                                               | FIXED HALF WITH DUST COVER                                                                                                                          |
|                                                       |                                                                  |
| MOBILE HALF PARKED IN PARKING STATION                                                                                                   | PARKING STATION                                                                                                                                     |
|                                                      |                                                                |

**The Stucchi Solution to Connecting Multiple Couplings Simultaneously for Low Pressure Circuits**

1. Ergonomic lever for easy connect/disconnect with minimal effort
2. No risk of misalignment with guide pin design
3. Couplers mounted with snap rings for ease of installation or replacement
4. Easily mounted on new equipment or retrofit on pre-existing system

# GRE Series Hydraulic Multi-Coupling Plate

| ORDER CODE STRUCTURE                                                                                                                      |                                                                                                   |                                    |                                    |                                    |                                                                        |                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 11                                                                                                                                        | 06                                                                                                | 06                                 | 06                                 | 01                                 | C                                                                      | VM                                                                                 |
| SERIES<br>NUMBER                                                                                                                          | NUMBER OF<br>COUPLINGS                                                                            | SIZE OF<br>COUPLER                 | PORT SIZE                          | THREAD                             | SUFFIX                                                                 | INDICATION OF<br>NO VALVES                                                         |
| <b>11</b> = GRE 6-9<br><b>12</b> = GRE12-9<br><b>13</b> = GRE18-9<br><b>21</b> = GRE 6-12<br><b>22</b> = GRE12-12<br><b>23</b> = GRE18-12 | <b>01</b> # OF<br>COUPLINGS<br><b>02</b> # OF<br>COUPLINGS<br><b>03</b> # OF<br>COUPLINGS<br>ETC. | <b>06</b> = 3/8<br><b>08</b> = 1/2 | <b>06</b> = 3/8<br><b>08</b> = 1/2 | <b>01</b> = NPT<br><b>04</b> = SAE | <b>FH</b> = FIX HALF<br><b>MH</b> = MOBILE HALF<br><b>C</b> = COMPLETE | SUFFIX OPTION<br>FOR NO VALVES<br>ONLY<br><b>VM</b> = NO<br>VALVES MALE<br>NIPPLES |



## MULTI-COUPLING PLATE SERIES OPTIONS: STANDARD STOCK PLATES

|          |                                                      |
|----------|------------------------------------------------------|
| GRE 6-9  | COMBINATION OF 3/8 INCH COUPLERS, UP TO 6 POSITIONS  |
| GRE12-9  | COMBINATION OF 3/8 INCH COUPLERS, UP TO 12 POSITIONS |
| GRE18-9  | COMBINATION OF 3/8 INCH COUPLERS UP TO 18 POSITIONS  |
| GRE 6-12 | COMBINATION OF 1/2 INCH COUPLERS UP TO 6 POSITIONS   |
| GRE12-12 | COMBINATION OF 1/2 INCH COUPLERS UP TO 6 POSITIONS   |
| GRE18-12 | COMBINATION OF 1/2 INCH COUPLERS UP TO 18 POSITIONS  |



## GRE Multi-Coupling Plate: Order Codes

### Common Stock Items



| ORDER CODE    | DESCRIPTION            | NUMBER OF COUPLERS | COUPLER SIZE | THREAD SIZE |
|---------------|------------------------|--------------------|--------------|-------------|
| 110006060601C | GRE 6-9 (6) 3/8 NPT    | 6                  | 3/8          | 3/8         |
| 120012060601C | GRE 12-9 (12) 3/8 NPT  | 12                 | 3/8          | 3/8         |
| 130018060601C | GRE 18-9 (18) 3/8 NPT  | 18                 | 3/8          | 3/8         |
| 210006080801C | GRE 6-12 (6) 1/2 NPT   | 6                  | 1/2          | 1/2         |
| 220012080801C | GRE 12-12 (12) 1/2 NPT | 12                 | 1/2          | 1/2         |
| 230018080801C | GRE 18-12 (18) 1/2 NPT | 18                 | 1/2          | 1/2         |

THE ABOVE LIST CONSISTS OF THE MOST POPULAR STOCK ITEMS. STANDARD PLATES OFFER A VARIETY OF STANDARD COUPLER COMBINATIONS TOO BROAD TO LIST IN THIS CATALOG. USE THE STUCCHI ORDERING CODE SYSTEM TO CREATE A COUPLING PLATE CONFIGURATION FOR YOUR APPLICATION OR FILL OUT AND FAX THE CUSTOM PLATE FORM FOR NON-STANDARD CONFIGURATIONS (AVAILABLE ONLINE).

### GRE Series Replacement Couplers

| ORDER CODE | BODY SIZE | THREAD SIZE | THREAD TYPE | PART DESCRIPTION |
|------------|-----------|-------------|-------------|------------------|
| 802101000  | 3/8       | 3/8         | NPT         | F. CSF9BN        |
| 802101003  | 3/8       | 3/8         | NPT         | M. CSM9BN        |
| 802101004  | 1/2       | 1/2         | NPT         | F. CSF12BN       |
| 802101005  | 1/2       | 1/2         | NPT         | M. CSM12BN       |

PRICES FOR PLATES AND  
COMPONENTS AVAILABLE  
UPON REQUEST



### Parking Stations

| ORDER CODE | PART DESCRIPTION           |
|------------|----------------------------|
| 815606033  | PARKING STATION ALL PLATES |



### Dust Cover

| ORDER CODE | PART DESCRIPTION                                 |
|------------|--------------------------------------------------|
| 81560609DC | FIXED PLATE DUST COVER FOR GRE 6 POSITION PLATE  |
| 81561212DC | FIXED PLATE DUST COVER FOR GRE 12 POSITION PLATE |
| 81561809DC | FIXED PLATE DUST COVER FOR GRE 18 POSITION PLATE |

# Saturn Block



## Saturn Block

### Technical Features & Options

- Interchangeability of couplings: equipped with ISO 16028 couplings size 1/2, 5/8, and 3/4 inch. Drain line is ISO 16028 size 3/8 or 1/2 inch male
- Couplings type: flat face
- Connection system: push to connect
- Disconnection system: pulling back the sleeve of the female coupling
- Connection with residual pressure: after draining the pressure with the knob
- Disconnection with residual pressure: after draining the pressure with the knob
- Threads available: 3/4 JIC for pressure lines, 3/8 SAE for drain line
- Threads on request: metric DIN, ORFS, SAE, BSP and others
- Surface treatment: CrIII zinc plated
- Seals: standard in NBR (Nitrile), POM
- Anti-extrusion rings: PTFE

### Main Applications

- Skid steers
- Excavators
- Mobile construction equipment
- Mini-excavators

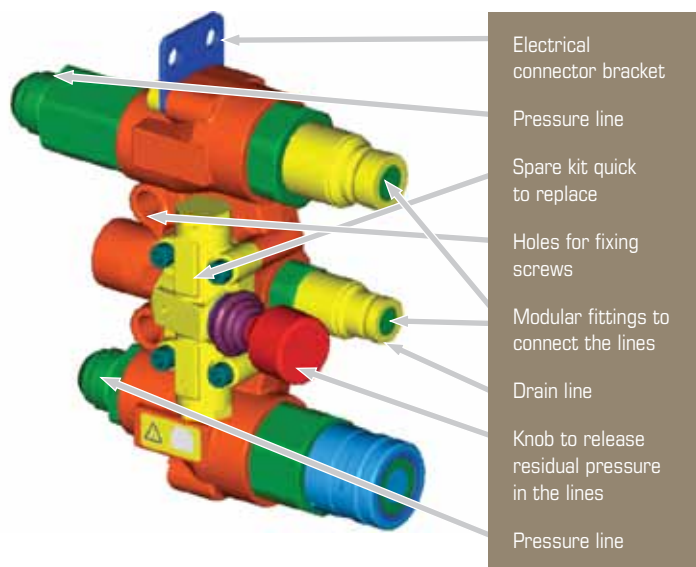
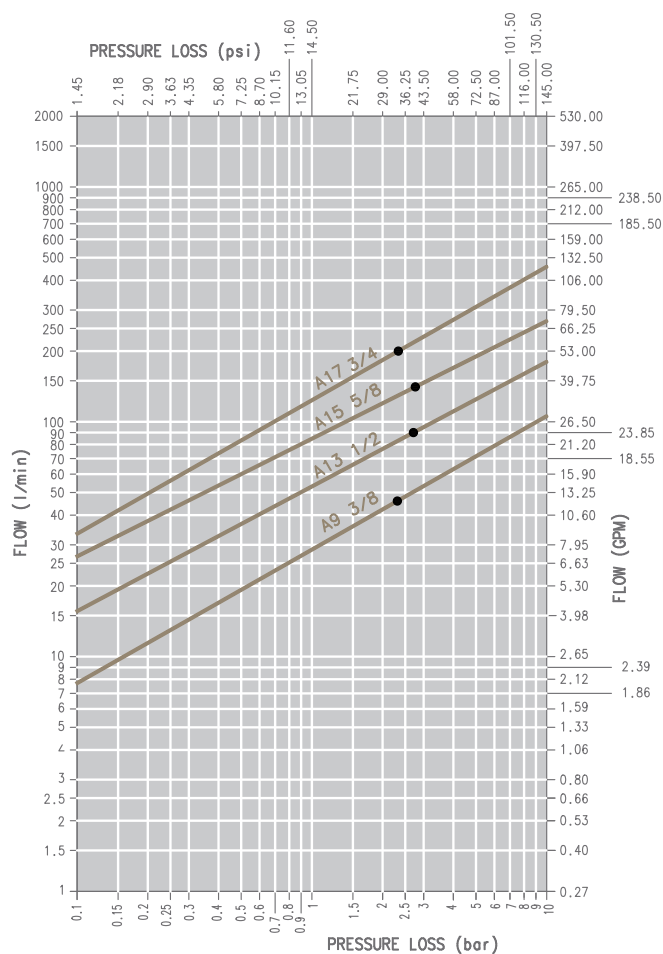
### Features & Options

- User-friendly relief system allows for easy connection/disconnection with residual pressure
- Drain the residual pressure before connection and disconnection, allowing the connection without pressure and without effort in order to reduce injury risk
- Equipped with ISO 16028 interchangeable size 1/2 male & female parts flat face. Drain line in the middle is 3/8 size male.
- Direct replacement for other connect under pressure systems
- Low cost field replacement couplers
- Modular design allows for optional size 5/8 or 3/4 body male & female for high flow circuits and 1/2 drain line



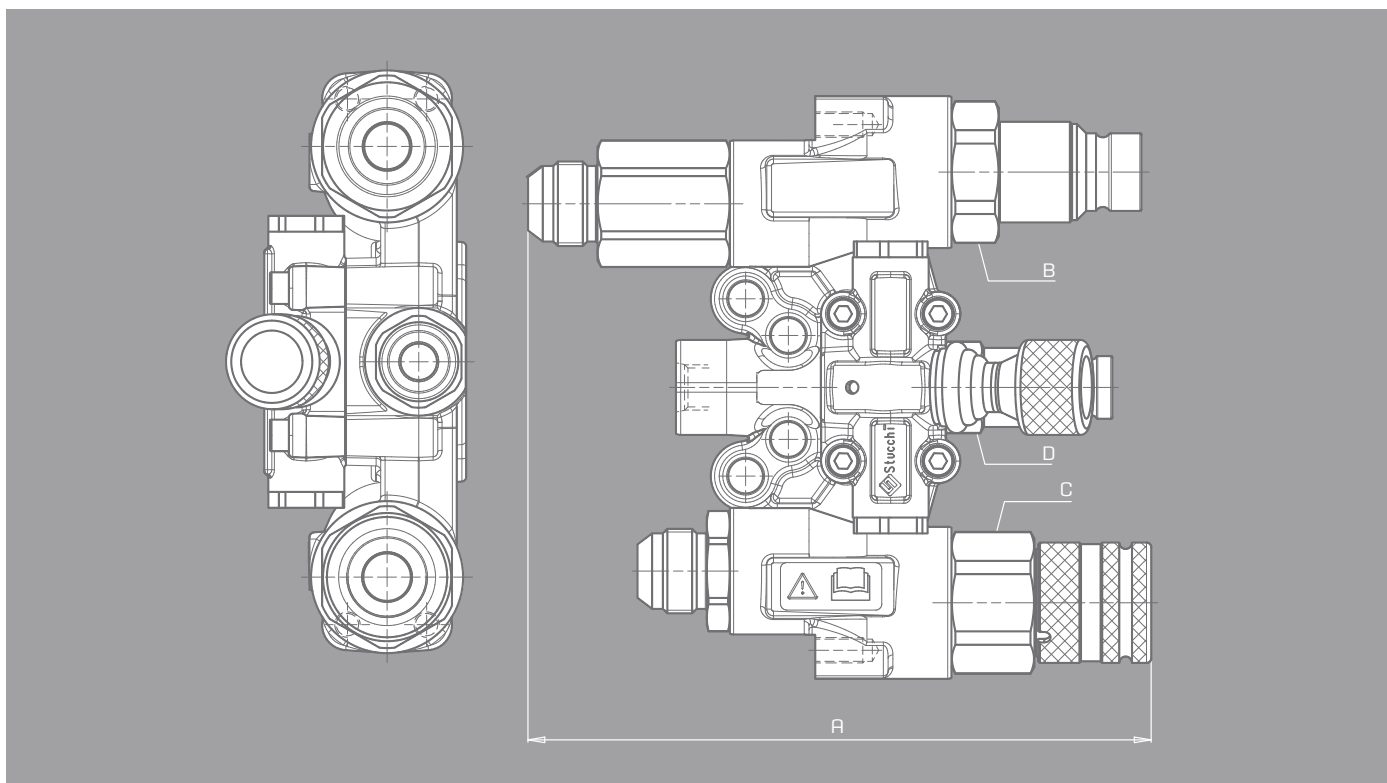
| DESCRIPTION     | SIZE | MAX. OPERATING PRESSURE COUPLED |      | MAX. RESIDUAL PRESSURE DURING CONNECTION |      | SPILLAGE* |
|-----------------|------|---------------------------------|------|------------------------------------------|------|-----------|
|                 |      | MPa                             | psi  | MPa                                      | psi  |           |
| SATURN BLOCK 13 | 1/2  | 35                              | 5075 | 25                                       | 3625 | 0.020     |
| SATURN BLOCK 15 | 5/8  | 35                              | 5075 | 25                                       | 3625 | 0.026     |
| SATURN BLOCK 17 | 3/4  | 35                              | 5075 | 25                                       | 3625 | 0.032     |

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE.



# Saturn Block

## Saturn Block: Size Diagram



| DESCRIPTION     | SATURN BLOCK CODE | BODY SIZE | UNIT | A     | B    | C    | D    | UP      | DRAIN   | DOWN    | UNIT | WEIGHT |
|-----------------|-------------------|-----------|------|-------|------|------|------|---------|---------|---------|------|--------|
| SATURN BLOCK 13 | 808800102         | 1/2       | mm   | 196.8 | 41   | 41   | 27   | DN 12.5 | DN 10   | DN 12.5 | Kg   | 4.312  |
|                 |                   |           | inch | 7.75  | 1.61 | 1.61 | 1.06 | 1/2     | 3/8     | 1/2     | lb   | 9.506  |
| SATURN BLOCK 15 | 808800103         | 5/8       | mm   | 203.7 | 41   | 41   | 27   | DN 16   | DN 10   | DN 16   | Kg   | 4.437  |
|                 |                   |           | inch | 8.02  | 1.61 | 1.61 | 1.06 | 5/8     | 3/8     | 5/8     | lb   | 9.782  |
| SATURN BLOCK 17 | 808800104         | 3/4       | mm   | 224   | 46   | 46   | 32   | DN 19   | DN 12.5 | DN 19   | Kg   | 5.052  |
|                 |                   |           | inch | 8.82  | 1.81 | 1.81 | 1.26 | 3/4     | 1/2     | 3/4     | lb   | 11.138 |

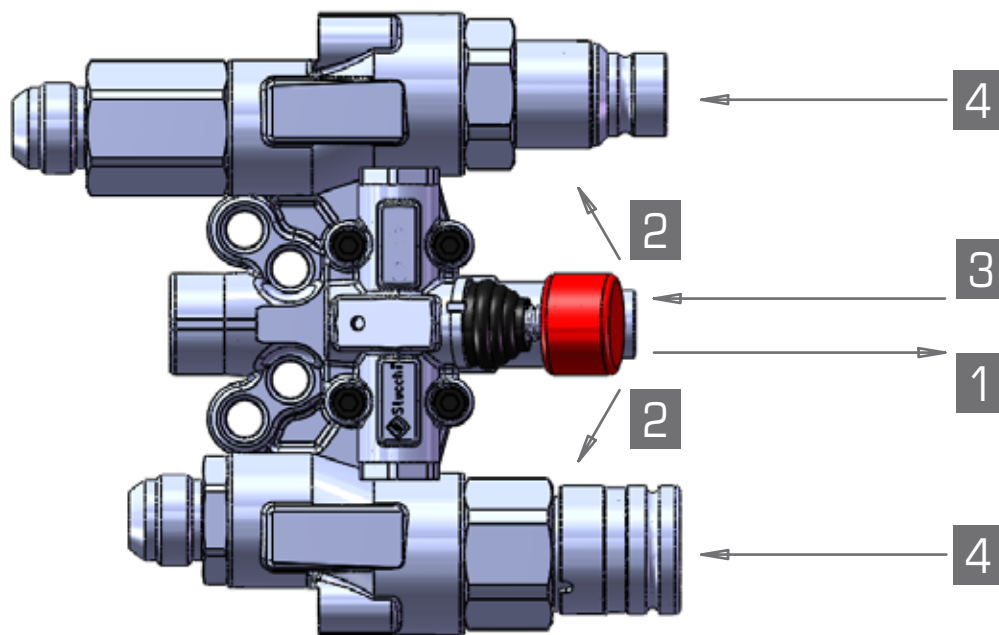
## Saturn Block: Order Codes

| DESCRIPTION     | ORDER CODE | BODY SIZE: COUPLER & NIPPLE | DRAIN LINE SIZE |
|-----------------|------------|-----------------------------|-----------------|
| SATURN BLOCK 13 | 808800102  | 1/2                         | 3/8             |
| SATURN BLOCK 15 | 808800103  | 5/8                         | 3/8             |
| SATURN BLOCK 17 | 808800104  | 3/4                         | 1/2             |
| SATURN BLOCK 17 | 808800105  | 3/4                         | 3/8             |

\* USE "R" SUFFIX TO REVERSE POSITIONS OF COUPLER & NIPPLE IN THE SATURN BLOCK



## Saturn Block: How to Relieve Pressure

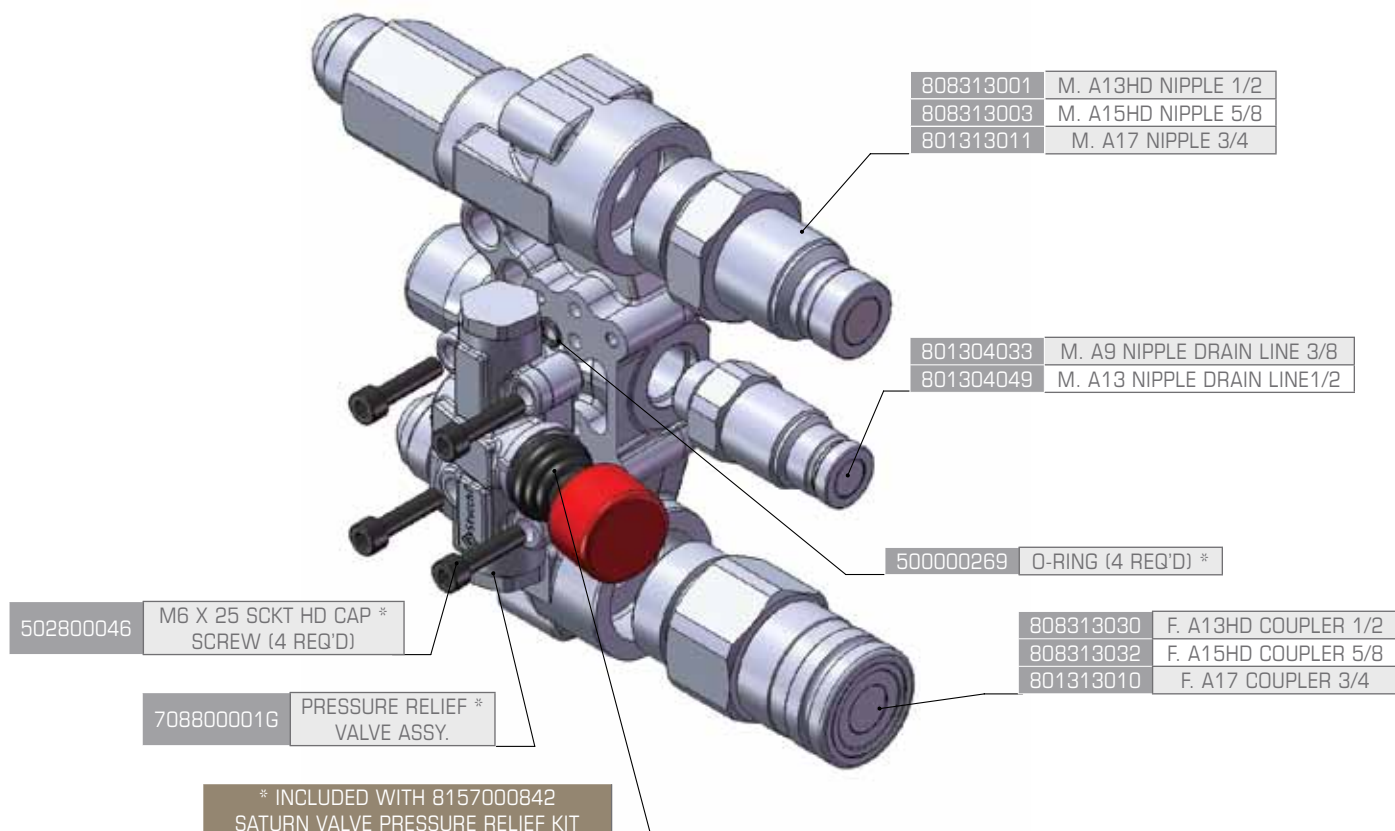


### How to Operate the Pressure Relief Valve on the Saturn Block

1. Pull red knob on pressure relief valve out
2. Pull red knob up/down to relieve pressure
3. Release red knob, allowing it return to starting position
4. Insert coupler/nipple into the Saturn Block



## Saturn Block: Replacment Parts List



| PART      | ORDER CODE | DESCRIPTION               |
|-----------|------------|---------------------------|
| COUPLER   | 808313030  | F. A13HD COUPLER          |
| NIPPLE    | 808313001  | M. A13HD NIPPLE           |
| COUPLER   | 808313032  | F. A15HD COUPLER          |
| NIPPLE    | 808313003  | M. A15HD NIPPLE           |
| COUPLER   | 801313010  | F. A17 COUPLER            |
| NIPPLE    | 801313011  | M. A17 NIPPLE             |
| NIPPLE    | 801304033  | M. A9 NIPPLE DRAIN LINE   |
| NIPPLE    | 801304049  | M. A13 NIPPLE DRAIN LINE  |
| VALVE KIT | 815700852  | SATURN VALVE RELIEF KIT * |



## Stucchi: Specialty Coupler

Specialty Couplers designed as solutions to customer applications. Replacement couplers for custom applications such as automation plates for cooling systems and hydraulics.

Type of fluids: cooling water (water and glycol, water and oil), hydraulic oil, grease.

Main feature: Minimum spilling during disconnection & low air inclusion at connection. 90 degree transmission of the fluid. Connectable under low pressure for the oil version of CQB series.

### Specialty Couplers\_Stucchi Exclusive

| PART                                                   | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION         |
|--------------------------------------------------------|-----------|-----------|-------------|------------|--------------------------|
| <b>STUCCHI EXCLUSIVE SPECIALTY COUPLING CQB SERIES</b> |           |           |             |            |                          |
| COUPLER                                                | 1/2       | 1/2       | BSP         | 802000114  | F. CQBF12 1/2 BSP        |
| NIPPLE                                                 | 1/2       | 1/2       | BSP         | 802000115  | M. CQBM12P 1/2 BSP       |
| COUPLER                                                | 3/4       | 3/4       | BSP         | 802000116  | F. CQBF20 3/4 BSP        |
| NIPPLE                                                 | 3/4       | 3/4       | BSP         | 802000117  | M. CQBM20 3/4 BSP        |
| COUPLER                                                | 2         | 2         | BSP         | 802000130  | F. CQBF45 2 BSP          |
| NIPPLE                                                 | 2         | 2         | BSP         | 802000131  | M. CQBM45 2'BSP          |
| COUPLER                                                | 2         | 2 1/2     | BSP EXT     | 802000216  | F. CQBF45E 2-1/2 BSP EST |
| COUPLER                                                | 2 1/2     | 3         | BSP EXT     | 802000220  | F. CQBF60E 3 BSP EST     |
| NIPPLE                                                 | 2 1/2     | 3         | BSP         | 802000223  | M. CQBM60E 3 BSP         |
| COUPLER                                                | 2         | 1 1/2     | BSP         | 802000226  | F. CQLF45E 1-1/2 BSP     |
| NIPPLE                                                 | 2         | 1 1/2     | BSP         | 802000227  | M. CQLM45E 1-1/2 BSP     |
| COUPLER                                                | 2         | 2 1/2     | BSP EXT     | 802000228  | F. CQLF45E 2-1/2 BSP EST |
| COUPLER                                                | 2         | 2         | BSP EXT     | 802000232  | F. CQLF45E 2' BSP EST    |
| NIPPLE                                                 | 2         | 2         | BSP         | 802000233  | M. CQLM45E 2 BSP         |
| COUPLER                                                | 2         | 2         | BSP EXT     | 802000238  | F. CQBF45E 2 BSP EST     |
| NIPPLE                                                 | 2         | 1 1/2     | BSP-90      | 802050201  | M. CQLM45E 1-1/2 BSP 90  |
| NIPPLE                                                 | 2 1/2     | 3         | BSP-90      | 802050203  | M. CQLM60E ' BSP 90      |
| <b>STUCCHI EXCLUSIVE SPECIALTY COUPLING FIRG SON</b>   |           |           |             |            |                          |
| COUPLER                                                | 1/2       | 1/2       | BSP         | 805700008  | F. FIRG 12A SON BSP      |
| NIPPLE                                                 | 1/2       | 1/2       | BSP         | 805700009  | M. FIRG 12A SON BSP      |
| COUPLER                                                | 3/4       | 3/4       | BSP         | 805700010  | F. FIRG 34B SON BSP      |
| NIPPLE                                                 | 3/4       | 3/4       | BSP         | 805700011  | M. FIRG 34B SON BSP      |

# Flat Face Series Protective Caps and Plugs



## Series: Protective Plugs

These are useful accessories which prevent dust, water or mud from entering the quick couplings and lengthen their lives. This is particularly important in the building industry in general and in earth moving where large quantities of materials such as sand, earth, etc. are moved.

- Material: PVC/rubber blend for flat face, and poppet series
- Material: aluminum of IVHP, VP, VEP series
- Nylon flip caps available on flat face
- Color: red is standard with options for black, blue, yellow, green, etc.
- In the description, F is the designation for the coupler, M is the designation for nipple



FEMALE CAP



MALE CAP

### FIRG and "A" Premier Flat Face Series\_ Coupler Dust Cap | Nipple Dust Cap

| BODY SIZE               | PORT SIZE     | ORDER CODE | DESCRIPTION             |
|-------------------------|---------------|------------|-------------------------|
| COUPLER/FEMALE DUST CAP |               |            |                         |
| 1/4                     | 1/4           | 815100000  | CAP F. FIRG14/A7        |
| 3/8                     | 3/8           | 815100002  | CAP F. FIRG38/A9/FIRG12 |
| 1/2                     | 1/2           | 815100004  | CAP F. FIRG12A/A13      |
| 1/2                     | 1/2, 5/8, 3/4 | 815100006  | CAP F. FIRG34/A13       |
| 5/8                     | 3/4           | 815100008  | CAP F. FIRG34B/A15      |
| 3/4                     | 3/4, 1        | 815100010  | CAP F. FIRG100/A17      |
| 1                       | 1, 1 1/4      | 815100012  | CAP F. FIRG1-1/4/A21    |
| 1 1/4                   | 1 1/4         | 815105020  | CAP F. A25              |
| 1 1/2                   | 1 1/2         | 815100014  | CAP F. FIRG112/A30      |
| 2                       | 2             | 815100016  | CAP F. FIRG 200         |
| NIPPLE/MALE DUST CAP    |               |            |                         |
| 1/4                     | 1/4           | 815100001  | CAP M. FIRG14/A7        |
| 3/8                     | 3/8           | 815100003  | CAP M. FIRG38/A9        |
| 3/8                     | 3/8, 1/2      | 815100005  | CAP M. FIRG12/A9        |
| 1/2                     | 1/2           | 815100007  | CAP M. FIRG12A/A13      |
| 1/2                     | 1/2, 5/8, 3/4 | 815100009  | CAP M. FIRG34/A13       |
| 5/8                     | 3/4           | 815100011  | CAP M. FIRG34B/A15      |
| 3/4                     | 3/4, 1        | 815100013  | CAP M. FIRG100/A17      |
| 1                       | 1, 1 1/4      | 815100015  | CAP M. FIRG1-1/4/A21    |
| 1 1/4                   | 1 1/4         | 815205021  | CAP M. A25              |
| 1 1/2                   | 1 1/2         | 815100017  | CAP M. FIRG112/A30      |
| 2                       | 2             | 815100019  | CAP M. FIRG 200         |

ADDITIONAL COLORS AVAILABLE UPON REQUEST

# Protective Caps and Plugs



## VP Series\_Aluminum | Coupler Dust Cap | Nipple Dust Plug

| BODY SIZE                  | ORDER CODE | DESCRIPTION  |
|----------------------------|------------|--------------|
| <b>VP COUPLER DUST CAP</b> |            |              |
| 1/4                        | 815300000  | CAP F. VP7R  |
| 3/8                        | 815300002  | CAP F. VP9R  |
| 1/2                        | 815300004  | CAP F. VP13R |
| 3/4                        | 815300006  | CAP F. VP15R |
| 1                          | 815300008  | CAP F. VP17R |
| 1 1/4                      | 815300010  | CAP F. VP21R |
| 1 1/2                      | 815300012  | CAP F. VP30R |
| <b>VP NIPPLE DUST PLUG</b> |            |              |
| 1/4                        | 815300001  | CAP M. VP7R  |
| 3/8                        | 815300003  | CAP M. VP9R  |
| 1/2                        | 815300005  | CAP M. VP13R |
| 3/4                        | 815300007  | CAP M. VP15R |
| 1                          | 815300009  | CAP M. VP17R |
| 1 1/4                      | 815300011  | CAP M. VP21R |
| 1 1/2                      | 815300013  | CAP M. VP30R |



CAP



PLUG

## IRB Series\_Coupler Dust Plug | Nipple Dust Cap

| BODY SIZE            | ORDER CODE | DESCRIPTION   |
|----------------------|------------|---------------|
| <b>IRB DUST PLUG</b> |            |               |
| 1/8                  | 815000030  | CAP F. IRB18  |
| 1/4                  | 815000032  | CAP F. IRB14  |
| 3/8                  | 815000034  | CAP F. IRB38  |
| 1/2                  | 815000036  | CAP F. IRB12  |
| 3/4                  | 815000038  | CAP F. IRB34  |
| 1                    | 815000040  | CAP F. IRB100 |
| <b>IRB DUST CAP</b>  |            |               |
| 1/4                  | 815000031  | CAP M. IRB18  |
| 1/4                  | 815000033  | CAP M. IRB14  |
| 3/8                  | 815000035  | CAP M. IRB38  |
| 1/2                  | 815000037  | CAP M. IRB12  |
| 3/4                  | 815000039  | CAP M. IRB34  |
| 1                    | 815000041  | CAP M. IRB100 |



PLUG



CAP

# Protective Caps and Plugs



PLUG



CAP

## VEP and VEP HD Series\_Aluminum | Coupler Dust Plug | Nipple Dust Cap

| BODY SIZE                               | ORDER CODE | DESCRIPTION   |
|-----------------------------------------|------------|---------------|
| <b>VEP AND VEP HD COUPLER DUST PLUG</b> |            |               |
| 1/4                                     | 815300030  | CAP F. VEP7R  |
| 3/8                                     | 815300032  | CAP F. VEP9R  |
| 1/2                                     | 815300034  | CAP F. VEP13R |
| 3/4                                     | 815300036  | CAP F. VEP15R |
| 1                                       | 815300038  | CAP F. VEP17R |
| 1 1/4                                   | 815300040  | CAP F. VEP21R |
| 1 1/2                                   | 815300028  | CAP F. VEP30R |
| 2                                       | 815300042  | CAP F. VEP45  |
| <b>VEP AND VEP HD NIPPLE DUST CAP</b>   |            |               |
| 1/4                                     | 815300031  | CAP M. VEP7R  |
| 3/8                                     | 815300033  | CAP M. VEP9R  |
| 1/2                                     | 815300035  | CAP M. VEP13R |
| 3/4                                     | 815300037  | CAP M. VEP15R |
| 1                                       | 815300039  | CAP M. VEP17R |
| 1 1/4                                   | 815300041  | CAP M. VEP21R |
| 1 1/2                                   | 815300029  | CAP M. VEP30R |
| 2                                       | 815300043  | CAP M. VEP45  |



PLUG



CAP

## ISO A BIR Series\_Coupler Dust Plug | Nipple Dust Cap

| BODY SIZE                           | ORDER CODE | DESCRIPTION    |
|-------------------------------------|------------|----------------|
| <b>ISO A BIR COUPLER DUST PLUGS</b> |            |                |
| 1/4                                 | 815000012  | CAP F. BIR 14  |
| 3/8                                 | 815000014  | CAP F. BIR38   |
| 1/2                                 | 815000004  | CAP F. BIR12   |
| 3/4                                 | 815000016  | CAP F. BIR 34  |
| 1                                   | 815000018  | CAP F. BIR 100 |
| <b>ISO A BIR COUPLER DUST CAPS</b>  |            |                |
| 1/4                                 | 815000013  | CAP M. BIR 14  |
| 3/8                                 | 815000015  | CAP M. BIR38   |
| 1/2                                 | 815000005  | CAP M. BIR12   |
| 3/4                                 | 815000017  | CAP M. BIR 34  |
| 1                                   | 815000019  | CAP M. BIR100  |

## Ag Series IR and IRV\_Coupler Dust Plug | Nipple Dust Cap

| BODY SIZE                             | ORDER CODE | DESCRIPTION                |
|---------------------------------------|------------|----------------------------|
| <b>IR AND IRV COUPLER DUST PLUGS</b>  |            |                            |
| 1/4                                   | 815000000  | CAP F. IR14/IR14V          |
| 3/8                                   | 815000002  | CAP F. IR38/IR38V          |
| 1/2                                   | 815000004  | CAP F. IR12/IRS12/F. BIR12 |
| 3/4                                   | 815000006  | CAP F. IR 34/IR34V         |
| 1                                     | 815000008  | CAP F. IR 100/IR100V       |
| <b>IR &amp; IRV COUPLER DUST CAPS</b> |            |                            |
| 1/4                                   | 815000001  | CAP M. IR14/IR14V          |
| 3/8                                   | 815000003  | CAP M. IR38 IR38V          |
| 1/2                                   | 815000005  | CAP M. IR1/M. BIR12        |
| 3/4                                   | 815000007  | CAP M. IR34/IR34V          |
| 1                                     | 815000009  | CAP M. IR100/IR100V        |



| ORDER CODE                                       | DESCRIPTION          |
|--------------------------------------------------|----------------------|
| <b>BIR SERIES REPAIR KIT - ISO A INTERCHANGE</b> |                      |
| 815700170                                        | KIT F. BIR14         |
| 815700172                                        | KIT F. BIR38         |
| 815700174                                        | KIT F. BIR12         |
| 815700176                                        | KIT F. BIR34         |
| 815700178                                        | KIT F. BIR100        |
| 815700180                                        | KIT F. BIR114        |
| 815700182                                        | KIT F. BIR112        |
| 815700184                                        | KIT F. BIR200        |
| 815700177                                        | KIT M./F. BIR34      |
| 815700179                                        | KIT M./F. BIR100     |
| 815700181                                        | KIT M./F. BIR114     |
| 815700183                                        | KIT M./F. BIR112     |
| 815700185                                        | KIT M./F. BIR200     |
| <b>M. VEP O-RING KITS REPAIR KIT</b>             |                      |
| 815700735                                        | O-RING KIT M. VEP7   |
| 815700736                                        | O-RING KIT M. VEP 9  |
| 815700737                                        | O-RING KIT M. VEP 13 |
| 815700738                                        | O-RING KIT M. VEP 15 |
| 815700739                                        | O-RING KIT M. VEP 17 |
| 815700740                                        | O-RING KIT M. VEP 21 |
| 815700741                                        | O-RING KIT M. VEP 30 |
| 815700728                                        | O-RING KIT M. VEP 45 |

| ORDER CODE                                            | DESCRIPTION        |
|-------------------------------------------------------|--------------------|
| <b>A PREMIER SERIES REPAIR KIT</b>                    |                    |
| 815700097                                             | KIT M. A9          |
| 815700099                                             | KIT M. A13         |
| 815700101                                             | KIT M. A15         |
| 815700103                                             | KIT M. A17         |
| 815700105                                             | KIT M. A21         |
| 815700107                                             | KIT M. A30         |
| <b>FIRG SERIES REPAIR KIT</b>                         |                    |
| 815700001                                             | KIT M. FIRG 14     |
| 815700003                                             | KIT M. FIRG 38/12  |
| 815700005                                             | KIT M. FIRG 12A/34 |
| 815700007                                             | KIT M. FIRG 34B    |
| 815700009                                             | KIT M. FIRG 100    |
| 815700011                                             | KIT M. FIRG 114    |
| 815700013                                             | KIT M. FIRG 112    |
| 815700015                                             | KIT M. FIRG 200    |
| <b>IRB SERIES KITS REPAIR KIT - ISO B INTERCHANGE</b> |                    |
| 815700202                                             | KIT F. IRB18       |
| 815700204                                             | KIT F. IRB14       |
| 815700206                                             | KIT F. IRB38       |
| 815700208                                             | KIT F. IRB12       |
| 815700210                                             | KIT F. IRB34       |
| 815700212                                             | KIT F. IRB100      |
| 815700211                                             | KIT M./F. IRB34    |
| 815700213                                             | KIT M./F. IRB100   |



O-RING REPAIR KIT



FEMALE/MALE POPPET KIT

# Interchange Guide

THE FOLLOWING INTERCHANGE GUIDE IS OF THE MOST POPULAR INTERCHANGES STUCCHI USA INC. OFFERS.  
PLEASE CONTACT A CUSTOMER SERVICE REPRESENTATIVE FOR ITEMS NOT LISTED IN THE GUIDE.

| ORDER CODE | STUCCHI                                          | AEROQUIP        | FASTER         | HANSEN  | PARKER     | PERFECTING | SAFEWAY  | SNAP-TITE | TOMCO      |
|------------|--------------------------------------------------|-----------------|----------------|---------|------------|------------|----------|-----------|------------|
| PAGE 59    | ISO 7241-A<br>INTERCHANGEABLE<br>FEMALE / SOCKET |                 |                |         |            |            |          |           |            |
| 800501000  | F. BIR 14 NPT                                    | 5601-4-4S       | ANV-14-NPT-F   | 2-I-16  | 6601-4-4   | 2KF2       | S565-2   | 61C-4-4   | CA5602-16  |
| 800501002  | F. BIR 38 NPT                                    | 5601-6-6S       | ANV-38-NPT-F   | 3-I-21  | 6601-6-6   | 3KF3       | S565-3   | 61C-6-6   | CA5603-21  |
| 800501004  | F. BIR 12 NPT                                    | 5601-8-10S      | NV-12-NPT-F    | 4-I-26  | 6601-8-10  | 4KF4       | S565-4   | 61C-8-8   | CA5604-26  |
| 800501006  | F. BIR 34 NPT                                    | 5601-12-12S     | ANV-34-NPT-F   | 6-I-31  | 6601-12-12 | 6KF6       | S565-6   | 61C-12-12 | CA5606-31  |
| 800501008  | F. BIR 100 NPT                                   | 5601-16-16S     | ANV-1-NPT-F    | 8-I-36  | 6601-16-16 | 8KF8       | S565-8   | 61C-16-16 | CA5608-36  |
| PAGE 59    | MALE / NIPPLE                                    |                 |                |         |            |            |          |           |            |
| 800501001  | M. BIR 14 NPT                                    | 5602-4-4S       | ANV-14-NPT-M   | 2-A-16  | 6602-4-4   | K2F2       | S561-2   | 61N-4-4   | PA5602-16  |
| 800501003  | M. BIR 38 NPT                                    | 5602-6-6S       | ANV-38-NPT-M   | 3-A-21  | 6602-6-6   | K3F3       | S561-3   | 61N-6-6   | PA5603-21  |
| 800501005  | M. BIR 12 NPT                                    | 5602-8-10S      | NV-12-NPT-M    | 4-A-26  | 6602-8-10  | K4F4       | S561-4   | 61N-8-8   | PA5604-26  |
| 800501007  | M. BIR 34 NPT                                    | 5602-12-12S     | ANV-34-NPT-M   | 6-A-31  | 6602-12-12 | K6F6       | S561-6   | 61N-12-12 | PA5606-31  |
| 800501009  | M. BIR 100 NPT                                   | 5602-16-16S     | ANV-1-NPT-M    | 8-A-36  | 6602-16-16 | K8F8       | S561-8   | 61N-16-16 | PA5608-36  |
|            | PRODUCT OFFERING<br>INCLUDES: 1 1/4, 1 1/2, 2    |                 |                |         |            |            |          |           |            |
| PAGE 67    | ISO 7241-B<br>INTERCHANGEABLE<br>FEMALE / SOCKET |                 |                |         |            |            |          |           |            |
| 800601000  | F. IRB 18 NPT                                    | FD45-1003-02-02 | HNW-18-NPT-F   | 1-H11   | H1-62      | 1HF1       | S105-1   |           | TH1-11     |
| 800601002  | F. IRB 14 NPT                                    | FD45-1003-04-04 | HNW-14-NPT-F   | 2-H16   | H2-62      | 2HF2       | S105-2   | 72C4-4    | TH2-16     |
| 800601004  | F. IRB 38 NPT                                    | FD45-1003-06-06 | HNW-38-NPT-F   | 3-H21   | H3-62      | 3HF3       | S105-3   | 72C6-6    | TH3-21     |
| 800601006  | F. IRB 12 NPT                                    | FD45-1003-08-10 | HNW-12-PT-F    | 4-HP26  | H4-62      | 4HF4       | S105-4   | 72C8-8    | TH4-26     |
| 800601008  | F. IRB 34 NPT                                    | FD45-1003-12-12 | HNW-34-NPT-F   | 6-HP31  | H6-62      | 6HF6       | S105-6   | 72C12-12  | TH6-31     |
| 800601010  | F. IRB 100 NPT                                   | FD45-1003-16-16 | HNW-1-NPT-F    | 8-HP36  | H8-62      | 8HF8       | S105-8   | 72C16-16  | TH8-36     |
| PAGE 67    | MALE / NIPPLE                                    |                 |                |         |            |            |          |           |            |
| 800601001  | M. IRB 18 NPT                                    | FD45-1002-02-02 | HNW-18-NPT-M   | 1-K11   | H1-63      | H1F1       | S101-1   |           | TK1-11     |
| 800601003  | M. IRB 14 NPT                                    | FD45-1002-04-04 | HNW-14-NPT-M   | 2-K16   | H2-63      | H2F2       | S101-2   | 72N4-4    | TK2-16     |
| 800601005  | M. IRB 38 NPT                                    | FD45-1002-06-06 | HNW-38-NPT-M   | 3-K21   | H3-63      | H3F3       | S101-3   | 72N6-6    | TK3-21     |
| 800601007  | M. IRB 12 NPT                                    | FD45-1002-08-10 | HNW-12-NPT-M   | 4-KP26  | H4-63      | H4F4       | S101-4   | 72N8-8    | TK4-26     |
| 800601009  | M. IRB 34 NPT                                    | FD45-1002-12-12 | HNW-34-NPT-M   | 6-KP31  | H6-63      | H6F6       | S101-6   | 72N12-12  | TK6-31     |
| 800601011  | M. IRB 100 NPT                                   | FD45-1002-16-16 | HNW-1-NPT-M    | 8-KP36  | H8-63      | H8F8       | S101-8   | 72N16-16  | TK8-36     |
| PAGE 68    | FEMALE / SOCKET                                  |                 |                |         |            |            |          |           |            |
| 804601100  | F. IRBX 18 NPT                                   |                 |                |         |            | 1HF1-S     | SS-105-1 |           | TH1-11-303 |
| 804601102  | F. IRBX 14 NPT                                   | FD45-1076-04-04 | HNW-14-NPT-F-2 | ML2-H16 | SSH2-62    | 2HF2-S     | SS-105-2 | S72C4-4   | TH2-16-303 |
| 804601104  | F. IRBX 38 NPT                                   | FD45-1076-06-06 | HNW-38-NPT-F-2 | ML3-H21 | SSH3-62    | 3HF3-S     | SS-105-3 | S72C6-6   | TH3-21-303 |
| 804601106  | F. IRBX 12 NPT                                   | FD45-1076-08-10 | HNW-12-NPT-F-2 | ML4-H26 | SSH4-62    | 4HF4-S     | SS-105-4 | S72C8-8   | TH4-26-303 |
| 804601108  | F. IRBX 34 NPT                                   | FD45-1076-12-12 | HNW-34-NPT-F-2 | ML6-H31 | SSH6-62    | 6HF6-S     | SS-105-6 | S72C12-12 | TH6-31-303 |
| 804601110  | F. IRBX 100 NPT                                  | FD45-1076-16-16 | HNW-1-NPT-F-2  | ML8-H36 | SSH8-62    | 8HF8-S     | SS-105-8 | S72C16-16 | TH8-36-303 |
|            | 316 STAINLESS STEEL                              |                 |                |         |            |            |          |           |            |
| PAGE 68    | MALE / NIPPLE                                    |                 |                |         |            |            |          |           |            |
| 804601101  | M. IRBX 18 NPT                                   |                 |                |         |            | H1F1-S     | SS-101-1 |           | TK1-11-303 |
| 804601103  | M. IRBX 14 NPT                                   | FD45-1004-04-04 | HNW-14-NPT-M-2 | ML2-K16 | SSH2-63    | H2F2-S     | SS-101-2 | S72N4-4   | TK2-16-303 |
| 804601105  | M. IRBX 38 NPT                                   | FD45-1004-06-06 | HNW-38-NPT-M-2 | ML3-K21 | SSH3-63    | H3F3-S     | SS-101-3 | S72N6-6   | TK3-21-303 |
| 804601107  | M. IRBX 12 NPT                                   | FD45-1004-08-10 | HNW-12-NPT-M-2 | ML4-K26 | SSH4-63    | H4F4-S     | SS-101-4 | S72N8-8   | TK4-26-303 |
| 804601109  | M. IRBX 34 NPT                                   | FD45-1004-12-12 | HNW-34-NPT-M-2 | ML6-K31 | SSH6-63    | H6F6-S     | SS-101-6 | S72N12-12 | TK6-31-303 |
| 804601111  | M. IRBX 100 NPT                                  | FD45-1004-16-16 | HNW-1-NPT-M-2  | ML8-K36 | SSH8-63    | H8F8-S     | SS-101-8 | S72N16-16 | TK8-36-303 |
|            | ISO B BRASS                                      |                 |                |         |            |            |          |           |            |
| PAGE 67    | FEMALE / SOCKET                                  |                 |                |         |            |            |          |           |            |
| 804501100  | F. IRBOV 18 NPT                                  |                 |                |         |            | 1HF1-B     | BS-105-1 |           | TH1-11-002 |
| 804501102  | F. IRBOV 14 NPT                                  | FD45-1101-04-04 | HNW-14-NPT-F-5 | B2-H16  | BH2-60     | 2HF2-B     | BS-105-2 | B72C4-4   | TH2-16-002 |
| 804501104  | F. IRBOV 38 NPT                                  | FD45-1101-06-06 | HNW-38-NPT-F-5 | B3-H21  | BH3-60     | 3HF3-B     | BS-105-3 | B72C6-6   | TH3-21-002 |
| 804501106  | F. IRBOV 12 NPT                                  | FD45-1101-08-10 | HNW-12-NPT-F-5 | B4-H26  | BH4-60     | 4HF4-B     | BS-105-4 | B72C8-8   | TH4-26-002 |
| 804501108  | F. IRBOV 34 NPT                                  | FD45-1101-12-12 | HNW-34-NPT-F-5 | B6-H31  | BH6-60     | 6HF6-B     | BS-105-6 | B72C12-12 | TH6-31-002 |
| 804501110  | F. IRBOV 100 NPT                                 | FD45-1101-16-16 | HNW-1-NPT-F-5  | B8-H36  | BH8-60     | 8HF8-B     | BS-105-8 | B72C16-16 | TH8-36-002 |
| PAGE 67    | MALE / NIPPLE                                    |                 |                |         |            |            |          |           |            |
| 804501101  | M. IRBOV 18 NPT                                  |                 |                |         | H1F1-B     |            | BS-101-1 |           | TK1-11-002 |
| 804501103  | M. IRBOV 14 NPT                                  | FD45-1086-04-04 | HNW-14-NPT-M-5 | B2-K16  | BH2-61     | H2F2-B     | BS-101-2 | B72N4-4   | TK2-16-002 |
| 804501105  | M. IRBOV 38 NPT                                  | FD45-1086-06-06 | HNW-38-NPT-M-5 | B3-K21  | BH3-61     | H3F3-B     | BS-101-3 | B72N6-6   | TK3-21-002 |
| 804501107  | M. IRBOV 12 NPT                                  | FD45-1086-08-10 | HNW-12-NPT-M-5 | B4-K26  | BH4-61     | H4F4-B     | BS-101-4 | B72N8-8   | TK4-26-002 |
| 804501109  | M. IRBOV 34 NPT                                  | FD45-1086-12-12 | HNW-34-NPT-M-5 | B6-K31  | BH6-61     | H6F6-B     | BS-101-6 | B72N12-12 | TK6-31-002 |
| 804501111  | M. IRBOV 100 NPT                                 | FD45-1086-16-16 | HNW-1-NPT-M-5  | B8-K36  | BH8-61     | H8F8-B     | BS-101-8 | B72N16-16 | TK8-36-002 |





| ORDER CODE | STUCCHI                                         | AEROQUIP        | FASTER           | HANSEN     | PARKER        | PERFECTING    | SAFEWAY       | SNAP-TITE   | TOMCO  |
|------------|-------------------------------------------------|-----------------|------------------|------------|---------------|---------------|---------------|-------------|--------|
| PAGE 19    | ISO 16028<br>INTERCHANGEABLE<br>FEMALE / SOCKET |                 |                  |            |               |               |               |             |        |
| 800801000  | F. FIRG 14 NPT                                  | FD89-1001-04-04 | 2FFI-14-NPT-F    | 6FFS25     | FEM-251-4FP   | 2HGF2         | FFE495-2      | 74C 4-4F    | EC2-16 |
| 800801004  | F. FIRG 38 NPT                                  | FD49-1001-06-06 | 2FFN-38-NPT-F    | 10FFS37    | FF-371-6FP    | 3HGF3 / 3HTF3 | FFE495-3      | 74C-6-6F    | EC3-21 |
| 800801002  | F. FIRG 12 NPT                                  | FD49-1001-08-06 | 2FFN-38-12-NPT-F | 10FFS50    | FF-371-8FP    | 3HGF4 / 3HTF4 | FFE495-3-8    | 74C-6-8F    | EC3-26 |
| 800801006  | F. FIRG 12A NPT                                 | FD89-1001-08-08 | 2FFI-12-NPT-F    | 12FFS50    | FEM-501-8FP   | 4HGF4 / 4HTF4 | FFE495-4      | 74C 8-8F    | EC4-26 |
| 800801008  | F. FIRG 34 NPT                                  | FD89-1001-12-08 | 2FFI-12-34-NPT-F | 12FFS75    |               | 4HTF6         | FFE495-4-3/4  | 74C 8-12F   | EC4-31 |
| 800801010  | F. FIRG 34B NPT                                 | FD89-1001-12-12 | 2FFI-58-34-NPT-F | 16FFS75    |               | 5HTF6         |               | 74C10-12F   | EC6-31 |
| 800801020  | F. FIRG 34A NPT                                 |                 | 2FFI-34-NPT-F    | 19FFS75    | FEM-751-12FP  | 6HTF6         | FFE-495-6     | 74C12-12F   |        |
| 800801012  | F. FIRG 100 NPT                                 | FD89-1001-16-16 | 2FFI-34-1-NPT-F  | 19FFS100   |               | 6HTF8         | FFE-495-6-1   | 74C12-16F   | EC8-36 |
| 800801014  | F. FIRG 114 NPT                                 | FD89-1001-20-20 |                  | 25FFS125   |               | 8HTF10        | FFE495-8-114  | 74C16-20F   |        |
| 800801016  | F. FIRG 112 NPT                                 | FD89-1001-24-24 | FFI 112 NPT-F    |            |               | 12HGF12       |               |             |        |
| 800801018  | F. FIRG 200 NPT                                 | FD89-1001-32-32 | 2FFI2-NPT-F      |            |               | 16HGF16       |               |             |        |
| PAGE 19    | MALE / NIPPLE                                   |                 |                  |            |               |               |               |             |        |
| 800801001  | M. FIRG 14 NPT                                  | FD89-1002-04-04 | 2FFI-14-NPT-M    | 6FFP25     | FEM-252-4FP   | HG2F2         | FFE491-2      | 74N 4-4F    | EP2-16 |
| 800801005  | M. FIRG 38 NPT                                  | FD49-1002-06-06 | 2FFN-38-NPT-M    | 10FFP37    | FF-372-6FP    | HG3F3 / HT3F3 | FFE491-3      | 74N-6-6F    | EP3-21 |
| 800801003  | M. FIRG 12 NPT                                  | FD49-1002-08-06 | 2FFN-38-12-NPT-M | 10FFP50    | FF-372-8FP    | HG3F4 / HT3F4 | FFE491-3-8    | 74N-6-8F    | EP3-26 |
| 800801007  | M. FIRG 12A NPT                                 | FD89-1002-08-08 | 2FFI-12-NPT-M    | 12FFP50    | FEM-502-8FP   | HG4F4 / HT4F4 | FFE491-4      | 74N 8-8F    | EP4-26 |
| 800801009  | M. FIRG 34 NPT                                  | FD89-1002-12-08 | 2FFI-12-34-NPT-M | 12FFP75    |               | HT4F6         | FFE491-4-3/4  | 74N 8-12F   | EP4-31 |
| 800801011  | M. FIRG 34B NPT                                 | FD89-1002-12-12 | FFI-58-34-NPT-M  | 16FFP75    |               | HG5F6 / HT5F6 |               | 74N10-12F   | EP6-31 |
| 800801021  | M. FIRG 34A NPT                                 |                 | FFI-34-NPT-M     | 19FFP75    | FEM-752-12FP  | HT8F6         | FFE-491-6     | 74N12-12F   |        |
| 800801013  | M. FIRG 100 NPT                                 | FD89-1002-16-16 | FFI-34-1-NPT-M   | 19FFP100   |               | HT8F8         | FFE-491-6-1   | 74N12-16F   | EP8-36 |
| 800801015  | M. FIRG 114 NPT                                 | FD89-1002-20-20 |                  | 25FFP125   |               | HT8F10        | FFE-491-8-114 | 74N16-20F   |        |
| 800801017  | M. FIRG 112 NPT                                 | FD89-1002-24-24 | FFI 112 NPT M    |            |               | HG12F12       |               |             |        |
| 800801019  | M. FIRG 200 NPT                                 | FD89-1002-32-32 | FFI 2 NPT M      |            |               | HG16F16       |               |             |        |
| PAGE 19    | ISO 16028<br>INTERCHANGEABLE<br>FEMALE / SOCKET |                 |                  |            |               |               |               |             |        |
| 800804000  | F. FIRG 14 3/8 SAE                              | FD89-1005-06-04 | 2FFI-14-38-SAE-F |            | FEM-251-6FO   |               | FFE495-2-6    | 74C 4-6EF   |        |
| 800804002  | F. FIRG 38 1/2 SAE                              | FD89-1005-08-06 | 2FFI-38-12-SAE-F |            | FEM-371-8FO   | 3 HTOF4       | FFE495-3-8    | 74C-6-8EF   | EC3-8  |
| 800804004  | F. FIRG 12 5/8 SAE                              | FD89-1005-10-06 |                  |            |               |               |               |             |        |
| 800804006  | F. FIRG 12A 5/8 SAE                             | FD89-1005-10-08 |                  |            |               | 4HTOF5        |               | 74C-8-10EF  |        |
| 800804008  | F. FIRG 34 SAE                                  | FD89-1005-12-08 | 2FFI-12-34-SAE-F | 12FFS106UN | FEM-501-12FO  | 4HTOF6        | FFE495-4-12   | 74C-8-12EF  | EC4-12 |
| 800804010  | F. FIRG 34B SAE                                 | FD89-1005-12-12 | 2FFI-58-34-SAE-F |            | FEM-621-12FO  | 5HTOF6        |               | 74C-10-12EF |        |
| 800804020  | F. FIRG 34A SAE                                 |                 | 2FFI 34-34-SAE-F |            | FEM-751-12FO  | 6HTOF6        |               | 74C12-12EF  |        |
| 800804012  | F. FIRG 100 SAE                                 | FD89-1005-16-16 | 2FFI 34-1-SAE-F  |            |               | 6HTOF8        | FFE-495-6-16  | 74C12-16EF  |        |
| PAGE 19    | MALE / NIPPLE                                   |                 |                  |            |               |               |               |             |        |
| 800804001  | M. FIRG 14 3/8' SAE                             | FD89-1004-06-04 | 2FFI-14-38-SAE-M |            | FEM-252-6FO   |               | FFE491-2-6    | 74N 4-6EF   |        |
| 800804003  | M. FIRG 38 1/2' SAE                             | FD89-1004-08-06 | 2FFI-38-12-SAE-M |            | FEM-372-8FO   | HT3OF4        | FFE491-3-8    | 74N-6-8EF   | EP3-8  |
| 800804005  | M. FIRG 12 5/8' SAE                             | FD89-1004-10-06 |                  |            |               |               |               |             |        |
| 800804007  | M. FIRG 12A 5/8' SAE                            | FD89-1004-10-08 |                  |            |               | HT4OF5        |               | 74N-8-10EF  |        |
| 800804009  | M. FIRG 34 SAE                                  | FD89-1004-12-08 | 2FFI-12-34-SAE-M | 12FFP106UN | FEM-502-12FO  | HT4OF6        | FFE491-4-12   | 74N-8-12EF  | EP4-12 |
| 800804011  | M. FIRG 34B SAE                                 | FD89-1004-12-12 | FFI-58-34-SAE-M  |            | FEM-622-12FO  | HT5OF6        |               | 74N-10-12EF |        |
| 800804021  | M. FIRG 34A SAE                                 |                 | FFI 34-34-SAE-M  |            | FEM-752-12FO  | HT6OF6        |               | 74N12-12EF  |        |
| 800804013  | M. FIRG 100 SAE                                 | FD89-1004-16-16 | FFI 34-1-SAE-M   |            |               | HT6OF8        | FFE-491-6-16  | 74N12-16EF  |        |
| PAGE 9     | ISO 16028<br>INTERCHANGEABLE<br>FEMALE / SOCKET |                 |                  |            |               |               |               |             |        |
| 801301002  | F. A4 1/8 NPT                                   |                 |                  |            |               |               |               |             |        |
| 801301004  | F. A7 1/4 NPT                                   | FD99-1001-04-04 | 2FFI-14-NPT-F    | 6FFS25     | FEM-251-4FP   |               | FFE495-2      | 74C4-4F     | EC2-16 |
| 801301006  | F. A9 3/8 NPT                                   | FD99-1001-06-06 | 2FFN-38-NPT-F    | 10FFS37    | FEM-371-6FP   | 3HTF3         | FFE495-3      | 74C6-6F     | EC3-21 |
| 801301008  | F. A9 1/2 NPT                                   | FD99-1001-08-06 | 2FFN-38-12-NPT-F | 10FFS50    |               | 3HTF4         | FFE495-3-8    | 74C6-8F     | EC3-26 |
| 801301010  | F. A13 1/2 NPT                                  | FD99-1001-08-08 | 2FFI-12-NPT-F    | 12FFS50    | FEM-501-8FP   | 4HTF4         | FFE495-4      | 74C8-8F     | EC4-26 |
| 801301012  | F. A13 3/4 NPT                                  | FD99-1001-12-08 | 2FFI-12-34-NPT-F | 12FFS75    |               | 4HTF6         | FFE495-4-3/4  | 74C8-12F    | EC4-31 |
| 801301014  | F. A15 3/4 NPT                                  | FD99-1001-12-12 | 2FFI-58-34-NPT-F | 16FFS75    |               | 5HTF6         |               | 74C10-12F   | EC6-31 |
| 801301000  | F. A17 1 NPT                                    | FD99-1001-16-16 | 2FF-34-1-NPT-F   | 19FFS100   |               | 6HTF8         | FFE-495-6-1   | 74C12-16F   | EC8-36 |
| 801301030  | F. A17 3/4 NPT                                  |                 | 2FFI-34-NPT-F    | 19FFS75    | FEM-751-12FP  | 6HTF6         | FFE-495-6     | 74C12-12F   |        |
| 801301028  | F. A21 1 NPT                                    |                 | 2FFI-1-NPT-F     |            | FEM-1001-16FP | 8HTF8         | FFE-495-8     | 74C16-16F   |        |
| 801301016  | F. A21 114 NPT                                  |                 |                  | 25FFS125   |               | 8HTF10        | FFE-495-8-114 |             |        |
| 801301018  | F. A30 112 NPT                                  |                 |                  |            |               | 12HTF10       |               |             |        |

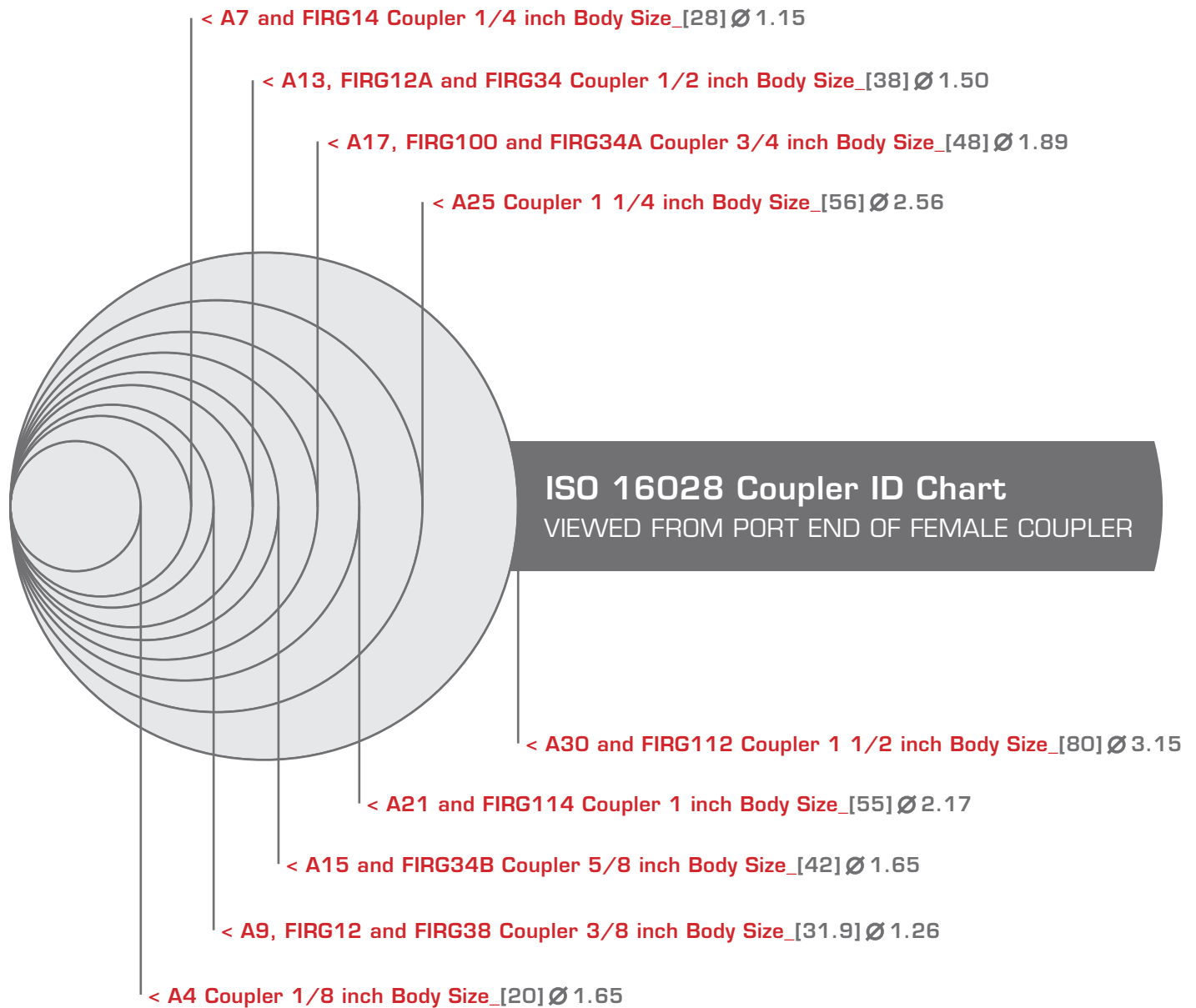
# Interchange Guide

| ORDER CODE | STUCCHI                                         | AEROQUIP        | FASTER           | HANSEN     | PARKER        | PERFECTING    | SAFEWAY       | SNAP-TITE   | TOMCO  |
|------------|-------------------------------------------------|-----------------|------------------|------------|---------------|---------------|---------------|-------------|--------|
| PAGE 9     | MALE / NIPPLE                                   |                 |                  |            |               |               |               |             |        |
| 801301003  | M. A4 1/8 NPT                                   |                 |                  |            |               |               |               |             |        |
| 800801001  | M. FIRG 14 NPT                                  | FD99-1002-04-04 | 2FFI-14-NPT-M    | 6FFP25     | FEM-252-4FP   |               | FFE491-2      | 74N4-4F     |        |
| 801301005  | M. A9 3/8 NPT                                   | FD99-1002-06-06 | FFN-38-NPT-MU    | 10FFP37    | FEM-372-6FP   | HT3F3         | FFE491-3      | 74N6-6F     | EP3-21 |
| 801301007  | M. A9 1/2 NPT                                   | FD99-1002-08-06 | FFN-38-12-NPT-MU | 10FFP50    |               | HT3F4         | FFE491-3-8    | 74N6-8F     |        |
| 801301009  | M. A13 1/2 NPT                                  | FD99-1002-08-08 | FFI-12-NPT-M     | 12FFP50    | FEM-502-8FP   | HT4F4         | FFE491-4      | 74N8-8F     | EP4-26 |
| 801301011  | M. A13 3/4 NPT                                  | FD99-1002-12-08 | FFI-12-34-NPT-M  | 12FFP75    |               | HT4F6         | FFE491-4-3/4  | 74N8-12F    | EP4-31 |
| 801301013  | M. A15 3/4 NPT                                  | FD99-1002-12-12 | FFI-58-34-NPT-M  | 16FFP75    |               | HG5F6 / HT5F6 |               | 74N10-12F   | EP6-31 |
| 801301001  | M. A17 1 NPT                                    | FD99-1002-16-16 | FF-34-1-NPT-M    | 19FFP100   |               | HT6F8         | FFE-491-6-1   | 74N12-16F   | EP8-36 |
| 801301031  | M. A17 3/4 NPT                                  |                 | FFI-34-NPT-M     | 19FFP75    | FEM-752-12FP  | HT6F6         | FFE-491-6     | 74N12-12F   |        |
| 801301029  | M. A21 1 NPT                                    |                 | FFI-1-NPT-M      |            | FEM-1002-16FP | HT8F8         | FFE-491-8     | 74N16-16F   |        |
| 801301015  | M. A21 114 NPT                                  |                 |                  | 25FFP125   |               | HT8F10        | FFE-491-8-114 |             |        |
| 801301017  | M. A30 112 NPT                                  |                 |                  |            |               | HT12F12       |               |             |        |
| PAGE 10    | ISO 16028<br>INTERCHANGEABLE<br>FEMALE / SOCKET |                 |                  |            |               |               |               |             |        |
| 801304002  | F. A4 3/16 SAE                                  |                 |                  |            |               |               |               |             |        |
| 801304004  | F. A7 3/8 SAE                                   | FD99-1005-06-04 | 2FFI-14-38-SAE-F |            | FEM-251-6FO   |               | FFE495-2-6    |             |        |
| 801304006  | F. A9 3/8 SAE                                   |                 | 2FFN-38-38-SAE-F |            |               | 3HTOF3        |               | 74C 6-6EF   |        |
| 801304008  | F. A9 1/2 SAE                                   | FD99-1005-08-06 | 2FFN-38-12-SAE-F |            | FEM-371-8FO   | 3HTOF4        | FFE495-3-8    | 74C 6-8EF   | EC3-8  |
| 801304030  | F. A9 5/8 SAE                                   | FD99-1005-10-06 |                  |            |               |               |               |             |        |
| 803304004  | F. A13 1/2 SAE                                  |                 | 2FFI-12-12-SAE-F |            |               | 4HTOF4        |               |             |        |
| 801304024  | F. A13 5/8 SAE                                  | FD99-1005-10-08 | 2FFI-12-58-SAE-F |            | FEM-501-10FO  | 4HTOF5        |               | 74C-8-10EF  |        |
| 801304010  | F. A13 3/4 SAE                                  | FD99-1005-12-08 | 2FFI-12-34-SAE-F | 12FFS106UN | FEM-501-12FO  | 4HTOF6        | FFE495-4-12   | 74C-8-12EF  | EC4-12 |
| 801304012  | F. A15 3/4 SAE                                  | FD99-1005-12-12 | 2FFI-58-34-SAE-F |            | FEM-621-12FO  | 5HTOF6        |               | 74C10-12EF  |        |
| 801304028  | F. A17 3/4 SAE                                  |                 | 2FFI-34-34-SAE-F |            | FEM-721-12FO  | 6HTOF6        |               | 74C12-12EF  |        |
| 801304000  | F. A17 1 SAE                                    | FD99-1005-16-16 | 2FFI-34-1-SAE-F  |            |               | 6HTOF8        | FFE495-6-16   | 74C12-16EF  |        |
| 801304038  | F. A21 1 SAE                                    |                 | 2FFI-1-1-SAE-F   |            | FEM-1001-16FO | 8HTOF8        | FFE-495-8-20  | 74C16-16EF  |        |
| PAGE 10    | MALE / NIPPLE                                   |                 |                  |            |               |               |               |             |        |
| 801304003  | M. A4 3/16 SAE                                  |                 |                  |            |               |               |               |             |        |
| 800804001  | M. FIRG 14 3/8 SAE                              | FD99-1004-06-04 | 2FFI-14-38-SAE-M |            | FEM-252-6FO   |               | FFE491-2-6    | 74N4-6EF    |        |
| 801304005  | M. A9 3/8 SAE                                   |                 | 2FFN-38-38-SAE-M |            |               | HT3OF3        |               | 74N6-6EF    |        |
| 801304007  | M. A9 1/2 SAE                                   | FD99-1004-08-06 | 2FFN-38-12-SAE-M |            | FEM-372-8FO   | HT3OF4        | FFE491-3-8    | 74N6-8-8EF  | EP3-8  |
| 801304031  | M. A9 5/8 SAE                                   | FD99-1004-10-06 |                  |            |               |               |               |             |        |
| 801304035  | M. A13 1/2 SAE                                  |                 | 2FFI-12-12-SAE-M |            |               | HT4OF4        |               | 74N8-8EF    |        |
| 801304025  | M. A13 5/8 SAE                                  | FD99-1004-10-08 | 2FFI-12-58-SAE-M |            | FEM-502-10FO  | HT4OF5        |               | 74N8-10EF   |        |
| 801304009  | M. A13 3/4 SAE                                  | FD99-1004-12-08 | 2FFI-12-34-SAE-M | 12FFP106UN | FEM-502-12FO  | HT4OF6        | FFE491-4-12   | 74N8-12EF   | EP4-12 |
| 801304011  | M. A15 3/4 SAE                                  | FD99-1004-12-12 | FFI-58-34-SAE-M  |            | FEM-622-12FO  | HT5OF6        |               | 74N10-12EF  |        |
| 801304029  | M. A17 3/4 SAE                                  |                 | FFI-34-34-SAE-M  |            | FEM-722-12FO  | HT6OF6        |               | 74C12-12EF  |        |
| 801304000  | M. A17 1 SAE                                    | FD99-1004-16-16 | FFI-34-1-SAE-M   |            |               | HT6OF8        | FFE491-6-16   | 74C12-1EF   |        |
| 801304039  | M. A21 1 SAE                                    |                 | FFI-1-1-SAE-M    |            | FEM-1002-16FO | HT8OF8        | FFE-491-8-20  | 74N16-1EF   |        |
| PAGE 23    | ISO 16028<br>CONNECT UNDER<br>PRESSURE          |                 |                  |            |               |               |               |             |        |
| 805201001  | M. APM 9 3/8 NPT                                |                 | 3FFI-38 NPT M    |            |               |               |               |             |        |
| 805201003  | M. APM 9 1/2 NPT                                |                 | 3FFI-38-12N M    |            |               |               |               |             |        |
| 805201005  | M. APM 13 1/2 NPT                               |                 | 3FFI-12-NPT-M    |            | FEC-502-8FP   |               |               | CP74N8-8F   |        |
| 805201007  | M. APM 13 3/4 NPT                               |                 | 3FFI-12-34-N-M   |            |               |               |               |             |        |
| 805201009  | M. APM 15 3/4 NPT                               |                 | 3FFI-58-34-N-M   |            |               |               |               |             |        |
| 805201011  | M. APM 17 1 NPT                                 |                 | 3FFI-34-1-N-M    |            |               |               |               |             |        |
| 805201017  | M. APM 21 114 NPT                               |                 | 3FFI-1-114-N-M   |            | FEC-1001      |               |               |             |        |
| 805201015  | M. APM 30 112 NPT                               |                 |                  |            |               |               |               |             |        |
| 805204001  | M. APM 9 1/2 SAE                                |                 | 3FFI-38-12-SAE-M |            |               |               |               |             |        |
| 805204003  | M. APM 13 5/8 SAE                               |                 | 3FFI-12-58-SAE-M |            | FEC-502-10FO  |               |               | CP74N8-10EF |        |
| 805204005  | M. APM 13 3/4 SAE                               |                 | 3FFI-12-34-SAE-M |            | FEC-502-12FO  |               |               | CP74N8-12EF |        |
| 805204007  | M. APM 15 3/4 SAE                               |                 | 3FFI-58-34-SAE-M |            | FEC-622-12FO  |               |               |             |        |
| 805204009  | M. APM 17 1 SAE                                 |                 | 3FFI-34-1-S-M    |            | FEC-752       |               |               |             |        |
| 805204017  | M. APM 21 114 SAE                               |                 | 3FFI-1-114-SAE-M |            | FEC-1001      |               |               |             |        |
| 805204015  | M. APM 30 112 SAE                               |                 |                  |            |               |               |               |             |        |

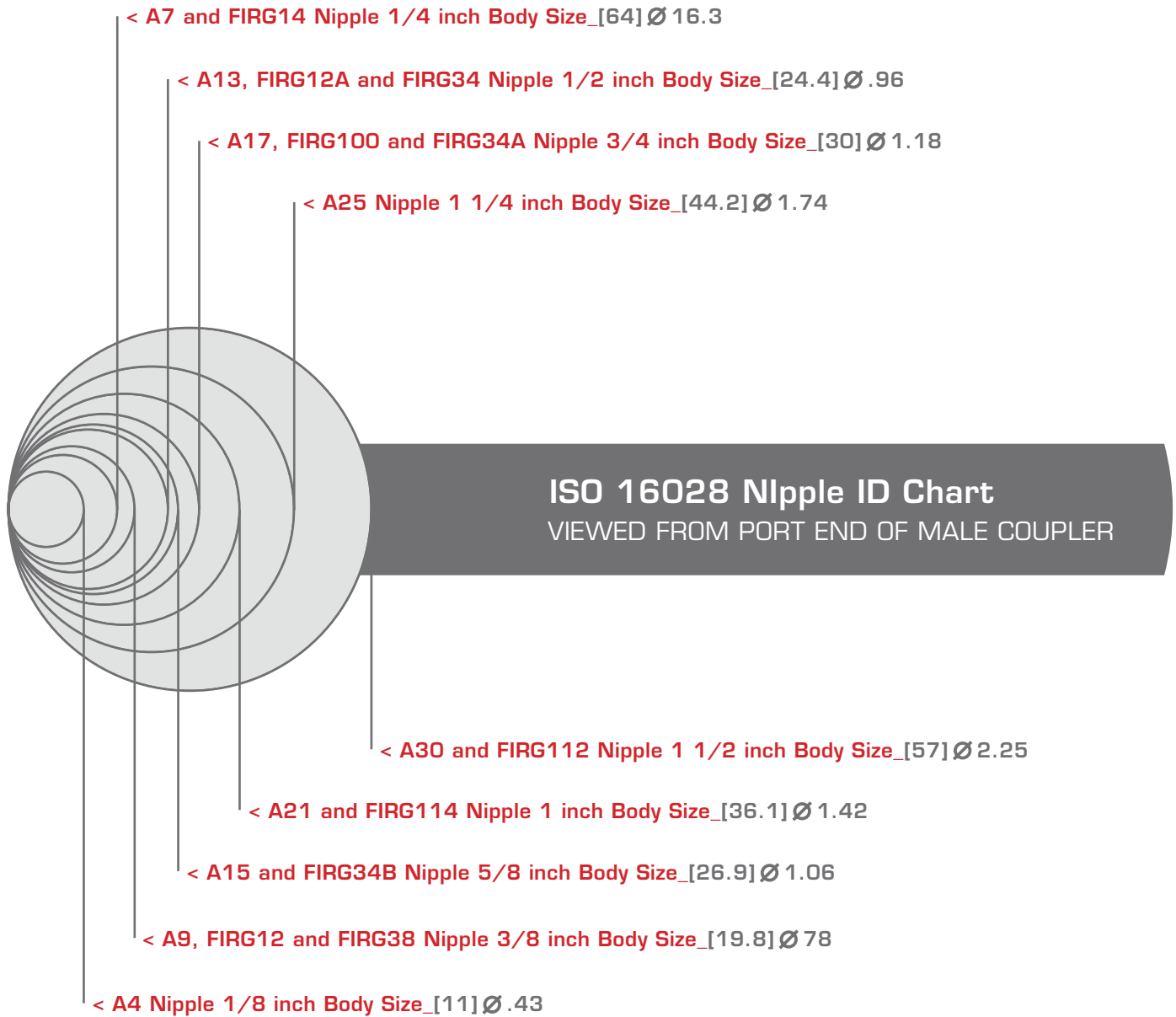


| ORDER CODE | STUCCHI                                              | AEROQUIP        | FASTER            | HANSEN | PARKER  | PERFECTING | SAFEWAY  | SNAP-TITE    | TOMCO  |
|------------|------------------------------------------------------|-----------------|-------------------|--------|---------|------------|----------|--------------|--------|
| PAGE 80    | ENERPAC<br>INTERCHANGE<br>FEMALE / SOCKET            |                 |                   |        |         |            |          |              |        |
| 800201008  | F. IVHP 14 NPT                                       |                 | PVVM 1/14-NPT-F   |        | 3050-2  | 2TM2       | S35-2    |              | JC2-15 |
| 800201004  | F. IVHP 38 NPT                                       |                 | PVVM 1/38-NPT-F   |        | 3050-3  | 3TF3       | S35-3    |              | JC3-20 |
| PAGE 80    | MALE / NIPPLE                                        |                 |                   |        |         |            |          |              |        |
| 800201009  | M. IVHP 14 NPT                                       |                 | PVVM-14-NPT-M     |        | 3010-2  | T2M2       | S31-2    |              | JP2-16 |
| 800201005  | M. IVHP 38 NPT                                       |                 | PVVM-38-NPT-M     |        | 3010-3  | T3F3       | S31-3    |              | JP3-21 |
| PAGE 74    | AG -POPPET<br>INTERCHANGE<br>FEMALE / SOCKET         |                 |                   |        |         |            |          |              |        |
| 800101000  | F. IRV 14 NPT                                        | FD42-1001-04-04 | NV-14-NPT-F       |        | 4050-2P | 2AGF2-PV   | S25A-2P  | 60C4-4F      | C2-16  |
| 800101002  | F. IRV 38 NPT                                        |                 | NV-38-NPT-F       |        | 4050-3P | 3AGF3-PV   | S25-3P   | 60C6-6F      | C3-21  |
| 800501004  | F. BIR 12 NPT                                        | G5601-8-10      | NV-12-NPT-F       |        | 4050-4P | 4AGF4-PV   | S25-4P   |              | C4-26  |
| 800101004  | F. IRV 34 NPT                                        |                 | NV-34-NPT-F*      |        | 4050-5P | 6AGF6-PV   | S25F-6P  |              | C6-31  |
| 800101006  | F. IRV 100 NPT                                       |                 | NV-1-NPT-F        |        | 4050-6P | 8AGF8-PV   | S25-8P   |              | C8-36  |
| PAGE 74    | MALE / NIPPLE                                        |                 |                   |        |         |            |          |              |        |
| 800101001  | M. IRV 14 NPT                                        | FD42-1002-04-04 | NV-14-NPT-M       |        | 4010-2P | AG2F2-PV   | S41-2P   | 60N4-4F      | P2-16  |
| 800101003  | M. IRV 38 NPT                                        |                 | NV-38-NPT-M       |        | 4010-3P | AG3F3-PV   | S41-3P   | 60N6-6F      | P3-21  |
| 800501005  | M. BIR 12 NPT                                        | G5602-8-10      | NV-12-NPT-M       |        | 8010-4P | AG4F4-PV   | S71-4P   |              | P4-26  |
| 800101005  | M. IRV 34 NPT                                        |                 | NV-34-NPT-M*      |        | 4010-5P | AG6F6-PV   | S21F-6P  |              | P6-31  |
| 800101007  | M. IRV 100 NPT                                       |                 | NV-1-NPT-M        |        | 4010-6P | AG8F8-PV   | S21-8P   |              | P8-36  |
|            | * FA VERSION NEEDED<br>TO INTERCHANGE                |                 |                   |        |         |            |          |              |        |
| PAGE 75    | AG -BALL VALVE<br>INTERCHANGEABLE<br>FEMALE / SOCKET |                 |                   |        |         |            |          |              |        |
| 800001000  | F. IR 14 NPT                                         |                 | NS-14-NPT-F       |        | 4050-2  | 2AGF2      | S25A-2   |              |        |
| 800001002  | F. IR 38 NPT                                         |                 | NS-38-NPT-F       |        | 4050-3  | 3AGF3      | S25-3    |              |        |
| 800001004  | F. IR 12 NPT                                         |                 | NS-12-NPT-F       |        | 4050-4  | 4AGF4      | S25-4    |              |        |
| 800001006  | F. IR 34 NPT                                         |                 | NS-34-NPT-F       |        | 4150-5  | 6AGF6      | S25F-6   |              |        |
| 800001008  | F. IR 100 NPT                                        |                 | NS-1-NPT-F        |        |         | 8AGF8      | S25-8    |              |        |
| PAGE 75    | MALE / NIPPLE                                        |                 |                   |        |         |            |          |              |        |
| 800001001  | M. IR 14 NPT                                         |                 | NS-14-NPT-M       |        | 4010-2  | AG2F2      | S41-2    |              |        |
| 800001003  | M. IR 38 NPT                                         |                 | NS-38-NPT-M       |        | 4010-3  | AG3F3      | S41-3    |              |        |
| 800001005  | M. IR 12 NPT                                         |                 | NS-12-NPT-M       |        | 8010-4  | AG4F4      | S71-4    |              |        |
| 800001007  | M. IR 34 NPT                                         |                 | NS-34-NPT-M*      |        | 4110-5  | AG6F6      | S21F-6   |              |        |
| 800001009  | M. IR 100 NPT                                        |                 | NS-1-NPT-M        |        |         | AG8F8      | S21-8    |              |        |
|            | * FA VERSION NEEDED<br>TO INTERCHANGE                |                 |                   |        |         |            |          |              |        |
| PAGE 74    | AG PUSH/PULL<br>INTERCHANGEABLE<br>FEMALE/SOCKET     |                 |                   |        |         |            |          |              |        |
| 800401002  | F. IRS 12 VA NPT                                     |                 |                   |        | 4250-4P |            | S45-4P   |              |        |
| 800301002  | F. IRS 12A NPT                                       |                 |                   |        | 4250-4  |            | S45-4    |              |        |
| 800401004  | F. IRS 12VA PC NPT                                   |                 |                   |        | 8250-4  |            | S75-4    |              |        |
| PAGE 76    | WING STYLE<br>INTERCHANGEABLE<br>FEMALE / SOCKET     |                 |                   |        |         |            |          |              |        |
| 100610012  | F. W6F6-B                                            | 5100-S5-12B     | FB-12/34-NPT-F-5  | 96-S31 | 6125-12 | 6WF6-B     | S515W-6  | B78C-12-12-F | 51W-12 |
| 100610016  | F. 8WF8-B                                            | 5100-S5-16B     | FB-16/1-NPT-F-5   | 96-S36 | 6125-16 | 8WF8-B     | S515W-8  | B78C-16-16-F | 51W-16 |
| 100610020  | F. 10WF10-B                                          | 5100-S5-20B     | FB-20/114-NPT-F-5 | 96-S41 | 6125-20 | 10WF10-B   | S515W-10 | B78C-20-20-F | 51W-20 |
| PAGE 76    | FEMALE / SOCKET                                      |                 |                   |        |         |            |          |              |        |
| 100610112  | M. W6F6-B                                            | 5100-S2-12B     | FB-12/34-NPT-M-5  | 96-P31 | 6105-12 | W6F6-B     | S511W-6  | B78N-12-12-F | 51P-12 |
| 100610116  | M. W8F8-B                                            | 5100-S2-16B     | FB-16/1-NPT-M-5   | 96-P36 | 6105-16 | W8F8-B     | S511W-8  | B78N-16-16-F | 51P-16 |
| 100610120  | M. W10F10-B                                          | 5100-S2-20B     | FB-20/114-NPT-M-5 | 96-P41 | 6105-20 | W10F10-B   | S511W-10 | B78N-20-20-F | 51P-20 |

# Coupler ID Chart



# Nipple ID Chart



## Printed Collateral: Available Brochures

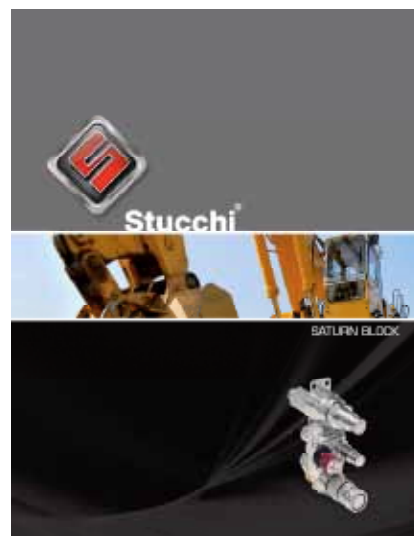


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