

UNITREAD





CERTIFICATE



**Management system as per
EN ISO 9001:2008**

In accordance with TÜV AUSTRIA CERT procedures, it is hereby certified that

United Tyrekrafts Pvt. Ltd.

**Gat No.1087, Near Polybond India Ltd. Sanaswadi, Tal. Shlrur,
Pune - 412 208, India**

applies a management system in line with the above standard for the following scope

Design and Manufacture of Hydraulic Quick Release Coupling

Certificate Registration No. 2X1100112007070

Valid until 2018-02-05
Initial certification 2012-02-06

Certification Body
at TÜV AUSTRIA CERT GMBH

Vienna, 2015-01-13

This certification was conducted in accordance with TÜV AUSTRIA CERT auditing and certification procedures and is subject to regular surveillance audits.
TÜV AUSTRIA CERT GMBH Krugerstraße 16 A-1015 Wien www.tuv.at



ZERTIFIKAT | CERTIFICATE | CERTIFICAT | CERTIFICADO | СЕРТИФИКАТ | 證書 | 인증서 | شهادة

THE JOURNEY

Beginning in late seventies, when **UNITREAD** started it was very much fascinated by pneumatic quick couplings used in various tyre and garage tools. We then decided to give it a try to develop couplings and it was after burning many midnight oils, did we get the hang of the product. Over the 80's we put them in the commercial market. The passion for the product, kept us engaged in experimenting further and slowly but surely we decided to make it a business venture.



And thus, began our journey.....

ENGINEERING & DEVELOPMENT

UNITREAD's team of highly experienced engineers develop products that meet or exceed customer's expectations. We provide solutions to specific applications, innovation and product improvement is a continuous process that surrounds all types of couplings including defense, aerospace, underwater, mobile hydraulics, industrial applications, etc. At every step of this collaborative effort from consultation through design, prototyping and manufacturing our customers become thoroughly aware of our expertise and knowledge necessary to solve their demanding applications.



Today, we have a 3D Design Studio with 3D Printing for rapid prototyping among other facilities.

MANUFACTURING & ASSEMBLY

From ordinary manual lathes for production, we moved to single spindle automats and multi operation lathes over the last few years. Still it posed challenges in consistency and repeatability and by the early nineties, when CNC machines started to arrive on the scene, we took the first initiative to install one such machine and we could thereafter, develop many new varieties.



Today, we have several state of the art equipment spread over a 40,000 sq. ft. Area and with further room to grow.

QUALITY

Quality is an integral part of the **UNITREAD's** DNA to provide the customer end to end solution from concept to final product. Considerable time and effort is put in place to train our team members to be conscious about quality at every stage to reduce wastage, improve efficiency and customer satisfaction.



Today, being an ISO 9001 certified organization and with support of many of the latest electronic measuring instruments, stringent testing and quality standards, **UNITREAD** has become the preferred OEM partner to customers in India and now working closely with many overseas OEMs.

COST EFFECTIVENESS

Continuous Improvement Programmes at every stage from cost effective component design and revisiting manufacturing processes, with emphasis on improved quality and cost control demonstrates our commitment to quality and deliver products at affordable prices to customers to improve ours and our customer's profitability.



CUSTOMER SUPPORT

A dedicated team supported by application engineers are available to our customers, ably supported by stocks and fast logistics to ensure smooth delivery.

UNITED TYREKRAFTS PVT. LTD.

www.unitread.co.in

INDEX

| | | |
|-----------|--|-----------|
| A. | ISO CERTIFICATION | I |
| B. | COMPANY PROFILE | II |
| C. | AGRICULTURAL COUPLINGS | |
| | C.1 ISO 7241 Poppet Type Standard Couplings | 3 |
| | C.2 ISO 7241 Poppet Type Round Socket Couplings | 5 |
| | C.3 ISO 7241 Poppet Type Taper Socket Couplings | 6 |
| | C.3 Connect Under Pressure Adaptors | 7 |
| | C.2 ISO 5675 Ball Type Couplings | 9 |
| | C.3 ISO 5675 Push Pull Couplings | 11 |
| | C.4 ISO 5675 Push Pull Coupling (with Male End) | 13 |
| | C.5 ISO 5765 Push Pull Bulkhead | 15 |
| | C.6 ISO 5675 Breakaway Couplings | 17 |
| | C.7 ISO 5675 Breakaway Couplings (with Male End) | 19 |
| | C.8 ISO 5675 Screw Coupling Ball Type | 21 |
| | C.9 ISO 5675 Trailer Brake Couplings | 23 |
| | C.10 Brake Couplings | 27 |
| D. | INDUSTRIAL/ GENERAL PURPOSE COUPLINGS | |
| | D.1 ISO 7241-A Series Coupling | 30 |
| | D.2 ISO 7241- B Series Coupling | 32 |
| | D.3 DIN Series | 34 |
| | D.4 ISO 16028 Flat Face Coupling | 36 |
| | D.5 ISO 14541 Screw Coupling | 38 |
| | D.6 ISO 14540 Screw Coupling (Ball Type) | 40 |
| | D.7 ISO 14540 Screw Coupling (Poppet Type) | 42 |
| | D.8 Screw Coupling HPSC Series | 44 |
| E. | APPLICATION AREAS | 46 |



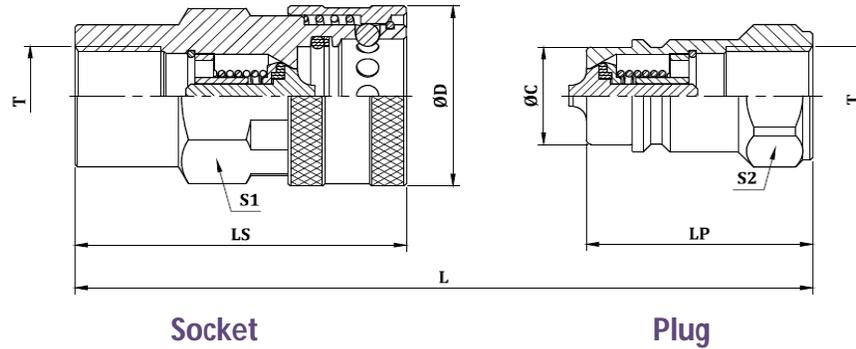
UNITREAD

**AGRI QUICK
COUPLINGS**

We Make The Right Connections

www.unitread.co.in

ISO-7241-A/ISO 5675 POPPET TYPE COUPLING (BSP/ NPT)



BSP Series

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|------|-------------|---------------|-----------------|----------------|------|----|----|-------|-------|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 10 | 3/8" | 3/8" BSP | U00MBAFBB | U00FBAFBB | 38 | 56 | 27 | 22 | 31 | 76.4 | 17.2 | 315 | 1260 |
| 12.5 | 1/2" | 1/2" BSP | U00MCAFBC | U00FCAFBC | 45.9 | 67.2 | 32 | 27 | 38 | 91 | 20.5 | 250 | 1000 |
| 20 | 3/4" | 3/4" BSP | U00MDAFBE | U00FDAFBE | 55 | 82 | 38 | 36 | 48 | 109.4 | 29.1 | 250 | 1000 |

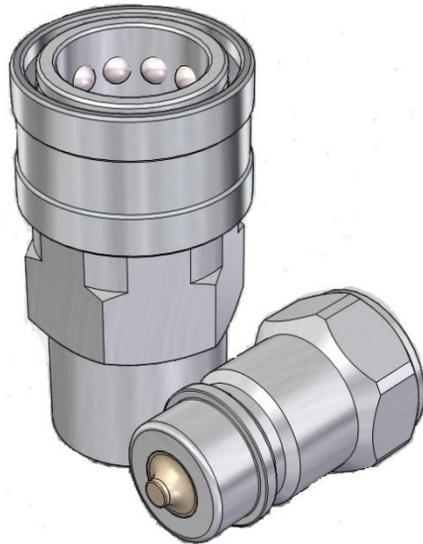
NPT Series

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|------|-------------|---------------|-----------------|----------------|------|----|----|-------|-------|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 10 | 3/8" | 3/8" NPT | U00MBAFNB | U00FBAFNB | 38 | 56 | 27 | 22 | 31 | 76.4 | 17.2 | 315 | 1260 |
| 12.5 | 1/2" | 1/2" NPT | U00MCAFNC | U00FCAFNC | 45.9 | 67.2 | 32 | 27 | 38 | 91 | 20.5 | 250 | 1000 |
| 20 | 3/4" | 3/4" NPT | U00MDAFNE | U00FDAFNE | 55 | 82 | 38 | 36 | 48 | 109.4 | 29.1 | 250 | 1000 |

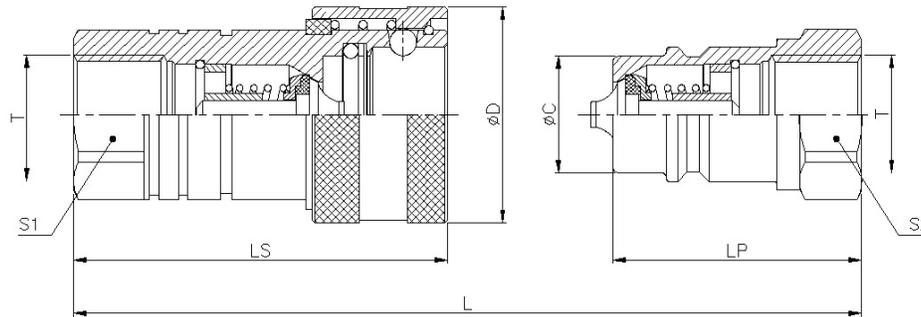
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS:4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-7241-A/ISO 5675 POPPET TYPE COUPLING



Socket

Plug

Round Socket Series

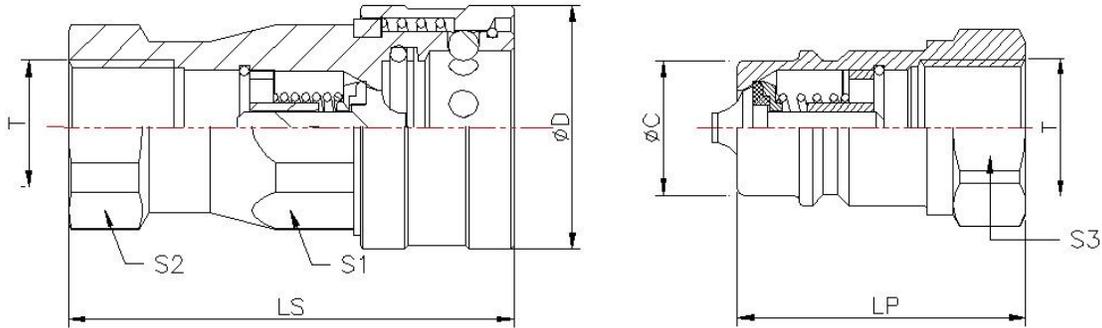
| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|------|-------------|---------------|-----------------|----------------|------|----|----|-------|------|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 12.5 | 1/2" | 1/2" BSP | U00MCAFBC-R | U00FCAFBC-R | 44 | 66 | 27 | 27 | 38 | 88.2 | 20.5 | 250 | 1000 |
| 12.5 | 1/2" | 1/2" NPT | U00MCAFNC-R | U00FCAFNC-R | 45.9 | 67.2 | 27 | 27 | 38 | 91.0 | 20.5 | 250 | 1000 |

NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS:4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation
- 7) Designed to achieve higher flow rates @ lower pressure drops.

ISO-7241-A/ISO 5675 POPPET TYPE COUPLING



Socket

Plug

Taper Socket Series

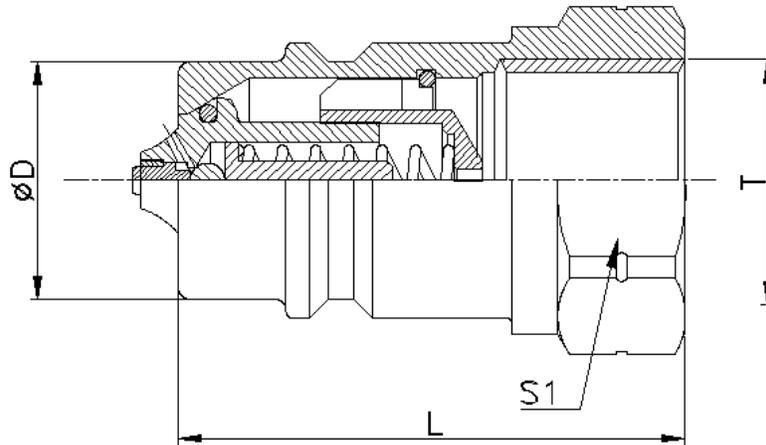
| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|------|-------------|---------------|-----------------|----------------|------|----|----|-------|------|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 12.5 | 1/2" | 1/2" BSP | U00MCAFBC-R | U00FCAFBC-T | 44 | 69.5 | 27 | 27 | 38 | 89.2 | 20.5 | 250 | 1000 |
| 12.5 | 1/2" | 1/2" NPT | U00MCAFNC-R | U00FCAFNC-T | 45.9 | 71 | 27 | 27 | 38 | 94 | 20.5 | 250 | 1000 |

NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS:4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation
- 7) Designed to achieve higher flow rates @ lower pressure drops.

CONNECT UNDER PRESSURE ADAPTORS

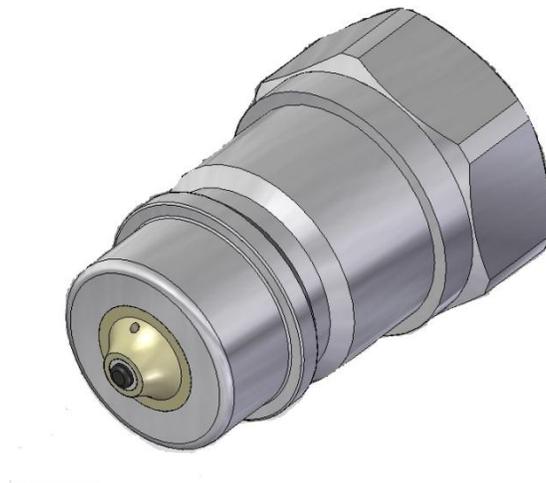


| DN | Size | Thread Type | Part No. | Specifications | | | | |
|------|------|-------------|-------------|----------------|----|-------|------------------|------------------|
| | | | | L | S1 | Dia D | Max Operating Pr | Minimum Burst Pr |
| 10 | 3/8" | 3/8" BSP | U00MBAFBB-P | 35 | 22 | 17.2 | 315 | 1260 |
| 12.5 | 1/2" | 1/2" BSP | U00MCAFBC-P | 44 | 27 | 20.5 | 250 | 1000 |

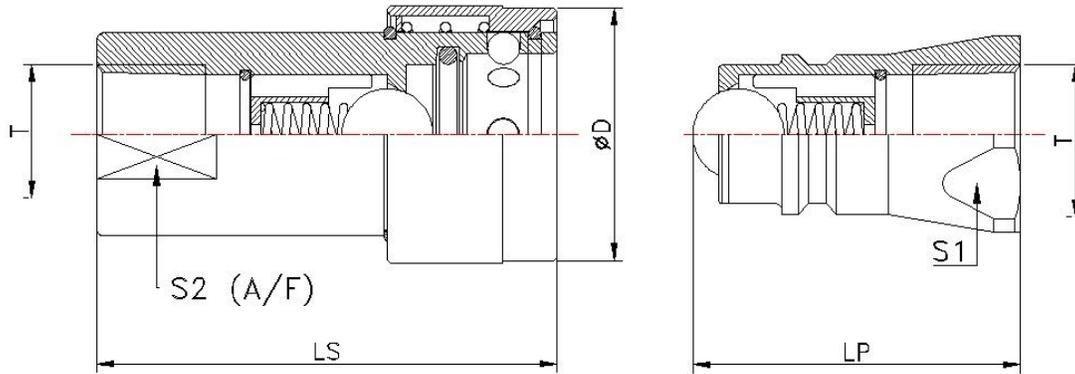
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: As per the Standard Coupling Connection.
- 2) Disconnection System: As per the Standard Coupling Connection.
- 3) Shut-off System: Poppet Valve
- 4) Connection: Under Residual Pressure On Male Part.
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS:4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-5675 BALL TYPE COUPLING



Socket

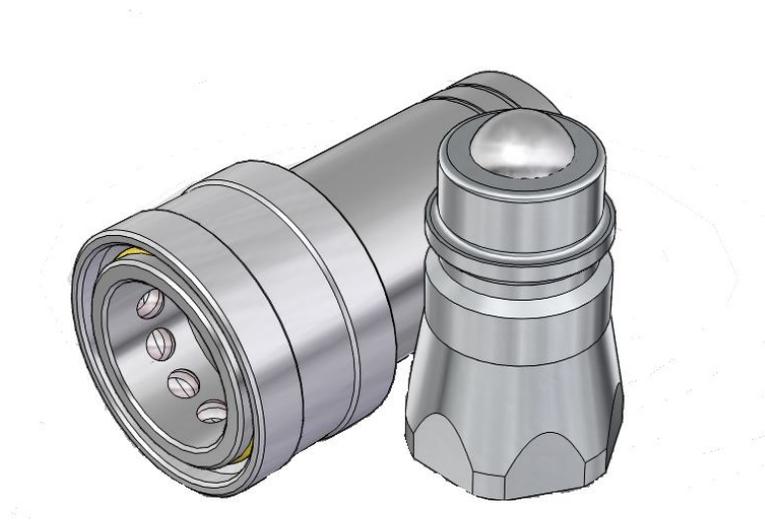
Plug

| DN | Size | Plug Part No. | Socket Part No. | Specifications | | | | |
|----|---------|---------------|-----------------|----------------|----|-------|----|----|
| | | | | LP | LS | Dia D | S1 | S2 |
| 13 | 1/2"NPT | U00MCRFNC | U00FCRFNC | 48.4 | 68 | 38 | 27 | 27 |

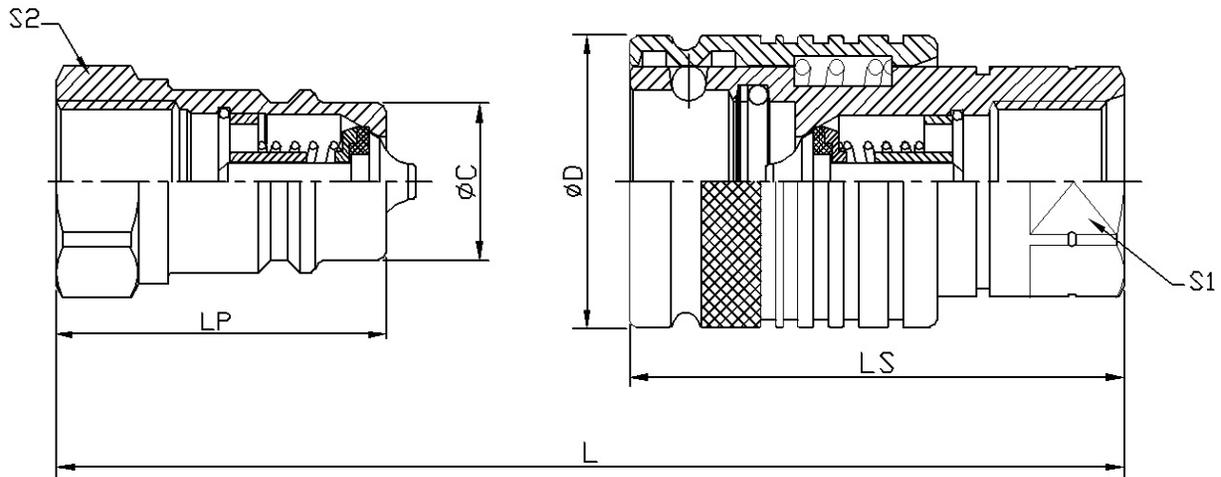
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Ball Valve
- 4) Connectable: Without Pressure
- 5) Materials:
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-5675/7241-A PUSH-PULL COUPLING



Plug

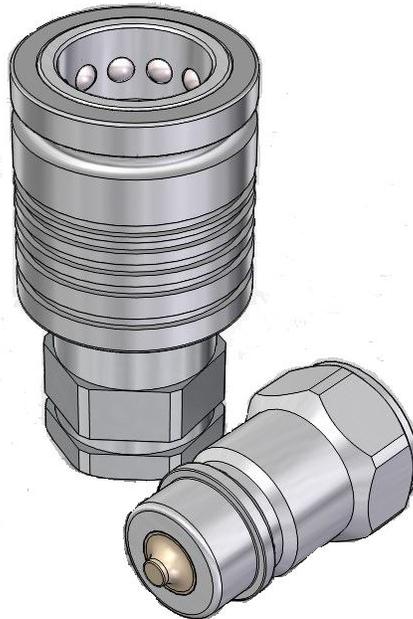
Socket

| DN | Size (inch) | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|----|-------------|-------------|---------------|-----------------|----------------|------|----|------|-------|---|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 10 | 3/8" | 3/8" NPTF | U00MBPFNB | U00FBPFNB | 40.6 | 58.7 | 24 | 20.6 | 33.3 | - | 45.5 | 250 | 1000 |
| 13 | 1/2" | 1/2"NPTF | U00MCPFNC | U00FCPFNC | 49.5 | 68 | 27 | 24 | 38 | - | 45.5 | 250 | 1000 |

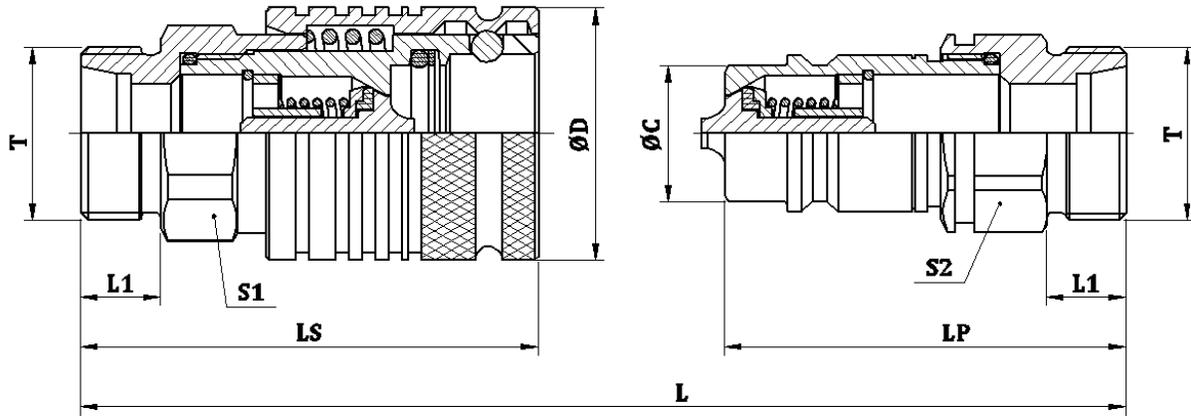
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pushing the male coupling
- 2) Disconnection System: By pulling the male part
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Disconnection: Under Pressure not allowed
- 6) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 7) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 8) Designed to achieve higher flow rates @ lower pressure drops.



ISO-5675 PUSH-PULL COUPLING WITH MALE END CONNECTION



Socket

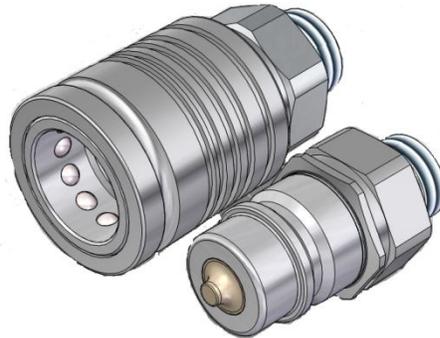
Plug

| DN | Size (inch) | Thread Size | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|-------------|-------------|---------------|-----------------|----------------|------|----|----|-------|----|----|------------------|--------------|
| | | | | | L | LP | LS | L1 | Dia D | S1 | S2 | Max Operating Pr | Min Burst Pr |
| 12.5 | 1/2" | M16x1.5 | U00MCPMMF-S | U00FCPMMF-S | 105.5 | 59.5 | 68 | 11 | 38 | 30 | 27 | 250 | 1000 |
| 12.5 | 1/2" | M18x1.5 | U00MCPMMG-S | U00FCPMMG-S | 105.5 | 59.5 | 68 | 11 | 38 | 30 | 27 | 250 | 1000 |
| 12.5 | 1/2" | M20x1.5 | U00MCPMMH-S | U00FCPMMH-S | 107.5 | 60.5 | 69 | 12 | 38 | 30 | 27 | 250 | 1000 |
| 12.5 | 1/2" | M22x1.5 | U00MCPMMK-S | U00FCPMMK-S | 107.5 | 60.5 | 69 | 12 | 38 | 30 | 27 | 250 | 1000 |
| 12.5 | 1/2" | M24x1.5 | U00MCPMMJ-S | U00FCPMMJ-S | 111.5 | 62.5 | 71 | 14 | 38 | 30 | 27 | 250 | 1000 |
| 12.5 | 1/2" | M26x1.5 | U00MCPMML-S | U00FCPMML-S | 107.5 | 60.5 | 69 | 12 | 38 | 30 | 27 | 250 | 1000 |

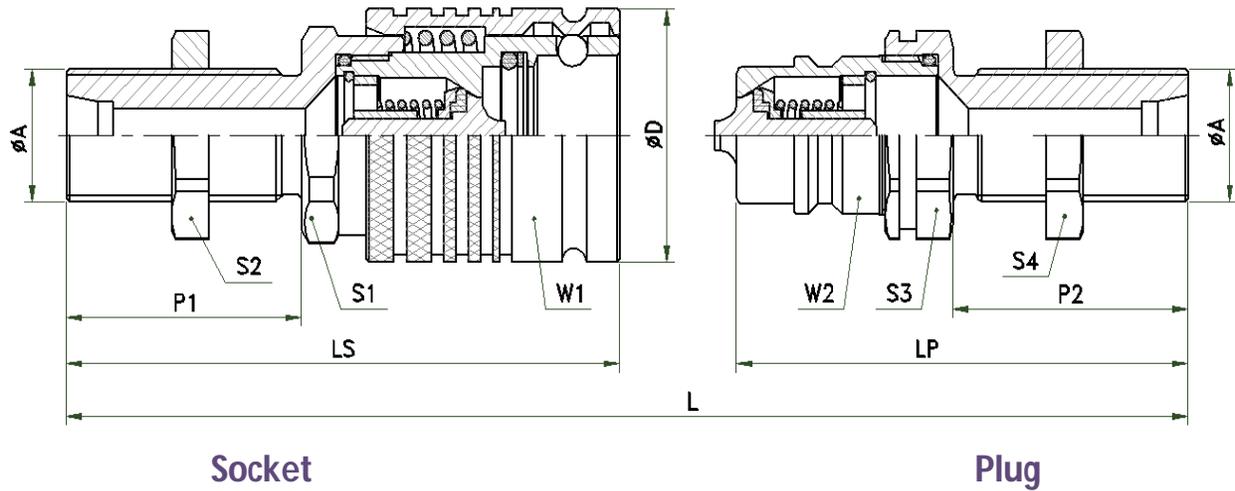
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pushing the male coupling
- 2) Disconnection System: By pulling the male coupling
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-5675 BULK HEAD COUPLING

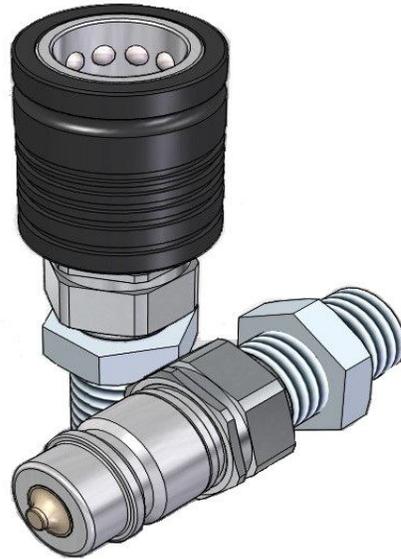


| DN | Size (inch) | Thread Size Dia A | Plug Part No. | Socket Part No. | L | LP | LS | Dia D | S1 | S2 | S3 | S4 |
|----|-------------|-------------------|---------------|-----------------|--------|-------|------|-------|----|------------|----|------------|
| 10 | 3/8" | M12x1.5 (L) | U00MBAMMDBL | U00FBAMMDBL | 141.07 | 71.57 | 87.5 | 17.3 | 22 | 19, 22, 24 | 22 | 19, 22, 24 |
| | | M14x1.5 (L) | U00MBAMMEBL | U00FBAMMEBL | 141.07 | 71.57 | 87.5 | 17.3 | 22 | | 22 | |
| | | M16x1.5 (L) | U00MBAMMFBL | U00FBAMMFBL | 141.07 | 71.57 | 87.5 | 17.3 | 22 | | 22 | |
| | | M18x1.5 (L) | U00MBAMMGBL | U00FBAMMGBL | 141.07 | 71.57 | 87.5 | 17.3 | 22 | | 22 | |
| | | M16x1.5 (S) | U00MBAMMFBS | U00FBAMMFBS | 141.07 | 71.57 | 87.5 | 17.3 | 22 | | 22 | |
| | | M18x1.5 (S) | U00MBAMMGBS | U00FBAMMGBS | 141.07 | 71.57 | 87.5 | 17.3 | 22 | | 22 | |
| | | M20x1.5 (S) | U00MBAMMHBS | U00FBAMMHBS | 141.07 | 71.57 | 87.5 | 17.3 | 22 | | 22 | |
| 13 | 1/2" | M14x1.5 (L) | U00MCAMMEBL | U00FCAMMEBL | 149.8 | 78 | 78 | 20.56 | 27 | 19 | 27 | 19 |
| | | M16x1.5 (L) | U00MCAMMFBL | U00FCAMMFBL | 151.8 | 79 | 79 | 20.56 | 27 | 30 | 27 | 30 |
| | | M18x1.5 (L) | U00MCAMMGBL | U00FCAMMGBL | 129.8 | 68 | 68 | 20.56 | 27 | 24 | 27 | 24 |
| | | M22x1.5 (L) | U00MCAMMKBL | U00FCAMMKBL | 151.8 | 79 | 79 | 20.56 | 27 | 27 | 27 | 27 |
| | | M26x1.5(L) | U00MCAMMLBL | U00FCAMMLBL | 105.8 | 56 | 56 | 20.56 | 27 | 30 | 27 | 30 |
| | | M18x1.5 (S) | U00MCAMMGBS | U00FCAMMGBS | 129.8 | 68 | 68 | 20.56 | 27 | 24 | 27 | 24 |
| | | M20x1.5 (S) | U00MCAMMHBS | U00FCAMMHBS | 151.8 | 79 | 79 | 20.56 | 27 | 27 | 27 | 27 |
| | | M22x1.5 (S) | U00MCAMMKBS | U00FCAMMKBS | 151.8 | 79 | 79 | 20.56 | 27 | 27 | 27 | 27 |
| | | M24x1.5 (S) | U00MCAMMJBS | U00FCAMMJBS | 151.8 | 79 | 79 | 20.56 | 27 | 30 | 27 | 30 |
| | | M30x1.5 (S) | U00CAMMOBS | U00FCAMMOBS | 151.8 | 79 | 79 | 20.56 | 30 | 36 | 30 | 36 |

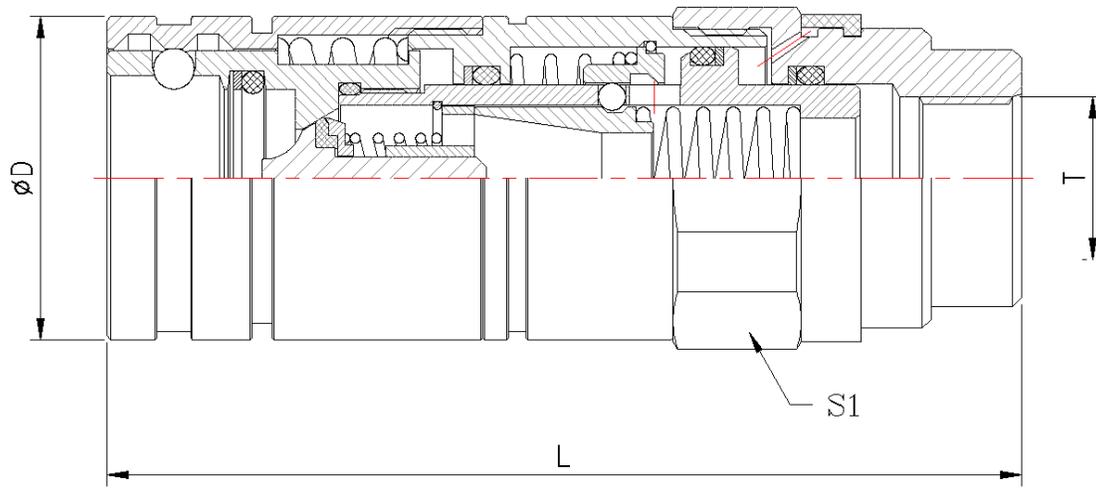
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-5675 BREAK-AWAY COUPLING



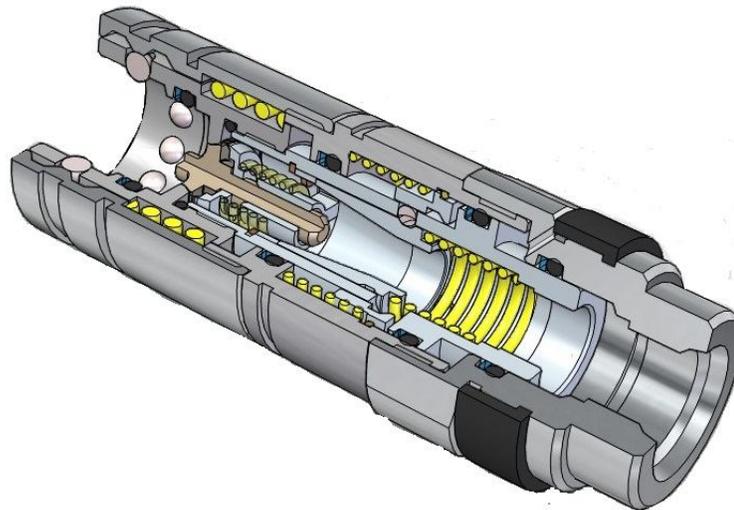
Socket

| DN | Size (inch) | Thread Size Dia T | Socket Part No. | Specifications | | | | |
|------|-------------|-------------------|-----------------|----------------|-------|----|------------------------|--------------------|
| | | | | L | Dia D | S1 | Max Operating Pressure | Min Burst Pressure |
| 12.5 | 1/2" | 3/4"-16UNF-2B | U00FCEFUE | 107.1 | 37.8 | 38 | 250 | 1000 |

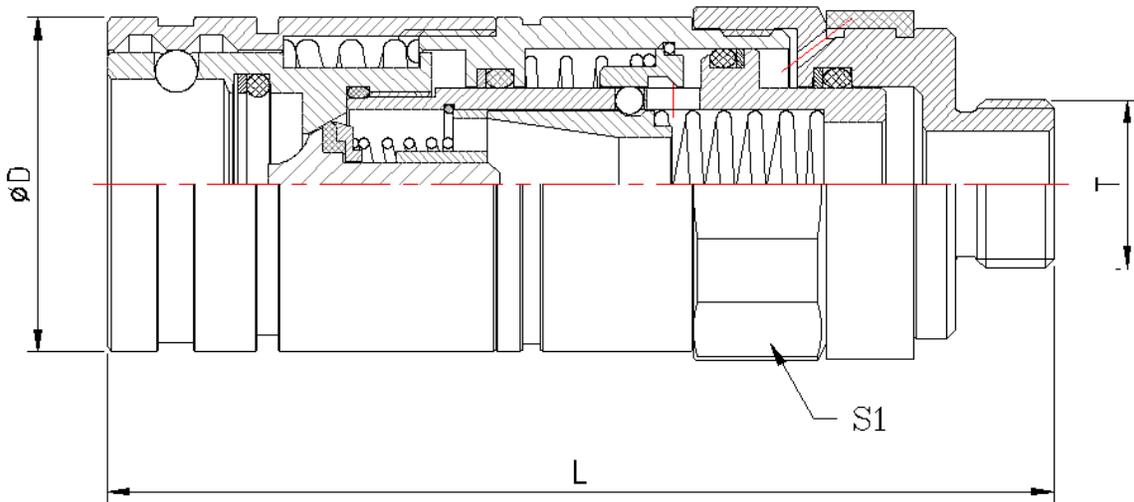
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pushing the male coupling
- 2) Disconnection System: By pulling the male coupling
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Connect under Pressure and rigid mount by ISO 7241-A / ISO 5675 Male Part
- 5) Materials
 - Body: Carbon Steel
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-5675 BREAKAWAY COUPLING



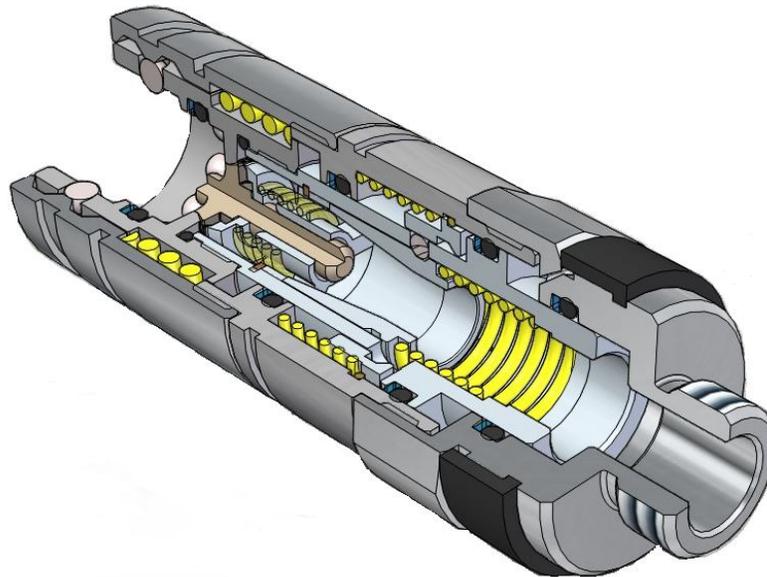
Socket

| DN | Size (inch) | Thread Size Dia T | Socket Part No. | Specifications | | | | |
|------|-------------|-------------------|-----------------|----------------|-------|----|------------------------|--------------------|
| | | | | L | Dia D | S1 | Max Operating Pressure | Min Burst Pressure |
| 12.5 | 1/2" | M22x1.5 | U00FCEMMK | 111.3 | 37.8 | 38 | 250 | 1000 |

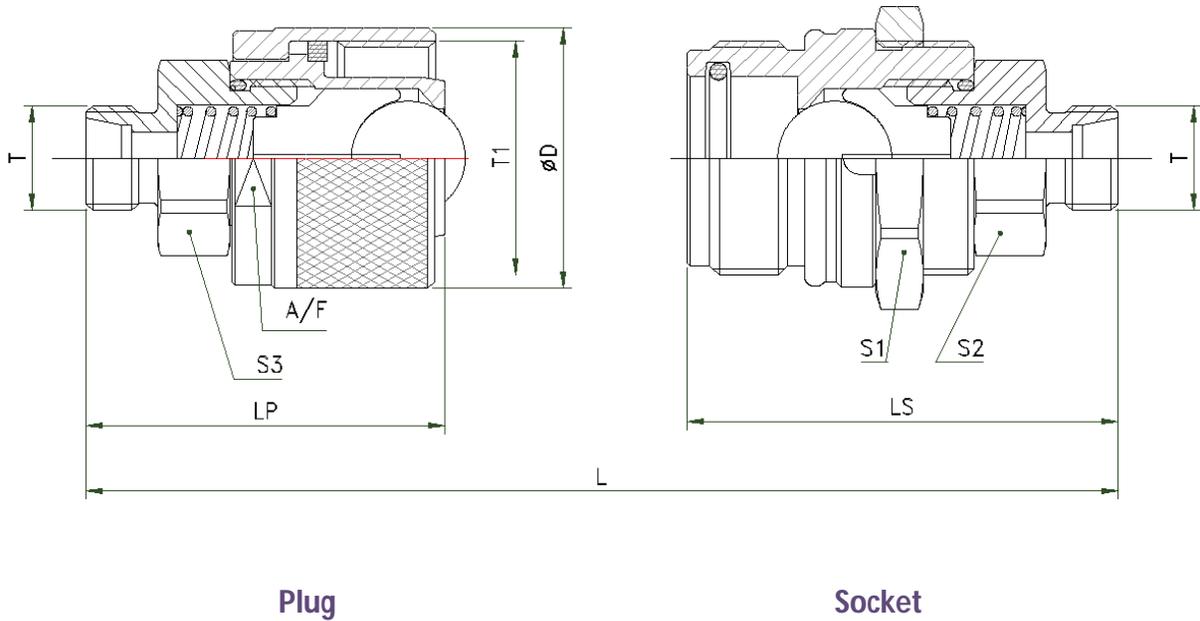
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications

FEATURES

- 1) Connection System: By pushing the male coupling
- 2) Disconnection System: By pulling the male coupling
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Connect under Pressure and rigid mount by ISO 7241-A / ISO 5675 Male Part
- 5) Materials
 - Body: Carbon Steel
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



SCREW COUPLING BALL TYPE SERIES

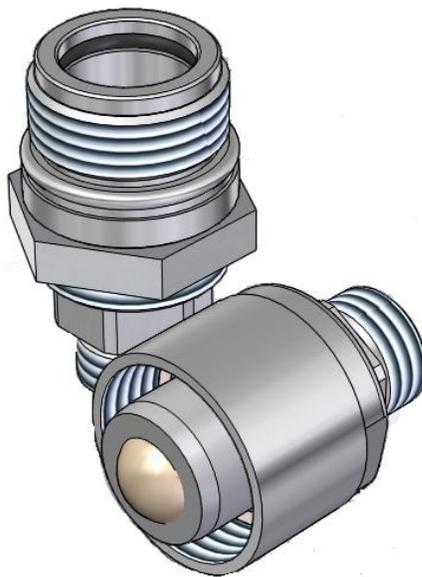


| DN | Size | Thread Size Dia T | Plug Part No. | Socket Part No. | Specifications | | | | | | | | | | |
|------|------|-------------------|---------------|-----------------|----------------|----|----|-------|----|----|----|---------|-----|------------------|--------------|
| | | | | | L | LP | LS | Dia D | S1 | S2 | S3 | T1 | A/F | Max Operating Pr | Min Burst Pr |
| 12.5 | 1/2" | M16x1.5 | U00MCSMMF-B | U00FCSMMF-B | 110 | 58 | 69 | 40 | 41 | 27 | 27 | M36x1.5 | 36 | 300 | 1200 |
| 12.5 | 1/2" | M18x1.5 | U00MCSMMG-B | U00FCSMMG-B | 110 | 58 | 69 | 40 | 41 | 27 | 27 | M36x1.5 | 36 | 300 | 1200 |
| 12.5 | 1/2" | M22x1.5 | U00MCSMMK-B | U00FCSMMK-B | 110 | 58 | 69 | 40 | 41 | 27 | 27 | M36x1.5 | 36 | 300 | 1200 |

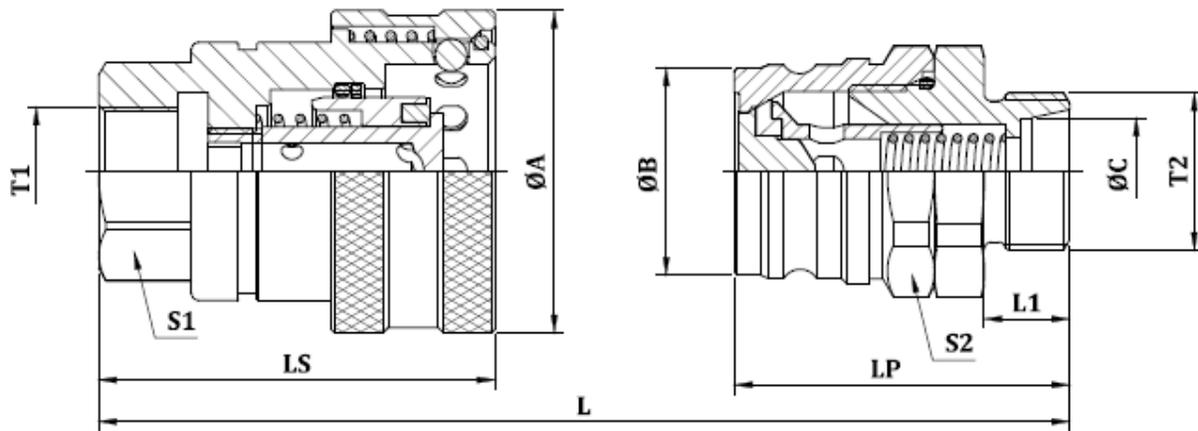
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar. These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By screwing together the two parts.
- 2) Disconnection System: By unscrewing the two parts.
- 3) Shut-off System: Ball Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-5676 TRAILER-BRAKE COUPLING



Socket

Plug

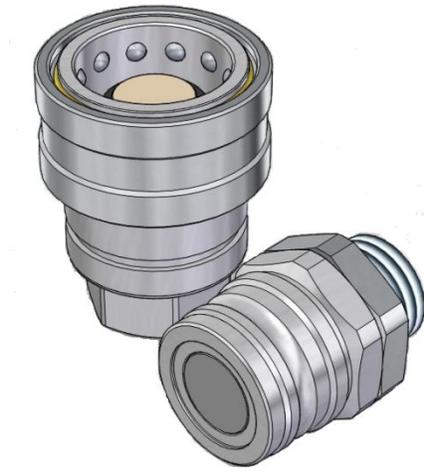
| DN | Size (inch) | Thread Size Dia T1 | Socket Part No. | Specifications | | | | |
|------|-------------|--------------------|-----------------|----------------|-------|----|------------------|--------------|
| | | | | LS | Dia A | S1 | Max Operating Pr | Min Burst Pr |
| 12.5 | 1/2" | M18x1.5 | U00FCGFMG | 55.6 | 45 | 27 | 150 | 930 |
| 12.5 | 1/2" | M22x1.5 | U00FCGFMK | 55.6 | 45 | 27 | 150 | 930 |
| 12.5 | 1/2" | 1/2"BSP | U00FCGFBC | 55.6 | 45 | 27 | 150 | 930 |

| DN | Size (inch) | Thread Size Dia T2 | Plug Part No. | Specifications | | | | | | |
|------|-------------|--------------------|---------------|----------------|-------|----|----|----|------------------|--------------|
| | | | | Dia B | Dia C | LP | L1 | S2 | Max Operating Pr | Min Burst Pr |
| 12.5 | 1/2" | M18x1.5 | U00MCGMMG | 28.9 | 12 | 46 | 11 | 32 | 150 | 930 |
| 12.5 | 1/2" | M20x1.5 | U00MCGMMH | 28.9 | 12 | 47 | 12 | 32 | 150 | 930 |
| 12.5 | 1/2" | M22x1.5 | U00MCGMMK | 28.9 | 12 | 47 | 12 | 32 | 150 | 930 |
| 12.5 | 1/2" | 1/2"BSP | U00MCGMBC | 28.9 | 12 | 47 | 12 | 32 | 150 | 930 |

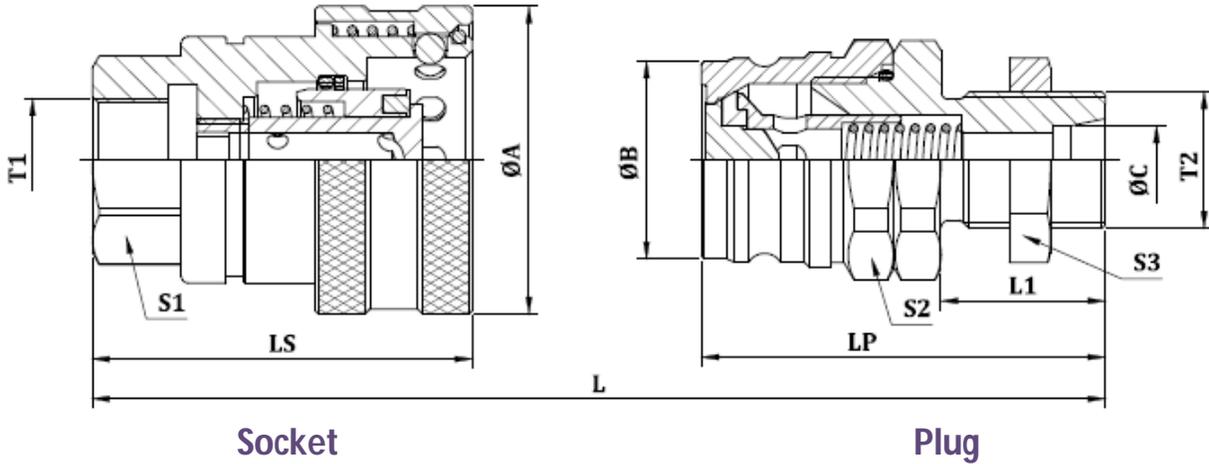
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar. These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pulling back the sleeve
- 2) Disconnection System: By pulling back the sleeve
- 3) Shut-off System: Flat Face Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-5676 TRAILER-BRAKE COUPLING



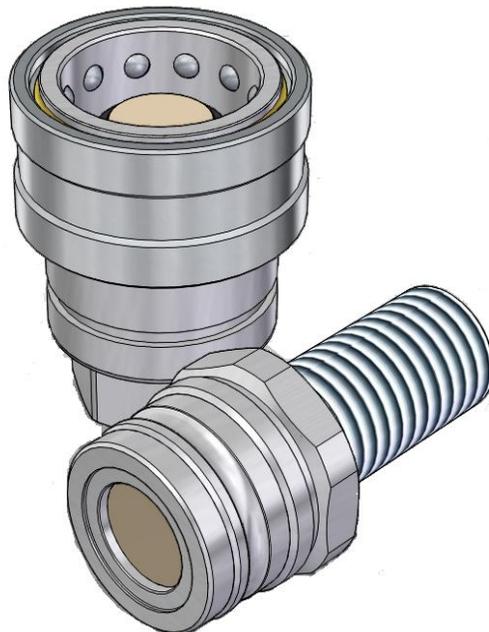
| DN | Size (inch) | Thread Size Dia T1 | Socket Part No. | Specifications | | | | |
|------|-------------|--------------------|-----------------|----------------|-------|----|------------------|--------------|
| | | | | LS | Dia A | S1 | Max Operating Pr | Min Burst Pr |
| 12.5 | 1/2" | M18x1.5 | U00FCGFMG | 55.6 | 45 | 27 | 150 | 930 |
| 12.5 | 1/2" | M22x1.5 | U00FCGFMK | 55.6 | 45 | 27 | 150 | 930 |
| 12.5 | 1/2" | 1/2"BSP | U00FCGFBC | 55.6 | 45 | 27 | 150 | 930 |

| DN | Size (inch) | Thread Size Dia T2 | Plug Part No. | Specifications | | | | | | | |
|------|-------------|--------------------|---------------|----------------|-------|----|----|----|----|------------------|--------------|
| | | | | Dia B | Dia C | LP | L1 | S2 | S3 | Max Operating Pr | Min Burst Pr |
| 12.5 | 1/2" | M18x1.5 | U00MCGMMG-B | 28.9 | 12 | 59 | 23 | 32 | 24 | 150 | 930 |
| 12.5 | 1/2" | M20x1.5 | U00MCGMMH-B | 28.9 | 13.5 | 59 | 23 | 32 | 27 | 150 | 930 |
| 12.5 | 1/2" | M22x1.5 | U00MCGMMK-B | 28.9 | 15 | 59 | 23 | 32 | 27 | 150 | 930 |

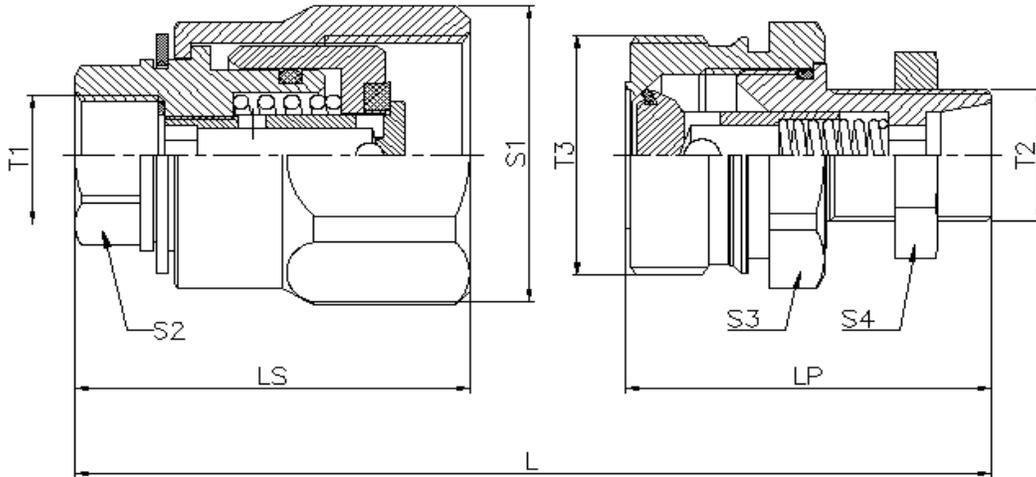
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar. These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By pulling back the sleeve
- 2) Disconnection System: By pulling back the sleeve
- 3) Shut-off System: Flat Face Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



BREAK COUPLING (SCREW TYPE)



Socket

Plug

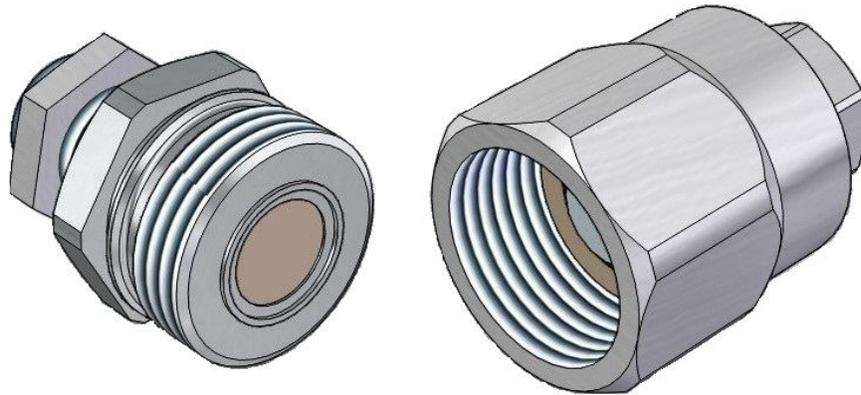
| DN | Size (inch) | Thread Size Dia T1 | Socket Part No. | Specifications | | | | |
|------|-------------|--------------------|-----------------|----------------|----|----|------------------|--------------|
| | | | | LS | S1 | S2 | Max Operating Pr | Min Burst Pr |
| 12.5 | 1/2" | M18x1.5 | U00FCGFMG-H | 54.5 | 41 | 24 | 150 | 930 |

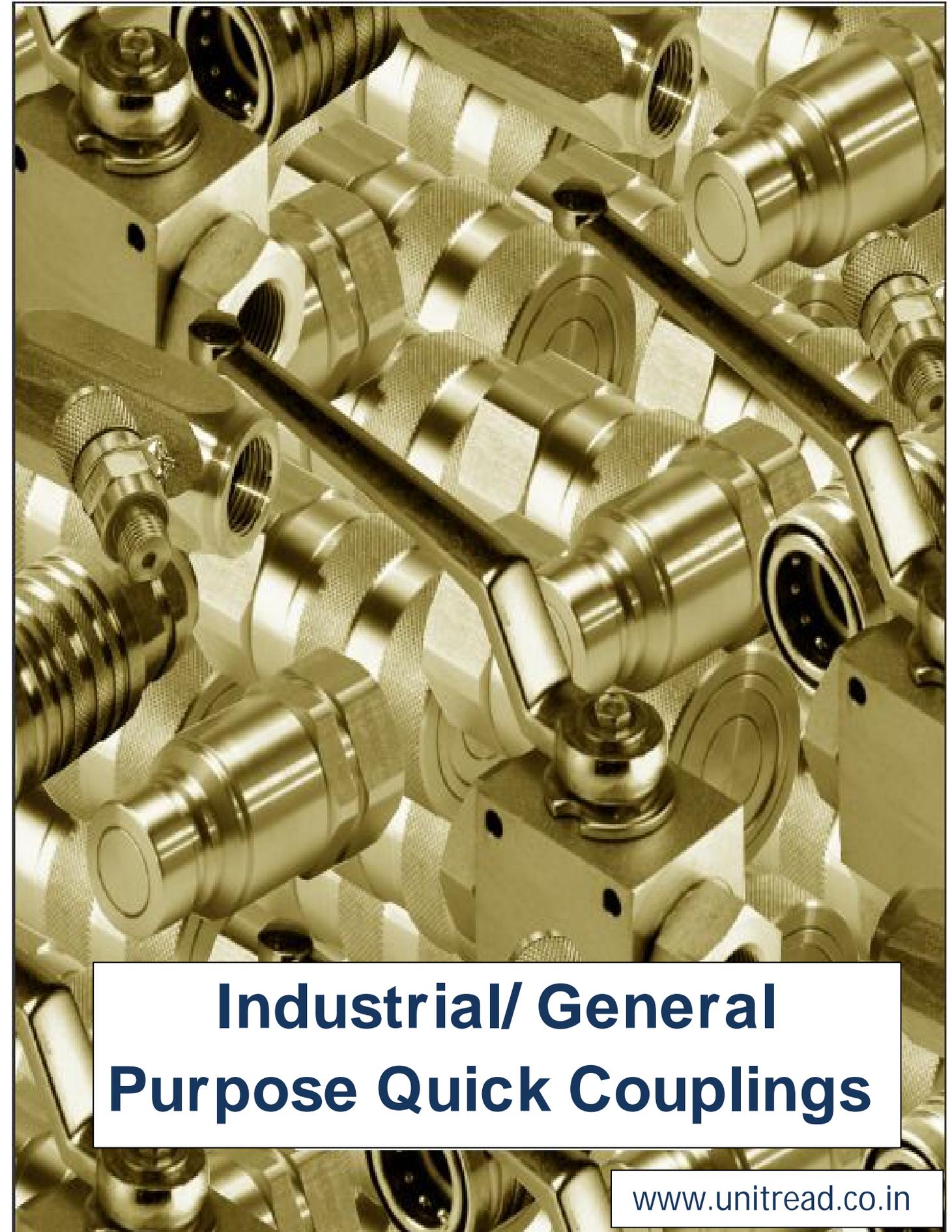
| DN | Size (inch) | Thread Size Dia T2 | Plug Part No. | Specifications | | | | | | |
|------|-------------|--------------------|---------------|----------------|----|------|----|----|------------------|--------------|
| | | | | T3 | LP | LP | S3 | S4 | Max Operating Pr | Min Burst Pr |
| 12.5 | 1/2" | M20x1.5 | U00MCGMMH-BH | M36X2.0P | 59 | 50.5 | 36 | 27 | 150 | 930 |

NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications.

FEATURES

- 1) Connection System: By Screwing the two parts
- 2) Disconnection System: By unscrewing the two parts
- 3) Shut-off System: Flat Face Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.

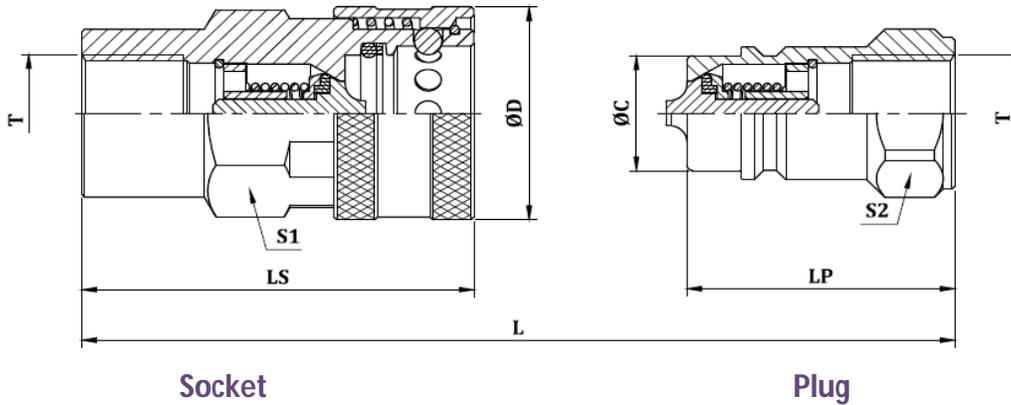




Industrial/ General Purpose Quick Couplings

www.unitread.co.in

ISO-7241-A SERIES (BSP/ NPT)



BSP Series

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|--------|-------------|---------------|-----------------|----------------|-------|-----|-----|-------|-------|-------|------------------|------------------|
| | | | | | LP | LS | S 1 | S 2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" BSP | U00MAAFBA | U00FAAFBA | 32 | 46.5 | 19 | 19 | 26 | 64.8 | 11.8 | 315 | 1260 |
| 10 | 3/8" | 3/8" BSP | U00MBAFBB | U00FBAFBB | 38 | 56 | 27 | 22 | 31 | 76.4 | 17.2 | 315 | 1260 |
| 12.5 | 1/2" | 1/2" BSP | U00MCAFBC | U00FCAFBC | 45.9 | 67.2 | 32 | 27 | 38 | 91 | 20.5 | 250 | 1000 |
| 20 | 3/4" | 3/4" BSP | U00MDAFBE | U00FDAFBE | 55 | 82 | 38 | 36 | 48 | 109.4 | 29.1 | 250 | 1000 |
| 25 | 1" | 1" BSP | U00MEAFBF | U00FEAFBF | 63 | 97 | 46 | 41 | 54 | 126 | 34.3 | 200 | 800 |
| 31.5 | 1 1/4" | 1 1/4" BSP | U00MFAFBG | U00FFAFBG | 74 | 116.2 | 50 | 50 | 69 | 148 | 45 | 200 | 800 |
| 40 | 1 1/2" | 1 1/2" BSP | U00MGAFBH | U00FGAFBH | 84 | 135 | 70 | 60 | 80 | 168.5 | 55 | 160 | 640 |
| 50 | 2" | 2" BSP | U00MHAFBK | U00FHAFBK | 100 | 160.9 | 75 | 75 | 99 | 200.6 | 65 | 100 | 400 |

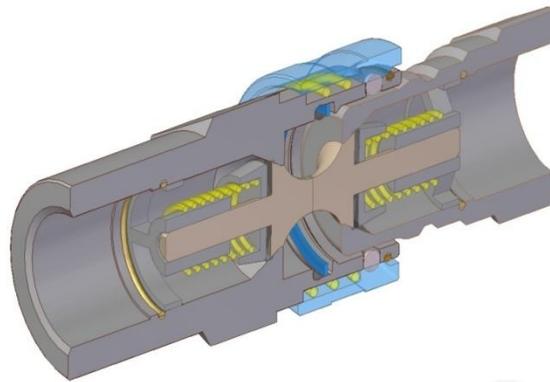
NPT Series

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|--------|-------------|---------------|-----------------|----------------|-------|----|----|-------|-------|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" NPT | U00MAAFNA | U00FAAFNA | 32 | 46.5 | 19 | 19 | 26 | 64.8 | 11.8 | 315 | 1260 |
| 10 | 3/8" | 3/8" NPT | U00MBAFNB | U00FBAFNB | 38 | 56 | 27 | 22 | 31 | 76.4 | 17.2 | 315 | 1260 |
| 12.5 | 1/2" | 1/2" NPT | U00MCAFNC | U00FCAFNC | 45.9 | 67.2 | 32 | 27 | 38 | 91 | 20.5 | 250 | 1000 |
| 20 | 3/4" | 3/4" NPT | U00MDAFNE | U00FDAFNE | 55 | 82 | 38 | 36 | 48 | 109.4 | 29.1 | 250 | 1000 |
| 25 | 1" | 1" NPT | U00MEAFNF | U00FEAFNF | 63 | 97 | 46 | 41 | 54 | 126 | 34.3 | 200 | 800 |
| 31.5 | 1 1/4" | 1 1/4" NPT | U00MFAFNG | U00FFAFNG | 74 | 116.2 | 50 | 50 | 69 | 148 | 45 | 200 | 800 |
| 40 | 1 1/2" | 1 1/2" NPT | U00MGAFNH | U00FGAFNH | 84 | 135 | 70 | 60 | 80 | 168.5 | 55 | 160 | 640 |
| 50 | 2" | 2" NPT | U00MHAFNK | U00FHAFNK | 100 | 160.9 | 75 | 75 | 99 | 200.6 | 65 | 100 | 400 |

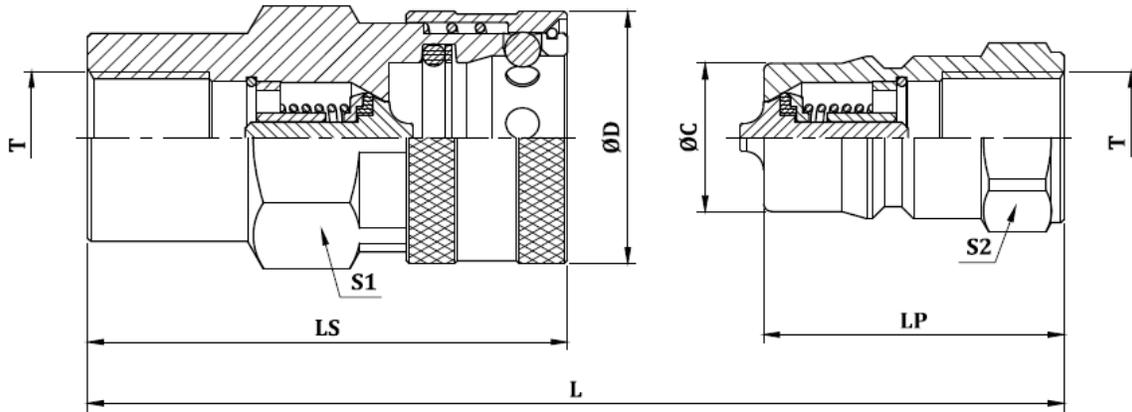
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
These dimensions are for reference only and are subject to change as per design modifications

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS:4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-7241-B SERIES (BSP/NPT)



Socket

Plug

BSP Series

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|-----|------|-------------|---------------|-----------------|----------------|-------|----|----|-------|-------|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" BSP | U00MABFBA | U00FABFBA | 36 | 57.5 | 22 | 19 | 27 | 71.2 | 14.2 | 250 | 1000 |
| 10 | 3/8" | 3/8" BSP | U00MBBFBB | U00FBBFBB | 40 | 65.5 | 27 | 22 | 34 | 80.2 | 19.1 | 250 | 1000 |
| 13 | 1/2" | 1/2" BSP | U00MCBFBC | U00FCBFBC | 47 | 75 | 36 | 27 | 40 | 94.4 | 23.5 | 250 | 1000 |
| 20 | 3/4" | 3/4" BSP | U00MDBFBE | U00FDBFBE | 56.3 | 91.9 | 41 | 36 | 51.7 | 112.8 | 31.4 | 160 | 1000 |
| 25 | 1" | 1" BSP | U00MEBFBF | U00FEBFBF | 64 | 103.9 | 50 | 41 | 60 | 128.2 | 37.8 | 100 | 1000 |

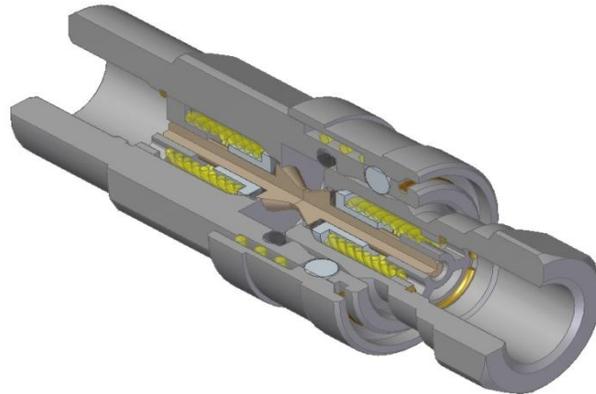
NPT Series

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|-----|------|-------------|---------------|-----------------|----------------|-------|----|----|-------|-------|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" NPT | U00MABFNA | U00FABFNA | 36 | 57.5 | 22 | 19 | 27 | 71.2 | 14.2 | 250 | 1000 |
| 10 | 3/8" | 3/8" NPT | U00MBBFNB | U00FBBFNB | 40 | 65.5 | 27 | 22 | 34 | 80.2 | 19.1 | 250 | 1000 |
| 13 | 1/2" | 1/2" NPT | U00MCBFNC | U00FCBFNC | 47 | 75 | 36 | 27 | 40 | 94.4 | 23.5 | 250 | 1000 |
| 20 | 3/4" | 3/4" NPT | U00MDBFNE | U00FDBFNE | 56.3 | 91.9 | 41 | 36 | 51.7 | 112.8 | 31.4 | 160 | 1000 |
| 25 | 1" | 1" NPT | U00MEBFNF | U00FEBFNF | 64 | 103.9 | 50 | 41 | 60 | 128.2 | 37.8 | 100 | 1000 |

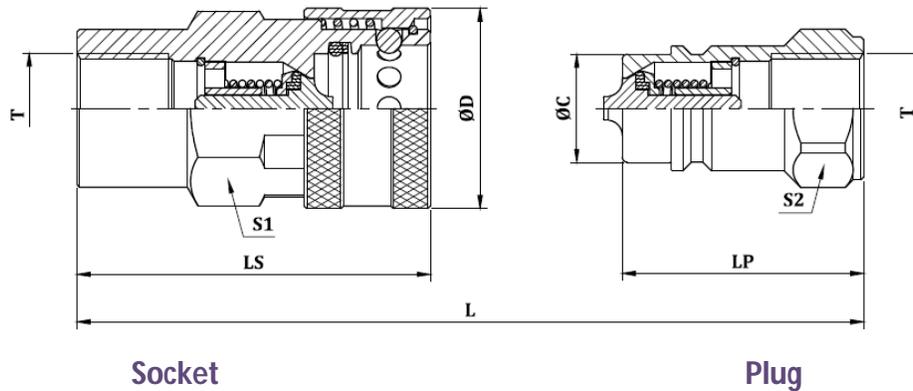
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



DIN SERIES



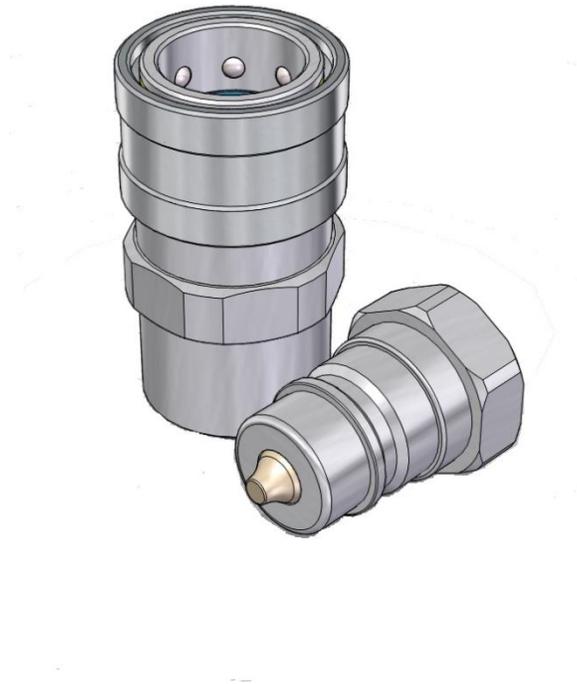
BSP Series

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|------|-------------|---------------|-----------------|----------------|----|----|----|-------|------|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" BSP | U00MADFBA | U00FADFBA | 36 | 53 | 22 | 19 | 27 | 72 | 14.2 | 350 | 1000 |
| 10 | 3/8" | 3/8" BSP | U00MBDFBB | U00FDFB | 40 | 61 | 27 | 24 | 35 | 81 | 18.95 | 300 | 1000 |
| 12.5 | 1/2" | 1/2" BSP | U00MCFBC | U00FCDFBC | 46 | 63 | 30 | 27 | 38 | 87.5 | 20.56 | 300 | 1000 |
| 20 | 3/4" | 3/4" BSP | U00MDDFBE | U00FDDFBE | 56 | 85 | 38 | 36 | 48 | 112 | 27.95 | 250 | 640 |
| 25 | 1" | 1" BSP | U00MEDFBF | U00FEDFBF | 63 | 96 | 46 | 41 | 55 | 126 | 31.3 | 220 | 400 |

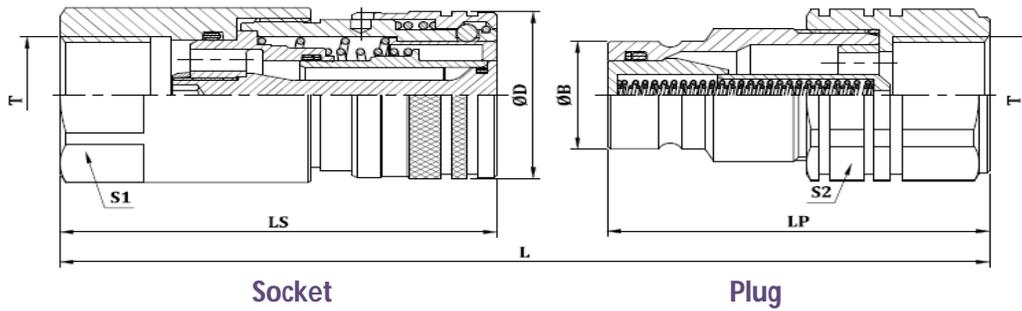
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-16028 FLAT FACE SERIES (BSP/NPT)



BSP Series

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|------|-------------|---------------|-----------------|----------------|-------|----|----|-------|-----|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia B | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" BSP | U00MAFFBA | U00FAFFBA | 52.5 | 59.5 | 22 | 22 | 28.5 | 101 | 16.1 | 315 | 1260 |
| 10 | 3/8" | 3/8" BSP | U00MBFFBB | U00FBFFBB | 60.6 | 73.8 | 30 | 30 | 33 | 119 | 19.7 | 250 | 1000 |
| 10 | 3/8" | 1/2" BSP | U00MBFFBC | U00FBFFBC | 60.6 | 73.8 | 30 | 30 | 33 | 119 | 19.7 | 250 | 1000 |
| 12.5 | 1/2" | 1/2" BSP | U00MCFBFC | U00FCFFBC | 73 | 83.5 | 36 | 36 | 38 | 139 | 24.5 | 250 | 1000 |
| 12.5 | 1/2" | 3/4" BSP | U00MCFBFE | U00FCFFBE | 73 | 83.5 | 36 | 36 | 38 | 139 | 24.5 | 250 | 1000 |
| 20 | 3/4" | 3/4" BSP | U00MDFFBF | U00DFFFBE | 86.2 | 98.5 | 41 | 41 | 48.5 | 162 | 29.9 | 250 | 1000 |
| 20 | 3/4" | 1" BSP | U00MDFFBF | U00DFFFBF | 86.2 | 98.5 | 41 | 41 | 48.5 | 162 | 29.9 | 250 | 1000 |
| 25 | 1" | 1" BSP | U00MEFFBF | U00FEFFBF | 92.2 | 109.5 | 50 | 50 | 55.5 | 179 | 36 | 200 | 800 |

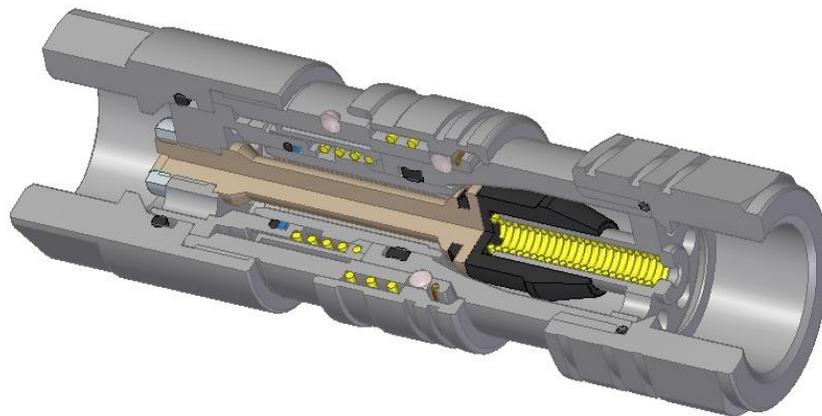
NPT Series

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|------|------|-------------|---------------|-----------------|----------------|-------|----|----|-------|-----|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia B | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" NPT | U00MAFFNA | U00FAFFNA | 52.5 | 59.5 | 22 | 22 | 28.5 | 101 | 16.1 | 315 | 1260 |
| 10 | 3/8" | 3/8" NPT | U00MBFFNB | U00FBFFNB | 60.6 | 73.8 | 30 | 30 | 33 | 119 | 19.7 | 250 | 1000 |
| 10 | 3/8" | 1/2" NPT | U00MBFFNC | U00FBFFNC | 60.6 | 73.8 | 30 | 30 | 33 | 119 | 19.7 | 250 | 1000 |
| 12.5 | 1/2" | 1/2" NPT | U00MCFFNC | U00FCFFNC | 73 | 83.5 | 36 | 36 | 38 | 139 | 24.5 | 250 | 1000 |
| 12.5 | 1/2" | 3/4" NPT | U00MCFFNE | U00FCFFNE | 73 | 83.5 | 36 | 36 | 38 | 139 | 24.5 | 250 | 1000 |
| 20 | 3/4" | 3/4" NPT | U00MDFFNF | U00DFFFNE | 86.2 | 98.5 | 41 | 41 | 48.5 | 162 | 29.9 | 250 | 1000 |
| 20 | 3/4" | 1" NPT | U00MDFFNF | U00DFFFNF | 86.2 | 98.5 | 41 | 41 | 48.5 | 162 | 29.9 | 250 | 1000 |
| 25 | 1" | 1" NPT | U00MEFFNF | U00FEFFNF | 92.2 | 109.5 | 50 | 50 | 55.5 | 179 | 36 | 200 | 800 |

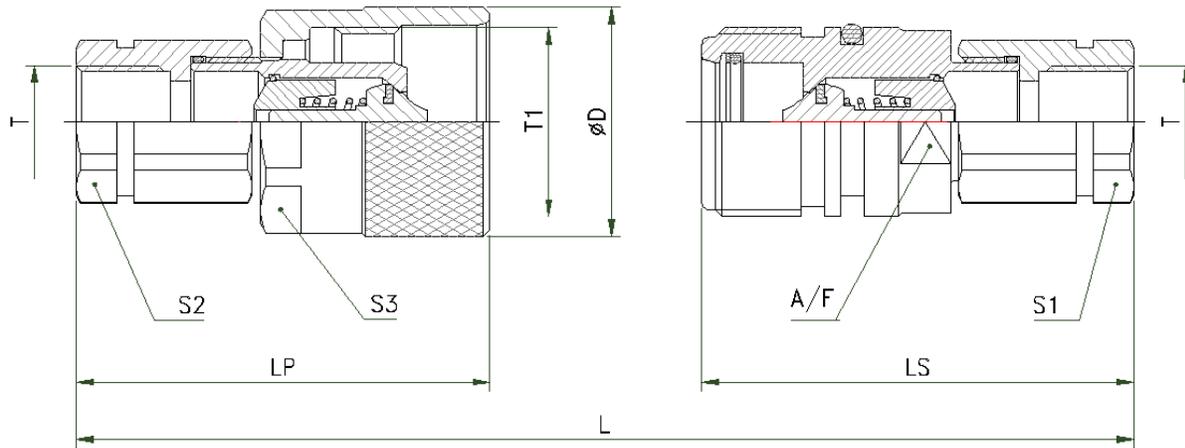
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications

FEATURES

- 1) Connection System: By pushing the Male Coupling.
- 2) Disconnection System: By pulling back the female sleeve.
- 3) Shut-off System: Flat Face Valve
- 4) Connectable: Without Pressure
- 5) No spillage during connection and dis-connection.
- 6) Materials:
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 7) Surface Treatment: Zinc Plating with Cr III based Passivation.
Premium Series: Zinc Nickel Silver Passivation
- 8) Designed to achieve higher flow rates @ lower pressure drops.



ISO-14541 SCREW COUPLING POPPET TYPE



Plug

Socket

| DN | Size | Plug Part No. | Socket Part No. | Specifications | | | | | | | | | |
|------|------|---------------|-----------------|----------------|----|----|----|----|-----|-------|-----|------------------|------------------|
| | | | | LP | LS | S1 | S2 | S3 | A/F | Dia D | L | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | U00MASFBA | U00FASFBA | 59.3 | 60 | 19 | 19 | 30 | 19 | 34 | 94 | 350 | 1400 |
| 10 | 3/8" | U00MBSFBB | U00FBSFBB | 61.2 | 64 | 22 | 22 | 30 | 24 | 34 | 98 | 300 | 1200 |
| 12.5 | 1/2" | U00MCSFBC | U00FCSFBC | 67.5 | 70 | 27 | 27 | 36 | 27 | 41.8 | 109 | 300 | 1200 |
| 20 | 3/4" | U00MDSFBE | U00FDSFBE | 80 | 86 | 36 | 36 | 41 | 36 | 48 | 135 | 250 | 1000 |

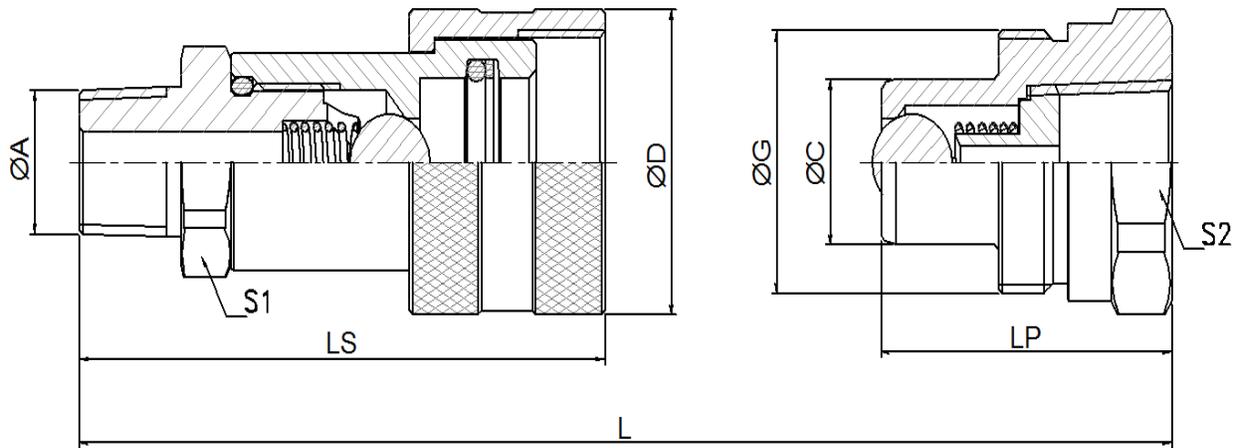
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modifications

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
Premium Series: Zinc Nickel Silver Passivation
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-14540 SCREW COUPLING (BALL TYPE)



Socket

Plug

| DN | Size (inch) | Thread Type Dia A | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|-----|-------------|----------------------|---------------|-----------------|----------------|------|----|----|-------|----|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" NPT | U00MASFNAB | U00FASFNAB | 39 | 60 | 19 | 27 | 30 | 81 | 19 | 720 | 2160 |
| 10 | 3/8" | 3/8"NPT | U00MBSFNBB | U00FBSFNBB | 39 | 73.5 | 24 | 32 | 35 | 87 | 19 | 720 | 2160 |

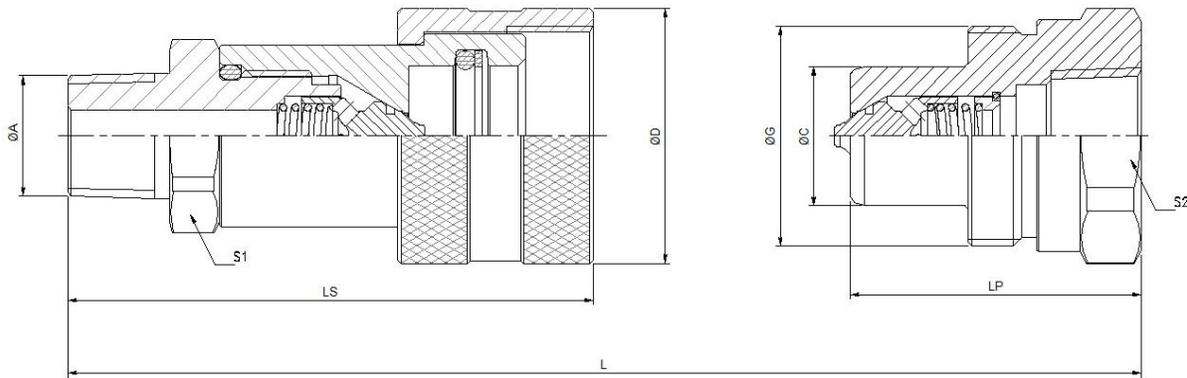
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modification

FEATURES

- 1) Connection System: By screwing together the two parts
- 2) Disconnection System: By unscrewing the two parts
- 3) Shut-off System: Ball Valve
- 4) Connectable: Under Residual Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



ISO-14540 SCREW COUPLING (POPPET TYPE)



Socket

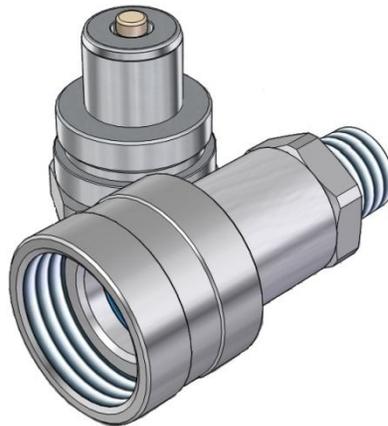
Plug

| DN | Size (inch) | Thread Type Dia A | Plug Part No. | Socket Part No. | Specifications | | | | | | | | |
|-----|-------------|-------------------|---------------|-----------------|----------------|------|----|----|-------|----|-------|------------------|------------------|
| | | | | | LP | LS | S1 | S2 | Dia D | L | Dia C | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" NPT | U00MASFNA | U00FASFNA | 40 | 60 | 19 | 27 | 30 | 81 | 19 | 720 | 2160 |
| 10 | 3/8" | 3/8" NPT | U00MBSFNB | U00FBSFNB | 40 | 73.5 | 24 | 32 | 35 | 87 | 19 | 720 | 2160 |

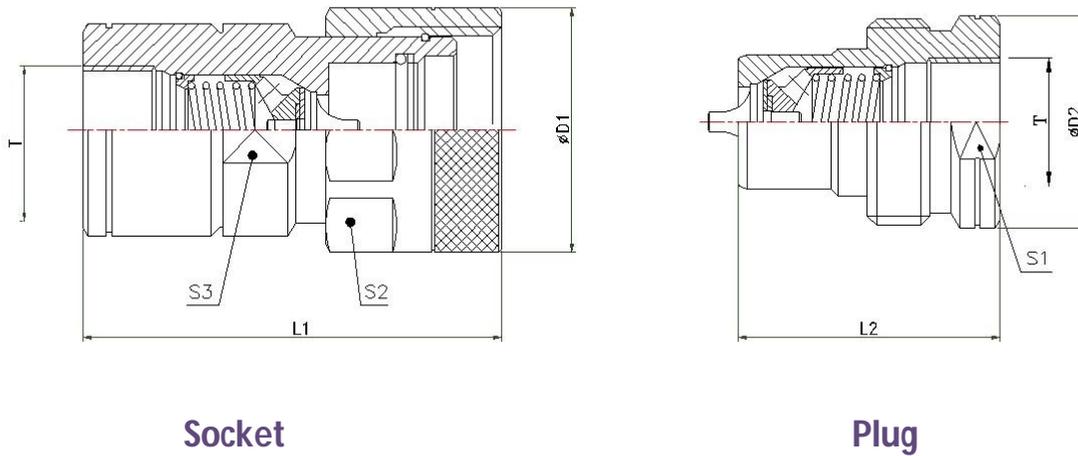
NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar.
 These dimensions are for reference only and are subject to change as per design modification

FEATURES

- 1) Connection System: By screwing together the two parts
- 2) Disconnection System: By unscrewing the two parts
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Under Residual Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS: 4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation.
- 7) Designed to achieve higher flow rates @ lower pressure drops.



SCREW COUPLING HPSC SERIES



Socket

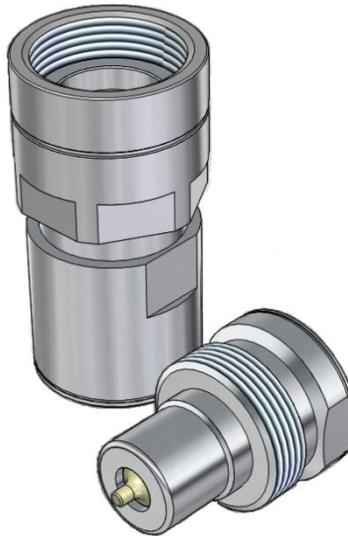
Plug

| DN | Size | Thread Type | Plug Part No. | Socket Part No. | Specifications | | | | | | | | | |
|------|--------|-------------|---------------|-----------------|----------------|------|----|----|----|--------|--------|-------|------------------|------------------|
| | | | | | L1 | L2 | S1 | S2 | S3 | DIA D1 | DIA D2 | L | Max Operating Pr | Minimum Burst Pr |
| 6.3 | 1/4" | 1/4" BSP | U00MAHFBA | U00FAHFBA | 59 | 36 | 19 | 19 | 19 | 40 | 30 | 72 | 950 | 3800 |
| 10 | 3/8" | 3/8" BSP | U00MBHFBB | U00FBHFBB | 62 | 48 | 32 | 41 | 30 | 45 | 35 | 89.5 | 750 | 3000 |
| 12.5 | 1/2" | 1/2" BSP | U00MCHFBC | U00FCHFBC | 71 | 53 | 34 | 46 | 34 | 50 | 39.2 | 102 | 750 | 3000 |
| 20 | 3/4" | 3/4" BSP | U00MDHFBE | U00FDHFBE | 88 | 63 | 46 | 51 | 41 | 55 | 50 | 121.8 | 650 | 2600 |
| 25 | 1" | 1" BSP | U00MEHFBF | U00FEHFBF | 100 | 72.1 | 50 | 55 | 50 | 60 | 55 | 138.4 | 450 | 1800 |
| 31.5 | 1 1/4" | 1 1/4" BSP | U00MFHFBG | U00FFHFBG | 123 | 86.2 | 65 | 75 | 65 | 80 | 70 | 167.2 | 450 | 1800 |
| 40 | 1 1/2" | 1 1/2" BSP | U00MGHFBH | U00FGHFBH | 137.4 | 95.6 | 80 | 90 | 75 | 98 | 84 | 188.4 | 300 | 1200 |
| 50 | 2" | 2" BSP | U00MHHFBJ | U00FHHFBJ | 203.5 | 118 | 71 | 71 | 71 | 110 | 90 | 237 | 300 | 1200 |

NOTE: All dimensions are in mm, unless otherwise specified. Pressure in bar. These dimensions are for reference only and are subject to change as per design modifications

FEATURES

- 1) Connection System: By pulling back the sleeve.
- 2) Disconnection System: By pulling back the sleeve.
- 3) Shut-off System: Poppet Valve
- 4) Connectable: Without Pressure
- 5) Materials
 - Body: Carbon Steel-EN1A/EN8DM
 - Springs: Spring Steel as per IS:4454 Grade II
 - Balls: AISI E-52100 Grade 100
 - Seals: NBR (Nitrile) Temperature Range -30° to 100°C
 - Back up Ring: PTFE
- 6) Surface Treatment: Zinc Plating with Cr III based Passivation
- 7) Designed to achieve higher flow rates @ lower pressure drops.

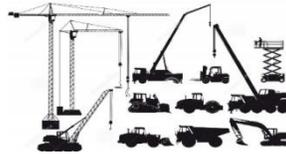


Application Areas



TRACTOR AND FARM IMPLEMENTS

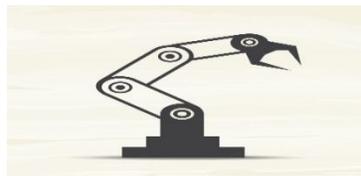
UNITREAD quick release couplings find a very wide application in Tractors and many farm implements. Specific series of couplings are developed to meet various typical applications. Our products are approved by OEMs in Tractors, Combines, Harvesters, Trailers and other allied farm equipment's. The strict compliance to ISO 7241 part A standard ensures interchangeability worldwide.



MOBILE HYDRAULICS

(Earth Moving, Construction, Mining, Road Equipments)

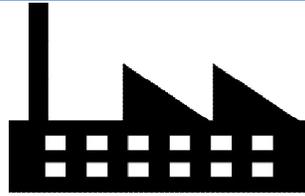
This industry typically relies on **UNITREAD Flat Face** couplings that ensures excellent functioning in dusty and harsh environments and avoids spillage during connection and disconnection. The valve designs are unique such that the performance and reliability are achieved. The strict compliance to ISO16028 adds to worldwide interchangeability. The use of MULTILINE couplings are now being used in this sector.



HYDRAULIC TOOLS

(Power tools, Jacks, Breakers, Rescue tools, etc..)

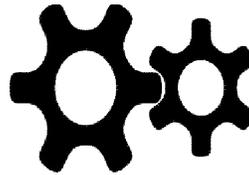
UNITREAD offers both flat face, screw type and other series to meet the exacting stds of the hydraulic tool industry. Depending on the requirement of safety, vibration, pressure, spillage helps in connecting in various applications like Jacks, power tools, breaking, fire and rescue field tools.



PROCESS INDUSTRY

(Chemical, Pharma, Paint, Oil and Gas , etc ..)

The industry requirement of varied fluid usage ,temperature ,corrosion resistance is addressed by **UNITREAD** manufacturing in various grades of materials like stainless steel like AISI(304,316,316L) along with the requisite seals and protective treatments for harsh wear resistance.



SHOPFLOOR

(Machine shop, Press Shop, Plastic Molding)

Quick changeover needs of the shop floor to reduce idle times and least machinery breakdown are addressed by **UNITREAD** by using the valve type or flat face series. Typical applications like die change, pallet change, mold change etc.



CUSTOMISED SOLUTIONS

Due to its strong engineering team **UNITREAD** is able to offer its customers, tailor made customized solutions to cater to their specific requirements.



UNITED TYREKRAFTS PVT LTD

Gat No. 1087, Near Polybond India Ltd.

Sanaswadi, Talegaon Dhamdhere

Pune, India. 412 208

Website: www.unitread.co.in

Email us at : pnv@unitread.co.in, sales@unitread.co.in, esales@unitread.co.in

Tel/Phone: (+91)20-66203030, (+91)9823013496, 9730070401, 9970064922

