

## // FPK

FLAT FACE STANDARD ISO 16028

## TOP COAT



DN 6 to 25



WP 350 bar

// Flow performance optimized by CFD

// Low leak-oil rates, eco-friendly

// Robust, compact and lightweight

// Extended temperature range

**General features:** ARGUS FPK flat face quick release couplings are used for quick coupling and uncoupling of hydraulic lines. During the coupling action in zero or low-pressure ranges, valves that release or block the flow are automatically activated. The FPK flat face quick release coupling, formed by a coupling plug and a coupling socket, is coupled by pushing on a sleeve. This guarantees a flush connection between the two coupling halves. The sleeve is designed to be moved in the relevant direction for disconnecting or connecting the coupling halves. A safety system against accidental uncoupling is present on the female part.

**Materials:** galvanised steel with hardened parts subject to wear. HNBR seals (other materials on request) - Backup rings PTFE - Thermoplastic dust cap and dust plug. Top Coat Cr-III zinc plating with additional trivalent passivation for outstanding surface protection.

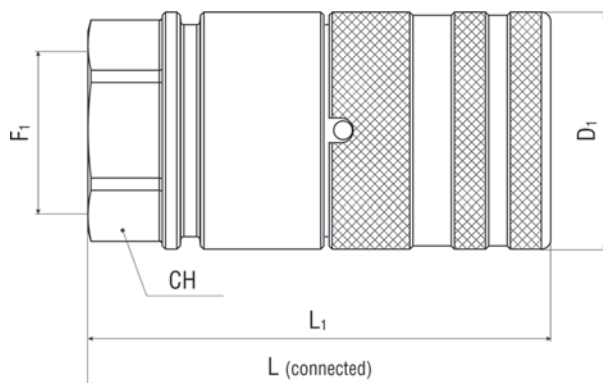
**Application:** suitable for liquid lines with mineral oil-based hydraulic fluids to DIN 51524 T1+T2. Also available for flame-resistant hydraulic fluids to VDMA 24317, for pneumatic and water hydraulics in appropriate materials on request.

**Norm:** ISO 16028

**Temperature range:**

-30 °C +125 °C

**Note:** other sizes and connection types available on request. Specific instructions for installation, use and maintenance are separately provided.

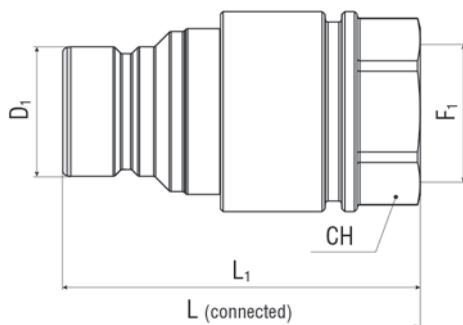


**STANDARD ISO 16028 - FLAT FACE FPK**

Female coupling - Female thread

| Item Code |      |      |      | WP Conn.<br>MPa | BP Disconn.<br>MPa | Thread 1 | F1           | D1<br>mm | CH<br>mm | L1<br>mm | L<br>mm |
|-----------|------|------|------|-----------------|--------------------|----------|--------------|----------|----------|----------|---------|
|           | Dash | mm   | inch |                 |                    |          |              |          |          |          |         |
| 1229101   | 04   | 6,0  | 1/4" | 35,0            | 140,0              | BSPP     | 1/4-19       | 26,0     | 22,0     | 57,8     | 97,00   |
| 1229102   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | BSPP     | 3/8-19       | 32,0     | 27,0     | 69,3     | 117,00  |
| 1224380   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | BSPP     | 1/2-14       | 32,0     | 27,0     | 69,3     | 117,00  |
| 1229103   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | BSPP     | 1/2-14       | 38,0     | 32,0     | 74,5     | 125,00  |
| 1224381   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | BSPP     | 3/4-14       | 38,0     | 32,0     | 74,5     | 125,00  |
| 1232287   | 10   | 16,0 | 5/8" | 35,0            | 140,0              | BSPP     | 3/4-14       | 40,0     | 34,0     | 81,3     | 134,00  |
| 1229105   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | BSPP     | 3/4-14       | 48,0     | 42,0     | 93,0     | 156,00  |
| 1224382   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | BSPP     | 1-11         | 48,0     | 42,0     | 93,0     | 156,00  |
| 1229106   | 16   | 25,0 | 1"   | 35,0            | 140,0              | BSPP     | 1 1/4-11     | 55,0     | 50,0     | 101,0    | 177,00  |
| 1231464   | 16   | 25,0 | 1"   | 35,0            | 140,0              | BSPP     | 1-11         | 55,0     | 50,0     | 101,0    | 177,00  |
| 1231469   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | MET      | M22X1.5      | 32,0     | 27,0     | 69,3     | 117,00  |
| 1229213   | 04   | 6,0  | 1/4" | 35,0            | 140,0              | NPTF     | 1/4-18       | 26,0     | 22,0     | 57,8     | 97,00   |
| 1229215   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | NPTF     | 1/2-14       | 32,0     | 27,0     | 69,3     | 117,00  |
| 1229214   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | NPTF     | 3/8-18       | 32,0     | 27,0     | 69,3     | 117,00  |
| 1229217   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | NPTF     | 3/4-14       | 38,0     | 32,0     | 74,5     | 125,00  |
| 1229216   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | NPTF     | 1/2-14       | 38,0     | 32,0     | 74,5     | 125,00  |
| 1232382   | 10   | 16,0 | 5/8" | 35,0            | 140,0              | NPTF     | 3/4-14       | 40,0     | 34,0     | 81,3     | 134,00  |
| 1229219   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | NPTF     | 3/4-14       | 48,0     | 42,0     | 93,0     | 156,00  |
| 1232460   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | NPTF     | 1-11 1/2     | 48,0     | 42,0     | 93,0     | 156,00  |
| 1231467   | 16   | 25,0 | 1"   | 35,0            | 140,0              | NPTF     | 1-11 1/2     | 55,0     | 50,0     | 101,0    | 177,00  |
| 1233075   | 16   | 25,0 | 1"   | 35,0            | 140,0              | NPTF     | 1 1/4-11 1/2 | 55,0     | 50,0     | 101,0    | 177,00  |
| 1233978   | 04   | 6,0  | 1/4" | 35,0            | 140,0              | SAE-OB   | 7/16-20      | 26,0     | 22,0     | 57,8     | 97,00   |
| 1229236   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | SAE-OB   | 9/16-18      | 32,0     | 27,0     | 71,3     | 119,00  |
| 1229238   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | SAE-OB   | 3/4-16       | 38,0     | 32,0     | 74,5     | 125,00  |
| 1232384   | 10   | 16,0 | 5/8" | 35,0            | 140,0              | SAE-OB   | 1 1/16-12    | 40,0     | 34,0     | 90,3     | 153,00  |
| 1229241   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | SAE-OB   | 1 1/16-12    | 48,0     | 42,0     | 107,3    | 185,30  |
| 1229243   | 16   | 25,0 | 1"   | 35,0            | 140,0              | SAE-OB   | 1 5/16-12    | 55,0     | 50,0     | 107,3    | 185,30  |

BSPP connection according to DIN 3852-2-X, NPTF connection according to ANSI B1-20.3, metric connection according to ISO 6149-1, SAE UNF/UN connection according to SAE J 1926-1.

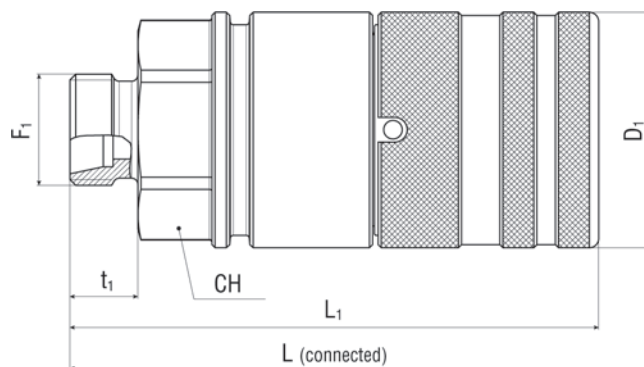


**STANDARD ISO 16028 - FLAT FACE FPK**

Male coupling - Female thread


| Item Code |      |      |      | WP Conn.<br>MPa | BP Disconn.<br>MPa | Thread 1 | F1           | D1<br>mm | CH<br>mm | L1<br>mm | L<br>mm |
|-----------|------|------|------|-----------------|--------------------|----------|--------------|----------|----------|----------|---------|
|           | Dash | mm   | inch |                 |                    |          |              |          |          |          |         |
| 1229109   | 04   | 6,0  | 1/4" | 35,0            | 140,0              | BSPP     | 1/4-19       | 16,2     | 20,0     | 50,5     | 97,00   |
| 1229110   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | BSPP     | 3/8-19       | 19,7     | 27,0     | 64,0     | 117,00  |
| 1229111   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | BSPP     | 1/2-14       | 19,7     | 27,0     | 64,0     | 117,00  |
| 1229112   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | BSPP     | 1/2-14       | 24,6     | 32,0     | 72,0     | 129,00  |
| 1224377   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | BSPP     | 3/4-14       | 24,6     | 32,0     | 68,0     | 125,00  |
| 1232288   | 10   | 16,0 | 5/8" | 35,0            | 140,0              | BSPP     | 3/4-14       | 27,0     | 34,0     | 70,0     | 134,00  |
| 1229113   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | BSPP     | 3/4-14       | 29,9     | 42,0     | 85,0     | 156,00  |
| 1224378   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | BSPP     | 1-11         | 29,9     | 42,0     | 85,0     | 156,00  |
| 1231463   | 16   | 25,0 | 1"   | 35,0            | 140,0              | BSPP     | 1-11         | 36,0     | 50,0     | 99,0     | 177,00  |
| 1229114   | 16   | 25,0 | 1"   | 35,0            | 140,0              | BSPP     | 1 1/4-11     | 36,0     | 50,0     | 99,0     | 177,00  |
| 1231468   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | MET      | M22X1.5      | 19,7     | 27,0     | 64,0     | 117,00  |
| 1229224   | 04   | 6,0  | 1/4" | 35,0            | 140,0              | NPTF     | 1/4-18       | 16,2     | 20,0     | 50,5     | 97,00   |
| 1229226   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | NPTF     | 1/2-14       | 19,7     | 27,0     | 64,0     | 117,00  |
| 1229225   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | NPTF     | 3/8-18       | 19,7     | 27,0     | 64,0     | 117,00  |
| 1229227   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | NPTF     | 1/2-14       | 24,6     | 32,0     | 68,0     | 125,00  |
| 1229228   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | NPTF     | 3/4-14       | 24,6     | 32,0     | 68,0     | 125,00  |
| 1232383   | 10   | 16,0 | 5/8" | 35,0            | 140,0              | NPTF     | 3/4-14       | 27,0     | 34,0     | 70,0     | 134,00  |
| 1232461   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | NPTF     | 1-11 1/2     | 29,9     | 42,0     | 85,0     | 156,00  |
| 1229230   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | NPTF     | 3/4-14       | 29,9     | 42,0     | 85,0     | 156,00  |
| 1231466   | 16   | 25,0 | 1"   | 35,0            | 140,0              | NPTF     | 1-11 1/2     | 36,0     | 50,0     | 99,0     | 177,00  |
| 1233076   | 16   | 25,0 | 1"   | 35,0            | 140,0              | NPTF     | 1 1/4-11 1/2 | 36,0     | 50,0     | 99,0     | 177,00  |
| 1233980   | 04   | 6,0  | 1/4" | 35,0            | 140,0              | SAE-OB   | 7/16-20      | 16,2     | 20,0     | 50,5     | 97,00   |
| 1229247   | 06   | 10,0 | 3/8" | 35,0            | 140,0              | SAE-OB   | 9/16-18      | 19,7     | 27,0     | 64,0     | 119,00  |
| 1229249   | 08   | 13,0 | 1/2" | 35,0            | 140,0              | SAE-OB   | 3/4-16       | 24,6     | 32,0     | 72,0     | 125,00  |
| 1232385   | 10   | 16,0 | 5/8" | 35,0            | 140,0              | SAE-OB   | 1 1/16-12    | 27,0     | 34,0     | 80,0     | 153,00  |
| 1229252   | 12   | 19,0 | 3/4" | 35,0            | 140,0              | SAE-OB   | 1 1/16-12    | 29,9     | 42,0     | 87,0     | 164,50  |
| 1229254   | 16   | 25,0 | 1"   | 35,0            | 140,0              | SAE-OB   | 1 5/16-12    | 36,0     | 50,0     | 99,0     | 185,30  |

BSPP connection according to DIN 3852-2-X, NPTF connection according to ANSI B1-20.3, metric connection according to ISO 6149-1, SAE UNF/UN connection according to SAE J 1926-1.



**STANDARD ISO 16028 - FLAT FACE FPK**

Female coupling - Metric 24° light/heavy series

| Item Code |  |      |      | WP Conn.<br>MPa | BP Disconn.<br>MPa | Thread 1 | F1      | OD1<br>mm | D1<br>mm | t1<br>mm | CH<br>mm | L1<br>mm | L<br>mm |
|-----------|---|------|------|-----------------|--------------------|----------|---------|-----------|----------|----------|----------|----------|---------|
|           | Dash  | mm   | inch |                 |                    |          |         |           |          |          |          |          |         |
| 1234726   | 04  | 6,0  | 1/4" | 35,0            | 140,0              | D24L     | M14X1.5 | 8         | 26,0     | 10,0     | 22,0     | 67,7     | 117,20  |
| 1229118   | 06  | 10,0 | 3/8" | 35,0            | 140,0              | D24L     | M16X1.5 | 10        | 32,0     | 11,0     | 27,0     | 82,3     | 141,40  |
| 1223449   | 06  | 10,0 | 3/8" | 35,0            | 140,0              | D24L     | M18X1.5 | 12        | 32,0     | 11,0     | 27,0     | 82,3     | 141,40  |
| 1234030   | 06  | 10,0 | 3/8" | 35,0            | 140,0              | D24L     | M22X1.5 | 15        | 32,0     | 12,0     | 27,0     | 83,3     | 143,40  |
| 1223438   | 08  | 13,0 | 1/2" | 35,0            | 140,0              | D24L     | M18X1.5 | 12        | 38,0     | 11,0     | 32,0     | 85,6     | 151,20  |
| 1223440   | 08  | 13,0 | 1/2" | 35,0            | 140,0              | D24L     | M22X1.5 | 15        | 38,0     | 12,0     | 32,0     | 86,6     | 153,20  |
| 1229120   | 12  | 19,0 | 3/4" | 35,0            | 140,0              | D24L     | M26X1.5 | 18        | 48,0     | 12,0     | 42,0     | 105,5    | 180,50  |
| 1229121   | 12  | 19,0 | 3/4" | 35,0            | 140,0              | D24L     | M30X2   | 22        | 48,0     | 14,0     | 42,0     | 107,5    | 184,50  |
| 1234031   | 16  | 25,0 | 1"   | 35,0            | 140,0              | D24L     | M30X2   | 22        | 55,0     | 14,0     | 50,0     | 118,3    | 208,20  |
| 1229122   | 16  | 25,0 | 1"   | 35,0            | 140,0              | D24L     | M36X2   | 28        | 55,0     | 14,0     | 50,0     | 118,3    | 208,20  |
| 1234032   | 04  | 6,0  | 1/4" | 35,0            | 140,0              | D24S     | M16X1.5 | 8         | 26,0     | 12,0     | 22,0     | 69,7     | 121,20  |
| 1234033   | 06  | 10,0 | 3/8" | 35,0            | 140,0              | D24S     | M20X1.5 | 12        | 32,0     | 12,0     | 27,0     | 83,3     | 143,40  |
| 1234034   | 06  | 10,0 | 3/8" | 35,0            | 140,0              | D24S     | M22X1.5 | 14        | 32,0     | 14,0     | 27,0     | 85,3     | 147,40  |
| 1234035   | 06  | 10,0 | 3/8" | 35,0            | 140,0              | D24S     | M24X1.5 | 16        | 32,0     | 14,0     | 27,0     | 85,3     | 147,40  |
| 1229153   | 08  | 13,0 | 1/2" | 35,0            | 140,0              | D24S     | M22X1.5 | 14        | 38,0     | 14,0     | 32,0     | 88,6     | 157,20  |
| 1234036   | 08  | 13,0 | 1/2" | 35,0            | 140,0              | D24S     | M24X1.5 | 16        | 38,0     | 14,0     | 32,0     | 88,6     | 157,20  |
| 1229156   | 12  | 19,0 | 3/4" | 35,0            | 140,0              | D24S     | M30X2   | 20        | 48,0     | 16,0     | 42,0     | 109,5    | 188,50  |
| 1234037   | 12  | 19,0 | 3/4" | 35,0            | 140,0              | D24S     | M36X2   | 25        | 48,0     | 18,0     | 42,0     | 111,5    | 192,50  |
| 1234038   | 12  | 19,0 | 3/4" | 35,0            | 140,0              | D24S     | M42X2   | 30        | 48,0     | 20,0     | 46,0     | 113,5    | 196,50  |
| 1229157   | 16  | 25,0 | 1"   | 35,0            | 140,0              | D24S     | M36X2   | 25        | 55,0     | 18,0     | 50,0     | 122,3    | 216,20  |
| 1234039   | 16  | 25,0 | 1"   | 35,0            | 140,0              | D24S     | M42X2   | 30        | 56,0     | 20,0     | 50,0     | 124,3    | 224,20  |

Metric connection according to DIN EN ISO 8434-1.