

HYDRAULIC HOSE

HOSE FOR GENERAL HYDRAULIC OIL PIPING / F TYPE(for low and medium pressure)

<Specifications>

- Construction : Tube ----- Synthetic rubber excellent in oil resistance
Reinforcement ----- Synthetic fiber
Cover ----- Synthetic rubber excellent in oil and weather resistance
- Fluid temperature : -40°C to +100°C
Fluid temperature for F-15-32, 38, 50 : -40°C to +80°C
- Ambient temperature : -40°C to +70°C

⚠ Caution : Don't use F types in a place where a sharp object touches since the reinforcing layer consists of synthetic fiber K, Z and NSL types are recommended when you use them as dynamic pipe.

※The specifications showed in yellow indicate our standard products.

F-15

| Part No. | Nominal Size | I.D. (mm) | O.D. (mm) | Rein-forcement | Max Working Pressure (MPa) | Min Burst Pressure (MPa) | Min Bend Radius (mm) | Approx. Weight (g/m) |
|----------|--------------|-----------|-----------|----------------|----------------------------|--------------------------|----------------------|----------------------|
| F-15-06 | 6 | 6.3 | 13.0 | 2S | 1.5 | 6.0 | 75 | 130 |
| F-15-09 | 9 | 9.5 | 16.7 | 2S | 1.5 | 6.0 | 95 | 175 |
| F-15-12 | 12 | 12.7 | 20.5 | 2S | 1.5 | 6.0 | 120 | 250 |
| F-15-19 | 19 | 19.0 | 30.0 | 2S | 1.5 | 6.0 | 175 | 585 |
| F-15-25 | 25 | 25.4 | 37.0 | 2S | 1.5 | 6.0 | 225 | 785 |
| F-15-32 | 32 | 31.8 | 45.5 | 2B | 1.5 | 6.0 | 330 | 1,020 |
| F-15-38 | 38 | 38.1 | 52.8 | 2B | 1.5 | 6.0 | 380 | 1,350 |
| F-15-50 | 50 | 50.8 | 69.0 | 2B | 1.5 | 6.0 | 500 | 2,290 |

F-35

| Part No. | Nominal Size | I.D. (mm) | O.D. (mm) | Rein-forcement | Max Working Pressure (MPa) | Min Burst Pressure (MPa) | Min Bend Radius (mm) | Approx. Weight (g/m) |
|----------|--------------|-----------|-----------|----------------|----------------------------|--------------------------|----------------------|----------------------|
| F-35-06 | 6 | 6.3 | 13.0 | 2S | 3.5 | 14.0 | 75 | 130 |
| F-35-09 | 9 | 9.5 | 16.7 | 2S | 3.5 | 14.0 | 100 | 175 |
| F-35-12 | 12 | 12.7 | 20.5 | 2S | 3.5 | 14.0 | 125 | 250 |
| F-35-19 | 19 | 19.0 | 32.6 | 2B | 3.5 | 14.0 | 195 | 755 |
| F-35-25 | 25 | 25.4 | 39.2 | 2B | 3.5 | 14.0 | 240 | 960 |
| F-35-32 | 32 | 31.8 | 46.0 | 2B | 3.5 | 14.0 | 295 | 1,100 |
| F-35-38 | 38 | 38.1 | 52.3 | 2B | 3.5 | 14.0 | 370 | 1,320 |
| F-35-50 | 50 | 50.8 | 66.2 | 2B | 3.5 | 14.0 | 435 | 1,905 |



TOGAWA RUBBER CO., LTD.

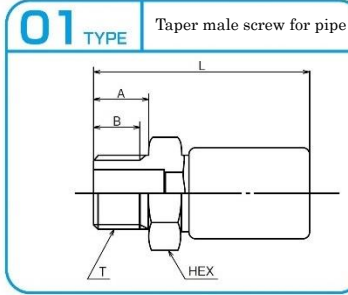
4-2-5 MINAMI-HORIE, NISHI-KU, OSAKA, 550-0015, JAPAN.

TEL: +81-6-6538-1261 FAX: +81-6-6531-3238

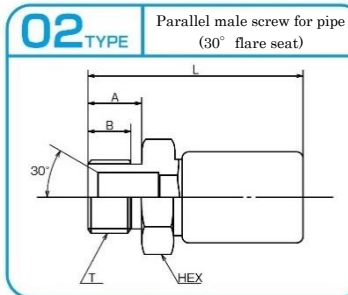
E-mail: eigyo@togawa.co.jp URL: <https://www.togawa.co.jp>

HOSE COUPLING

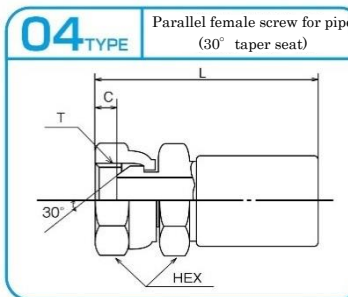
Hose for general hydraulic oil piping / F type



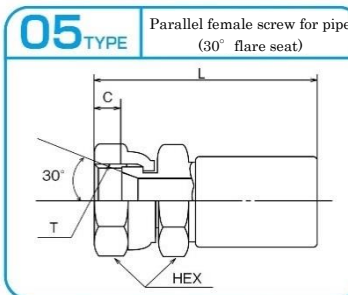
| Nominal Size | T Thread | I.D. (mm) | A (mm) | B (mm) | L (mm) | HEX (mm) | Part No. | Hose Part No. |
|--------------|--------------------------------|-----------|--------|--------|--------|----------|-----------|---------------|
| 6 | R ¹ / ₄ | 4 | 13 | 10 | 46.5 | 17 | 6-01-F | F-15·F-35 |
| 9 | R ³ / ₈ | 6 | 15 | 12 | 50.5 | 19 | 9-01-F | F-15·F-35 |
| 12 | R ¹ / ₂ | 9.5 | 18 | 15 | 59 | 22 | 12-01-F | F-15·F-35 |
| 19 | R ³ / ₄ | 15.5 | 20 | 17 | 72 | 30 | 19-01-F15 | F-15 |
| | | | | | 79 | 36 | 19-01-F35 | F-35 |
| 25 | R1 | 20.5 | 22 | 19 | 79 | 36 | 25-01-F15 | F-15 |
| | | | | | 88 | 41 | 25-01-F35 | F-35 |
| 32 | R1 ¹ / ₄ | 27 | 26 | 23 | 95 | 46 | 32-01-F15 | F-15 |
| | | | | | 113 | 50 | 32-01-F35 | F-35 |
| 38 | R1 ¹ / ₂ | 33 | 26 | 23 | 104 | 50 | 38-01-F15 | F-15 |
| | | | | | 117 | 60 | 38-01-F35 | F-35 |
| 50 | R2 | 46 | 30 | 26 | 132 | 65 | 50-01-F15 | F-15 |
| | | | | | 134 | 70 | 50-01-F35 | F-35 |



| Nominal Size | T Thread | I.D. (mm) | A (mm) | B (mm) | L (mm) | HEX (mm) | Part No. | Hose Part No. |
|--------------|--------------------------------|-----------|--------|--------|--------|----------|-----------|---------------|
| 6 | G ¹ / ₄ | 4 | 13 | 10 | 46.5 | 17 | 6-02-F | F-15·F-35 |
| 9 | G ³ / ₈ | 6 | 15 | 12 | 50.5 | 19 | 9-02-F | F-15·F-35 |
| 12 | G ¹ / ₂ | 9.5 | 18 | 15 | 59 | 22 | 12-02-F | F-15·F-35 |
| 19 | G ³ / ₄ | 15.5 | 20 | 17 | 72 | 30 | 19-02-F15 | F-15 |
| | | | | 16 | 79 | 36 | 19-02-F35 | F-35 |
| 25 | G1 | 20.5 | 22 | 19 | 79 | 36 | 25-02-F15 | F-15 |
| | | | | 18 | 88 | 41 | 25-02-F35 | F-35 |
| 32 | G1 ¹ / ₄ | 27 | 26 | 21 | 95 | 46 | 32-02-F15 | F-15 |
| | | | | | 113 | 50 | 32-02-F35 | F-35 |
| 38 | G1 ¹ / ₂ | 33 | 26 | 21 | 104 | 50 | 38-02-F15 | F-15 |
| | | | | | 117 | 60 | 38-02-F35 | F-35 |
| 50 | G2 | 46 | 30 | 25 | 132 | 65 | 50-02-F15 | F-15 |
| | | | | | 134 | 70 | 50-02-F35 | F-35 |



| Nominal Size | T Thread | I.D. (mm) | C (mm) | L (mm) | Nut HEX (mm) | Nipple HEX (mm) | Part No. | Hose Part No. |
|--------------|--------------------------------|-----------|--------|--------|--------------|-----------------|-----------|---------------|
| 6 | G ¹ / ₄ | 4 | 5.5 | 52 | 19 | 17 | 6-04-F | F-15·F-35 |
| 9 | G ³ / ₈ | 6 | 6.5 | 56 | 22 | 19 | 9-04-F | F-15·F-35 |
| 12 | G ¹ / ₂ | 9.5 | 6 | 64 | 27 | 22 | 12-04-F | F-15·F-35 |
| 19 | G ³ / ₄ | 15.5 | 8 | 77.5 | 36 | 30 | 19-04-F15 | F-15 |
| | | | 7.5 | 83 | 36 | 36 | 19-04-F35 | F-35 |
| 25 | G1 | 20.5 | 9 | 86 | 41 | 36 | 25-04-F15 | F-15 |
| | | | | 92 | 41 | 41 | 25-04-F35 | F-35 |
| 32 | G1 ¹ / ₄ | 27 | 13 | 100.5 | 50 | 46 | 32-04-F15 | F-15 |
| | | | | 119 | | 50 | 32-04-F35 | F-35 |
| 38 | G1 ¹ / ₂ | 33 | 13 | 110.5 | 60 | 50 | 38-04-F15 | F-15 |
| | | | | 124 | | 60 | 38-04-F35 | F-35 |
| 50 | G2 | 46 | 16 | 138.5 | 70 | 65 | 50-04-F15 | F-15 |
| | | | | 141 | | 70 | 50-04-F35 | F-35 |



| Nominal Size | T Thread | I.D. (mm) | C (mm) | L (mm) | Nut HEX (mm) | Nipple HEX (mm) | Part No. | Hose Part No. |
|--------------|--------------------------------|-----------|--------|--------|--------------|-----------------|-----------|---------------|
| 6 | G ¹ / ₄ | 4 | 8.5 | 52 | 19 | 17 | 6-05-F | F-15·F-35 |
| 9 | G ³ / ₈ | 6 | 10.5 | 56 | 22 | 19 | 9-05-F | F-15·F-35 |
| 12 | G ¹ / ₂ | 9.5 | 11.5 | 64 | 27 | 22 | 12-05-F | F-15·F-35 |
| 19 | G ³ / ₄ | 15.5 | 14 | 77.5 | 36 | 30 | 19-05-F15 | F-15 |
| | | | 13.5 | 83 | 36 | 36 | 19-05-F35 | F-35 |
| 25 | G1 | 20.5 | 14 | 86 | 41 | 36 | 25-05-F15 | F-15 |
| | | | | 92 | 41 | 41 | 25-05-F35 | F-35 |
| 32 | G1 ¹ / ₄ | 27 | 16 | 100.5 | 50 | 46 | 32-05-F15 | F-15 |
| | | | | 119 | | 50 | 32-05-F35 | F-35 |
| 38 | G1 ¹ / ₂ | 33 | 16 | 110.5 | 60 | 50 | 38-05-F15 | F-15 |
| | | | | 124 | | 60 | 38-05-F35 | F-35 |
| 50 | G2 | 46 | 19 | 138.5 | 70 | 65 | 50-05-F15 | F-15 |
| | | | | 141 | | 70 | 50-05-F35 | F-35 |