



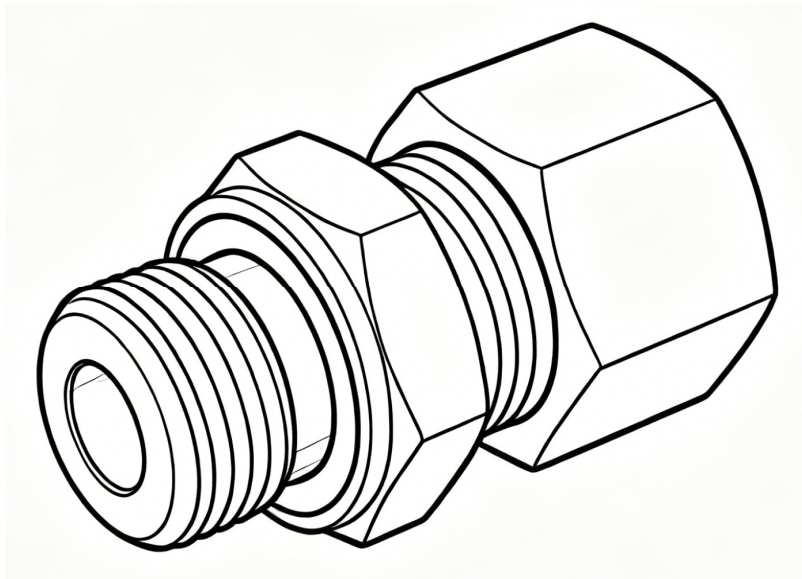
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DIN FITTING





| Cutting Ring | | |
|--------------|--------|---------|
| | | |
| Order No. | Series | D1 (mm) |
| 30-1900-001 | LL | 04 |
| 30-1900-002 | | 06 |
| 30-1900-003 | | 08 |
| 30-1900-004 | | 10 |
| 30-1900-005 | | 12 |
| 30-1900-006 | L | 06 |
| 30-1900-007 | | 08 |
| 30-1900-008 | | 10 |
| 30-1900-009 | | 12 |
| 30-1900-010 | | 15 |
| 30-1900-011 | | 18 |
| 30-1900-012 | | 22 |
| 30-1900-013 | | 28 |
| 30-1900-014 | | 35 |
| 30-1900-015 | | 42 |
| 30-1900-016 | S | 06 |
| 30-1900-017 | | 08 |
| 30-1900-018 | | 10 |
| 30-1900-019 | | 12 |
| 30-1900-020 | | 14 |
| 30-1900-021 | | 16 |
| 30-1900-022 | | 20 |
| 30-1900-023 | | 25 |
| 30-1900-024 | | 30 |
| 30-1900-025 | | 38 |



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| Fitting Nut | | | | |
|--------------------|-----------------|--------|---------|---------|
| | | | | |
| Order No. (CS) | Order No. (304) | Series | D1 (mm) | T1 |
| 30-1901-001 | 30-2901-001 | LL | 04 | M8x1 |
| 30-1901-002 | 30-2901-002 | | 06 | M10x1 |
| 30-1901-003 | 30-2901-003 | | 08 | M12x1 |
| 30-1901-004 | 30-2901-004 | | 10 | M14x1 |
| 30-1901-005 | 30-2901-005 | | 12 | M16x1 |
| 30-1901-006 | 30-2901-006 | L | 06 | M12x1.5 |
| 30-1901-007 | 30-2901-007 | | 08 | M14x1.5 |
| 30-1901-008 | 30-2901-008 | | 10 | M16x1.5 |
| 30-1901-009 | 30-2901-009 | | 12 | M18x1.5 |
| 30-1901-010 | 30-2901-010 | | 15 | M22x1.5 |
| 30-1901-011 | 30-2901-011 | | 18 | M26x1.5 |
| 30-1901-012 | 30-2901-012 | | 22 | M30x2 |
| 30-1901-013 | 30-2901-013 | | 28 | M36x2 |
| 30-1901-014 | 30-2901-014 | | 35 | M45x2 |
| 30-1901-015 | 30-2901-015 | | 42 | M52x2 |
| 30-1901-016 | 30-2901-016 | S | 06 | M14x1.5 |
| 30-1901-017 | 30-2901-017 | | 08 | M16x1.5 |
| 30-1901-018 | 30-2901-018 | | 10 | M18x1.5 |
| 30-1901-019 | 30-2901-019 | | 12 | M20x1.5 |
| 30-1901-020 | 30-2901-020 | | 14 | M22x1.5 |
| 30-1901-021 | 30-2901-021 | | 16 | M24x1.5 |
| 30-1901-022 | 30-2901-022 | | 20 | M30x2 |
| 30-1901-023 | 30-2901-023 | | 25 | M36x2 |
| 30-1901-024 | 30-2901-024 | | 30 | M42x2 |
| 30-1901-025 | 30-2901-025 | | 38 | M52x2 |



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| Bulkhead Nut | | | | | | |
|---------------------|-----------------|--------|-----------|---------|---------|----|
| | | | | | | |
| Order No. (CS) | Order No. (304) | Series | Tube (mm) | M | h | SW |
| 30-1902-001 | 30-2902-001 | L | 06 | M12x1.5 | 6 | 17 |
| 30-1902-002 | 30-2902-002 | | 08 | M14x1.5 | 6 | 19 |
| 30-1902-003 | 30-2902-003 | | 10 | M16x1.5 | 6 | 22 |
| 30-1902-004 | 30-2902-004 | | 12 | M18x1.5 | 6 | 24 |
| 30-1902-005 | 30-2902-005 | | 15 | M22x1.5 | 7 | 30 |
| 30-1902-006 | 30-2902-006 | | 18 | M26x1.5 | 8 | 36 |
| 30-1902-007 | 30-2902-007 | | 22 | M30x2 | 8 | 41 |
| 30-1902-008 | 30-2902-008 | | 28 | M36x2 | 9 | 46 |
| 30-1902-009 | 30-2902-009 | | 35 | M45x2 | 9 | 55 |
| 30-1902-010 | 30-2902-010 | | 42 | M52x2 | 10 | 65 |
| 30-1902-011 | 30-2902-011 | | S | 06 | M14x1.5 | 6 |
| 30-1902-012 | 30-2902-012 | 08 | | M16x1.5 | 6 | 22 |
| 30-1902-013 | 30-2902-013 | 10 | | M18x1.5 | 6 | 24 |
| 30-1902-014 | 30-2902-014 | 12 | | M20x1.5 | 6 | 27 |
| 30-1902-015 | 30-2902-015 | 14 | | M22x1.5 | 7 | 30 |
| 30-1902-016 | 30-2902-016 | 16 | | M24x1.5 | 7 | 32 |
| 30-1902-017 | 30-2902-017 | 20 | | M30x2 | 8 | 41 |
| 30-1902-018 | 30-2902-018 | 25 | | M36x2 | 9 | 46 |
| 30-1902-019 | 30-2902-019 | 30 | | M42x2 | 9 | 50 |
| 30-1902-020 | 30-2902-020 | 38 | | M52x2 | 10 | 65 |

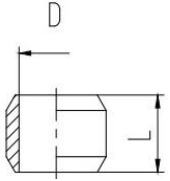



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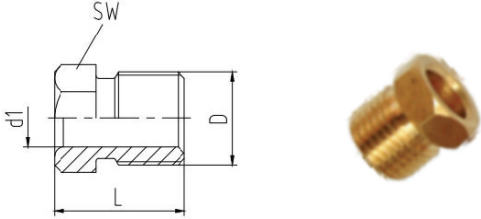
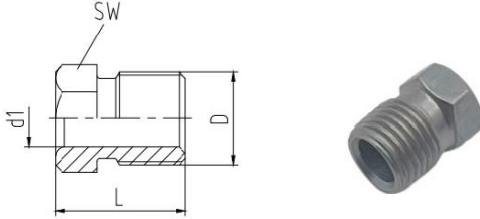
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| Double Cone | | |
|---|---|--------|
|  |  | |
| Order No. (AU) | D (mm) | L (mm) |
| 30-4903-001 | 03 | 2.6 |
| 30-4903-002 | 04 | 4.5 |
| 30-4903-003 | 06 | 5 |
| 30-4903-004 | 08 | 6.5 |
| 30-4903-005 | 08 | 6.5 |
| 30-4903-006 | 10 | 7 |
| 30-4903-007 | 12 | 8.5 |
| 30-4903-008 | 14 | 10 |

Material: Brass

| Socket Union | | | | | Socket Union | | | | |
|---|---------|----------|--------|----|--|---------|-------|--------|----|
|  | | | | |  | | | | |
| Order No. (AU) | d1 (mm) | D | L (mm) | SW | Order No. (AU) | d1 (mm) | D | L (mm) | SW |
| 30-4904-001 | 03 | M6x1 | 12 | 8 | | | | | |
| 30-4904-002 | 04 | M8x1 | 12 | 8 | 30-1904-002 | 04 | M8x1 | 12 | 8 |
| 30-4904-003 | 06 | M10x1 | 12.5 | 10 | 30-1904-003 | 06 | M10x1 | 14 | 10 |
| 30-4904-004 | 08 | M12x1 | 14 | 12 | Material: steel, galvanized surface | | | | |
| 30-4904-005 | 08 | M12x1.25 | 14 | 12 | | | | | |
| 30-4904-006 | 08 | M14x1.5 | 14 | 14 | | | | | |
| 30-4904-007 | 10 | M16x1.5 | 16 | 16 | | | | | |
| 30-4904-008 | 12 | M18x1.5 | 18 | 18 | | | | | |
| 30-4904-009 | 14 | M20x1.5 | 20 | 20 | | | | | |

Material: Brass



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| Union | | | | | |
|----------------|-----------------|--------|---------|----------|----|
| | | | | | |
| Order No. (CS) | Order No. (304) | Series | D1 (mm) | PN (BAR) | S2 |
| 31-1001-001 | 31-2001-001 | LL | 04 | 100 | 10 |
| 31-1001-002 | 31-2001-002 | | 06 | 100 | 12 |
| 31-1001-003 | 31-2001-003 | | 08 | 100 | 14 |
| 31-1001-004 | 31-2001-004 | | 10 | 100 | 17 |
| 31-1001-005 | 31-2001-005 | | 12 | 100 | 19 |
| 31-1001-006 | 31-2001-006 | L | 06 | 315 | 14 |
| 31-1001-007 | 31-2001-007 | | 08 | 315 | 17 |
| 31-1001-008 | 31-2001-008 | | 10 | 315 | 19 |
| 31-1001-009 | 31-2001-009 | | 12 | 315 | 22 |
| 31-1001-010 | 31-2001-010 | | 15 | 315 | 27 |
| 31-1001-011 | 31-2001-011 | | 18 | 315 | 32 |
| 31-1001-012 | 31-2001-012 | | 22 | 160 | 36 |
| 31-1001-013 | 31-2001-013 | | 28 | 160 | 41 |
| 31-1001-014 | 31-2001-014 | | 35 | 160 | 50 |
| 31-1001-015 | 31-2001-015 | | 42 | 160 | 60 |
| 31-1001-016 | 31-2001-016 | S | 06 | 630 | 17 |
| 31-1001-017 | 31-2001-017 | | 08 | 630 | 19 |
| 31-1001-018 | 31-2001-018 | | 10 | 630 | 22 |
| 31-1001-019 | 31-2001-019 | | 12 | 630 | 24 |
| 31-1001-020 | 31-2001-020 | | 14 | 630 | 27 |
| 31-1001-021 | 31-2001-021 | | 16 | 400 | 30 |
| 31-1001-022 | 31-2001-022 | | 20 | 400 | 36 |
| 31-1001-023 | 31-2001-023 | | 25 | 400 | 46 |
| 31-1001-024 | 31-2001-024 | | 30 | 400 | 50 |
| 31-1001-025 | 31-2001-025 | | 38 | 315 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



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| Union Elbow | | | | | |
|--------------------|-----------------|--------|---------|----------|----|
| | | | | | |
| Order No. (CS) | Order No. (304) | Series | D1 (mm) | PN (BAR) | S2 |
| 31-1002-001 | 31-2002-001 | LL | 04 | 100 | 10 |
| 31-1002-002 | 31-2002-002 | | 06 | 100 | 12 |
| 31-1002-003 | 31-2002-003 | | 08 | 100 | 14 |
| 31-1002-004 | 31-2002-004 | | 10 | 100 | 17 |
| 31-1002-005 | 31-2002-005 | | 12 | 100 | 19 |
| 31-1002-006 | 31-2002-006 | L | 06 | 315 | 14 |
| 31-1002-007 | 31-2002-007 | | 08 | 315 | 17 |
| 31-1002-008 | 31-2002-008 | | 10 | 315 | 19 |
| 31-1002-009 | 31-2002-009 | | 12 | 315 | 22 |
| 31-1002-010 | 31-2002-010 | | 15 | 315 | 27 |
| 31-1002-011 | 31-2002-011 | | 18 | 315 | 32 |
| 31-1002-012 | 31-2002-012 | | 22 | 160 | 36 |
| 31-1002-013 | 31-2002-013 | | 28 | 160 | 41 |
| 31-1002-014 | 31-2002-014 | | 35 | 160 | 50 |
| 31-1002-015 | 31-2002-015 | | 42 | 160 | 60 |
| 31-1002-016 | 31-2002-016 | S | 06 | 630 | 17 |
| 31-1002-017 | 31-2002-017 | | 08 | 630 | 19 |
| 31-1002-018 | 31-2002-018 | | 10 | 630 | 22 |
| 31-1002-019 | 31-2002-019 | | 12 | 630 | 24 |
| 31-1002-020 | 31-2002-020 | | 14 | 630 | 27 |
| 31-1002-021 | 31-2002-021 | | 16 | 400 | 30 |
| 31-1002-022 | 31-2002-022 | | 20 | 400 | 36 |
| 31-1002-023 | 31-2002-023 | | 25 | 400 | 46 |
| 31-1002-024 | 31-2002-024 | | 30 | 400 | 50 |
| 31-1002-025 | 31-2002-025 | | 38 | 315 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



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| Union Tee | | | | | |
|------------------|-----------------|--------|--------|----------|----|
| | | | | | |
| Order No. (CS) | Order No. (304) | Series | D (mm) | PN (BAR) | S2 |
| 31-1003-001 | 31-2003-001 | LL | 04 | 100 | 10 |
| 31-1003-002 | 31-2003-002 | | 06 | 100 | 12 |
| 31-1003-003 | 31-2003-003 | | 08 | 100 | 14 |
| 31-1003-004 | 31-2003-004 | | 10 | 100 | 17 |
| 31-1003-005 | 31-2003-005 | | 12 | 100 | 19 |
| 31-1003-006 | 31-2003-006 | L | 06 | 315 | 14 |
| 31-1003-007 | 31-2003-007 | | 08 | 315 | 17 |
| 31-1003-008 | 31-2003-008 | | 10 | 315 | 19 |
| 31-1003-009 | 31-2003-009 | | 12 | 315 | 22 |
| 31-1003-010 | 31-2003-010 | | 15 | 315 | 27 |
| 31-1003-011 | 31-2003-011 | | 18 | 315 | 32 |
| 31-1003-012 | 31-2003-012 | | 22 | 160 | 36 |
| 31-1003-013 | 31-2003-013 | | 28 | 160 | 41 |
| 31-1003-014 | 31-2003-014 | | 35 | 160 | 50 |
| 31-1003-015 | 31-2003-015 | | 42 | 160 | 60 |
| 31-1003-016 | 31-2003-016 | S | 06 | 630 | 17 |
| 31-1003-017 | 31-2003-017 | | 08 | 630 | 19 |
| 31-1003-018 | 31-2003-018 | | 10 | 630 | 22 |
| 31-1003-019 | 31-2003-019 | | 12 | 630 | 24 |
| 31-1003-020 | 31-2003-020 | | 14 | 630 | 27 |
| 31-1003-021 | 31-2003-021 | | 16 | 400 | 30 |
| 31-1003-022 | 31-2003-022 | | 20 | 400 | 36 |
| 31-1003-023 | 31-2003-023 | | 25 | 400 | 46 |
| 31-1003-024 | 31-2003-024 | | 30 | 400 | 50 |
| 31-1003-025 | 31-2003-025 | | 38 | 315 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



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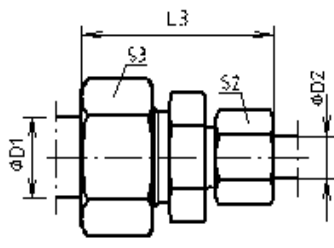
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Email: sales@inalube.com Website: <http://www.inalube.com>

| Union Cross | | | | | |
|--------------------|-----------------|--------|--------|----------|----|
| | | | | | |
| Order No. (CS) | Order No. (304) | Series | D (mm) | PN (BAR) | S2 |
| 31-1004-001 | 31-2004-001 | LL | 04 | 100 | 10 |
| 31-1004-002 | 31-2004-002 | | 06 | 100 | 12 |
| 31-1004-003 | 31-2004-003 | | 08 | 100 | 14 |
| 31-1004-004 | 31-2004-004 | L | 06 | 315 | 14 |
| 31-1004-005 | 31-2004-005 | | 08 | 315 | 17 |
| 31-1004-006 | 31-2004-006 | | 10 | 315 | 19 |
| 31-1004-007 | 31-2004-007 | | 12 | 315 | 22 |
| 31-1004-008 | 31-2004-008 | | 15 | 315 | 27 |
| 31-1004-009 | 31-2004-009 | | 18 | 315 | 32 |
| 31-1004-010 | 31-2004-010 | | 22 | 160 | 36 |
| 31-1004-011 | 31-2004-011 | | 28 | 160 | 41 |
| 31-1004-012 | 31-2004-012 | | 35 | 160 | 50 |
| 31-1004-013 | 31-2004-013 | | 42 | 160 | 60 |
| 31-1004-014 | 31-2004-014 | S | 06 | 630 | 17 |
| 31-1004-015 | 31-2004-015 | | 08 | 630 | 19 |
| 31-1004-016 | 31-2004-016 | | 10 | 630 | 22 |
| 31-1004-017 | 31-2004-017 | | 12 | 630 | 24 |
| 31-1004-018 | 31-2004-018 | | 14 | 400 | 27 |
| 31-1004-019 | 31-2004-019 | | 16 | 400 | 30 |
| 31-1004-020 | 31-2004-020 | | 20 | 315 | 36 |
| 31-1004-021 | 31-2004-021 | | 25 | 315 | 46 |
| 31-1004-022 | 31-2004-022 | | 30 | 315 | 50 |
| 31-1004-023 | 31-2004-023 | | 38 | 315 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| Straight Reducer | | | | | | | |
|---|-----------------|--------|---------|---------|----------|-----|----|
|  | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | D1 (mm) | D2 (mm) | PN (BAR) | S2 | S3 |
| 31-1005-001 | 31-2005-001 | LL | 06 | 04 | 100 | 10 | 12 |
| 31-1005-002 | 31-2005-002 | | 08 | 04 | 100 | 10 | 14 |
| 31-1005-003 | 31-2005-003 | | 08 | 06 | 100 | 12 | 14 |
| 31-1005-004 | 31-2005-004 | L | 08 | 06 | 315 | 14 | 17 |
| 31-1005-005 | 31-2005-005 | | 10 | 06 | 315 | 14 | 19 |
| 31-1005-006 | 31-2005-006 | | 10 | 08 | 315 | 17 | 19 |
| 31-1005-007 | 31-2005-007 | | 12 | 06 | 315 | 14 | 22 |
| 31-1005-008 | 31-2005-008 | | 12 | 08 | 315 | 17 | 22 |
| 31-1005-009 | 31-2005-009 | | 12 | 10 | 315 | 19 | 22 |
| 31-1005-010 | 31-2005-010 | | 15 | 10 | 315 | 19 | 27 |
| 31-1005-011 | 31-2005-011 | | 15 | 12 | 315 | 22 | 27 |
| 31-1005-012 | 31-2005-012 | | 18 | 10 | 315 | 19 | 32 |
| 31-1005-013 | 31-2005-013 | | 18 | 12 | 315 | 22 | 32 |
| 31-1005-014 | 31-2005-014 | | 18 | 15 | 315 | 27 | 32 |
| 31-1005-015 | 31-2005-015 | | 22 | 12 | 160 | 22 | 36 |
| 31-1005-016 | 31-2005-016 | | 22 | 15 | 160 | 27 | 36 |
| 31-1005-017 | 31-2005-017 | | 22 | 18 | 160 | 32 | 36 |
| 31-1005-018 | 31-2005-018 | | 28 | 18 | 160 | 32 | 41 |
| 31-1005-019 | 31-2005-019 | | 28 | 22 | 160 | 36 | 41 |
| 31-1005-020 | 31-2005-020 | | 35 | 22 | 160 | 36 | 50 |
| 31-1005-021 | 31-2005-021 | | 35 | 28 | 160 | 41 | 50 |
| 31-1005-022 | 31-2005-022 | | S | 08 | 06 | 630 | 17 |
| 31-1005-023 | 31-2005-023 | 10 | | 06 | 630 | 17 | 22 |
| 31-1005-024 | 31-2005-024 | 10 | | 08 | 630 | 19 | 22 |
| 31-1005-025 | 31-2005-025 | 12 | | 06 | 630 | 17 | 24 |
| 31-1005-026 | 31-2005-026 | 12 | | 08 | 630 | 19 | 24 |
| 31-1005-027 | 31-2005-027 | 12 | | 10 | 630 | 22 | 24 |
| 31-1005-028 | 31-2005-028 | 14 | | 10 | 630 | 22 | 27 |
| 31-1005-029 | 31-2005-029 | 14 | | 12 | 630 | 24 | 27 |
| 31-1005-030 | 31-2005-030 | 16 | | 10 | 400 | 24 | 30 |
| 31-1005-031 | 31-2005-031 | 16 | | 12 | 400 | 27 | 30 |
| 31-1005-032 | 31-2005-032 | 20 | | 10 | 400 | 22 | 36 |
| 31-1005-033 | 31-2005-033 | 20 | 12 | 400 | 24 | 36 | |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



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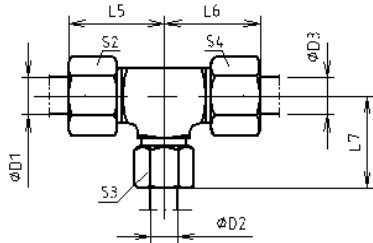
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| | | Straight Reducer | | | | | |
|----------------|-----------------|-------------------------|---------|---------|----------|----|----|
| | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | D1 (mm) | D2 (mm) | PN (BAR) | S2 | S3 |
| 31-1005-034 | 31-2005-034 | S | 20 | 16 | 400 | 30 | 36 |
| 31-1005-035 | 31-2005-035 | | 25 | 16 | 400 | 30 | 46 |
| 31-1005-036 | 31-2005-036 | | 25 | 20 | 400 | 36 | 46 |
| 31-1005-037 | 31-2005-037 | | 30 | 20 | 400 | 36 | 50 |
| 31-1005-038 | 31-2005-038 | | 30 | 25 | 400 | 46 | 50 |
| 31-1005-039 | 31-2005-039 | | 38 | 30 | 315 | 50 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

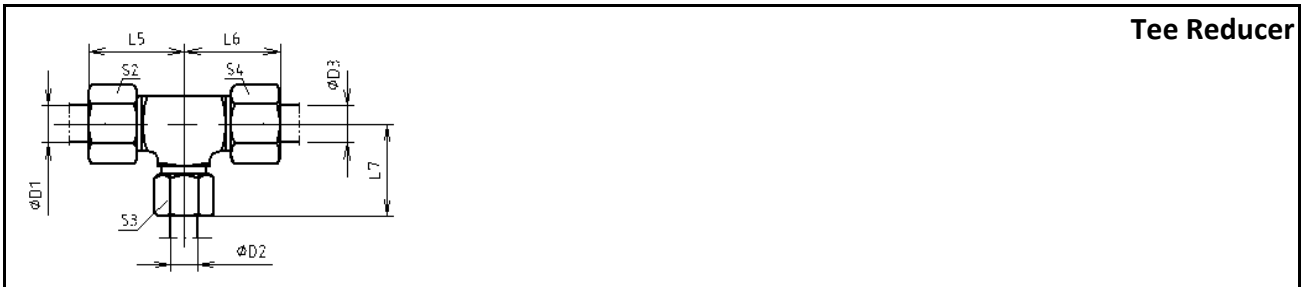


Tee Reducer



| Order No. (CS) | Order No. (304) | Series | D1 (mm) | D2 (mm) | D3 (mm) | PN (BAR) | S2 | S3 | S4 |
|----------------|-----------------|--------|---------|---------|---------|----------|----|----|----|
| 31-1006-001 | 31-2006-001 | LL | 04 | 08 | 04 | 100 | 14 | 10 | 12 |
| 31-1006-002 | 31-2006-002 | | 06 | 04 | 06 | 100 | 10 | 12 | 11 |
| 31-1006-003 | 31-2006-003 | | 06 | 08 | 06 | 315 | 17 | 14 | 14 |
| 31-1006-004 | 31-2006-004 | | 08 | 06 | 08 | 315 | 14 | 17 | 14 |
| 31-1006-005 | 31-2006-005 | | 06 | 10 | 06 | 315 | 19 | 14 | 14 |
| 31-1006-006 | 31-2006-006 | | 08 | 10 | 08 | 315 | 19 | 17 | 14 |
| 31-1006-007 | 31-2006-007 | | 10 | 06 | 10 | 315 | 14 | 19 | 14 |
| 31-1006-008 | 31-2006-008 | | 10 | 08 | 10 | 315 | 17 | 19 | 14 |
| 31-1006-009 | 31-2006-009 | | 10 | 10 | 06 | 315 | 19 | 14 | 14 |
| 31-1006-010 | 31-2006-010 | | 08 | 12 | 08 | 315 | 22 | 17 | 17 |
| 31-1006-011 | 31-2006-011 | L | 12 | 06 | 12 | 315 | 14 | 22 | 17 |
| 31-1006-012 | 31-2006-012 | | 12 | 08 | 08 | 315 | 17 | 17 | 17 |
| 31-1006-013 | 31-2006-013 | | 12 | 08 | 12 | 315 | 17 | 22 | 17 |
| 31-1006-014 | 31-2006-014 | | 12 | 10 | 10 | 315 | 19 | 19 | 17 |
| 31-1006-015 | 31-2006-015 | | 12 | 10 | 12 | 315 | 19 | 22 | 17 |
| 31-1006-016 | 31-2006-016 | | 12 | 12 | 10 | 315 | 22 | 19 | 17 |
| 31-1006-017 | 31-2006-017 | | 10 | 15 | 10 | 315 | 27 | 19 | 19 |
| 31-1006-018 | 31-2006-018 | | 12 | 15 | 12 | 315 | 27 | 22 | 19 |
| 31-1006-019 | 31-2006-019 | | 15 | 06 | 15 | 315 | 14 | 27 | 19 |
| 31-1006-020 | 31-2006-020 | | 15 | 10 | 15 | 315 | 19 | 27 | 19 |
| 31-1006-021 | 31-2006-021 | | 15 | 12 | 12 | 315 | 22 | 22 | 19 |
| 31-1006-022 | 31-2006-022 | | 15 | 12 | 15 | 315 | 22 | 27 | 19 |
| 31-1006-023 | 31-2006-023 | | 15 | 15 | 12 | 315 | 27 | 22 | 19 |
| 31-1006-024 | 31-2006-024 | | 12 | 18 | 12 | 315 | 32 | 22 | 24 |
| 31-1006-025 | 31-2006-025 | | 18 | 10 | 10 | 315 | 19 | 19 | 24 |
| 31-1006-026 | 31-2006-026 | | 18 | 10 | 18 | 315 | 19 | 32 | 24 |
| 31-1006-027 | 31-2006-027 | | 18 | 12 | 18 | 315 | 22 | 32 | 24 |
| 31-1006-028 | 31-2006-028 | | 18 | 15 | 18 | 315 | 27 | 32 | 24 |
| 31-1006-029 | 31-2006-029 | | 18 | 18 | 10 | 315 | 32 | 19 | 24 |
| 31-1006-030 | 31-2006-030 | | 22 | 10 | 22 | 160 | 19 | 36 | 27 |
| 31-1006-031 | 31-2006-031 | | 22 | 12 | 22 | 160 | 22 | 36 | 27 |
| 31-1006-032 | 31-2006-032 | | 22 | 15 | 15 | 160 | 27 | 27 | 27 |
| 31-1006-033 | 31-2006-033 | | 22 | 15 | 22 | 160 | 27 | 36 | 27 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



Tee Reducer

| Order No. (CS) | Order No. (304) | Series | D1 (mm) | D2 (mm) | D3 (mm) | PN (BAR) | S2 | S3 | S4 |
|----------------|-----------------|--------|---------|---------|---------|----------|-----|----|----|
| 31-1006-034 | 31-2006-034 | L | 22 | 18 | 18 | 160 | 32 | 32 | 27 |
| 31-1006-035 | 31-2006-035 | | 22 | 18 | 22 | 160 | 32 | 36 | 27 |
| 31-1006-036 | 31-2006-036 | | 22 | 22 | 18 | 160 | 36 | 32 | 27 |
| 31-1006-037 | 31-2006-037 | | 28 | 10 | 28 | 160 | 19 | 41 | 36 |
| 31-1006-038 | 31-2006-038 | | 28 | 12 | 28 | 160 | 22 | 41 | 36 |
| 31-1006-039 | 31-2006-039 | | 28 | 15 | 28 | 160 | 27 | 41 | 36 |
| 31-1006-040 | 31-2006-040 | | 28 | 18 | 28 | 160 | 32 | 41 | 36 |
| 31-1006-041 | 31-2006-041 | | 28 | 22 | 22 | 160 | 36 | 36 | 36 |
| 31-1006-042 | 31-2006-042 | | 28 | 22 | 28 | 160 | 36 | 41 | 36 |
| 31-1006-043 | 31-2006-043 | | S | 10 | 06 | 10 | 630 | 17 | 22 |
| 31-1006-044 | 31-2006-044 | 12 | | 08 | 08 | 630 | 19 | 19 | 17 |
| 31-1006-045 | 31-2006-045 | 12 | | 08 | 12 | 630 | 19 | 24 | 17 |
| 31-1006-046 | 31-2006-046 | 12 | | 10 | 12 | 630 | 22 | 24 | 17 |
| 31-1006-047 | 31-2006-047 | 12 | | 16 | 12 | 400 | 30 | 24 | 24 |
| 31-1006-048 | 31-2006-048 | 16 | | 06 | 16 | 400 | 17 | 30 | 24 |
| 31-1006-049 | 31-2006-049 | 16 | | 08 | 16 | 400 | 19 | 30 | 24 |
| 31-1006-050 | 31-2006-050 | 16 | | 10 | 16 | 400 | 22 | 30 | 24 |
| 31-1006-051 | 31-2006-051 | 16 | | 12 | 16 | 400 | 24 | 30 | 24 |
| 31-1006-052 | 31-2006-052 | 16 | | 20 | 16 | 400 | 36 | 30 | 27 |
| 31-1006-053 | 31-2006-053 | 20 | | 10 | 20 | 400 | 22 | 36 | 27 |
| 31-1006-054 | 31-2006-054 | 20 | | 12 | 20 | 400 | 24 | 36 | 27 |
| 31-1006-055 | 31-2006-055 | 20 | | 16 | 20 | 400 | 30 | 36 | 27 |
| 31-1006-056 | 31-2006-056 | 20 | | 25 | 20 | 400 | 46 | 36 | 36 |
| 31-1006-057 | 31-2006-057 | 25 | | 16 | 25 | 400 | 30 | 46 | 36 |
| 31-1006-058 | 31-2006-058 | 25 | | 20 | 25 | 400 | 36 | 46 | 36 |
| 31-1006-059 | 31-2006-059 | 25 | 30 | 25 | 400 | 50 | 46 | 41 | |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



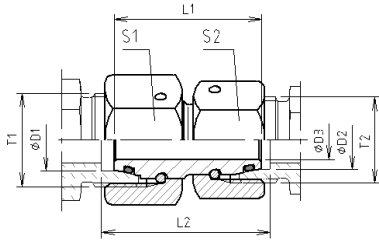
| | | Thread Reducer ED sealing | | | | | | | |
|----------------|-----------------|--------------------------------------|--------|--------|----------|---------|---------|---------|----|
| | | | | | | | | | |
| Order No. (CS) | Order No. (304) | Abb. | T1 | T2 | PN (BAR) | L1 (mm) | L2 (mm) | D2 (mm) | S1 |
| 31-1007-001 | 31-2007-001 | B | G1/8 | G1/4 | 630 | 31 | 8 | 14 | 19 |
| 31-1007-002 | 31-2007-002 | B | G1/8 | G3/8 | 630 | 32 | 8 | 14 | 24 |
| 31-1007-003 | 31-2007-003 | B | G1/4 | G1/8 | 630 | 29 | 12 | 19 | 19 |
| 31-1007-004 | 31-2007-004 | B | G1/4 | G3/8 | 630 | 36 | 12 | 19 | 24 |
| 31-1007-005 | 31-2007-005 | B | G1/4 | G1/2 | 630 | 40 | 12 | 19 | 30 |
| 31-1007-006 | 31-2007-006 | B | G1/4 | G3/4 | 630 | 43 | 12 | 19 | 36 |
| 31-1007-007 | 31-2007-007 | A | G3/8 | G1/8 | 630 | 22.5 | 12 | 22 | 22 |
| 31-1007-008 | 31-2007-008 | B | G3/8 | G1/4 | 630 | 36 | 12 | 22 | 22 |
| 31-1007-009 | 31-2007-009 | B | G3/8 | G1/2 | 630 | 41 | 12 | 22 | 30 |
| 31-1007-010 | 31-2007-010 | B | G3/8 | G3/4 | 400 | 44 | 12 | 22 | 36 |
| 31-1007-011 | 31-2007-011 | A | G1/2 | G1/8 | 630 | 24 | 14 | 27 | 27 |
| 31-1007-012 | 31-2007-012 | A | G1/2 | G1/4 | 630 | 24 | 14 | 27 | 27 |
| 31-1007-013 | 31-2007-013 | B | G1/2 | G3/8 | 630 | 37 | 14 | 27 | 27 |
| 31-1007-014 | 31-2007-014 | B | G1/2 | G3/4 | 400 | 46 | 14 | 27 | 36 |
| 31-1007-015 | 31-2007-015 | B | G1/2 | G1 | 400 | 49 | 14 | 27 | 41 |
| 31-1007-016 | 31-2007-016 | B | G1/2 | G1-1/4 | 400 | 53 | 14 | 27 | 55 |
| 31-1007-017 | 31-2007-017 | A | G3/4 | G1/4 | 400 | 26 | 16 | 32 | 32 |
| 31-1007-018 | 31-2007-018 | A | G3/4 | G3/8 | 400 | 26 | 16 | 32 | 32 |
| 31-1007-019 | 31-2007-019 | B | G3/4 | G1/2 | 400 | 43 | 16 | 32 | 32 |
| 31-1007-020 | 31-2007-020 | B | G3/4 | G1 | 400 | 51 | 16 | 32 | 41 |
| 31-1007-021 | 31-2007-021 | B | G3/4 | G1-1/4 | 400 | 55 | 16 | 32 | 55 |
| 31-1007-022 | 31-2007-022 | B | G3/4 | G1-1/2 | 315 | 57 | 16 | 32 | 60 |
| 31-1007-023 | 31-2007-023 | A | G1 | G1/4 | 400 | 29 | 18 | 40 | 41 |
| 31-1007-024 | 31-2007-024 | A | G1 | G3/8 | 400 | 29 | 18 | 40 | 41 |
| 31-1007-025 | 31-2007-025 | A | G1 | G1/2 | 400 | 29 | 18 | 40 | 41 |
| 31-1007-026 | 31-2007-026 | B | G1 | G3/4 | 400 | 49 | 18 | 40 | 41 |
| 31-1007-027 | 31-2007-027 | B | G1 | G1-1/4 | 400 | 57 | 18 | 40 | 55 |
| 31-1007-028 | 31-2007-028 | B | G1 | G1-1/2 | 315 | 59 | 18 | 40 | 60 |
| 31-1007-029 | 31-2007-029 | A | G1-1/4 | G1/2 | 400 | 32 | 20 | 50 | 50 |
| 31-1007-030 | 31-2007-030 | A | G1-1/4 | G3/4 | 400 | 32 | 20 | 50 | 50 |
| 31-1007-031 | 31-2007-031 | B | G1-1/4 | G1 | 400 | 5 | 20 | 50 | 50 |
| 31-1007-032 | 31-2007-032 | B | G1-1/4 | G1-1/2 | 315 | 60 | 20 | 50 | 60 |
| 31-1007-033 | 31-2007-033 | A | G1-1/2 | G1/2 | 315 | 36 | 22 | 55 | 55 |
| 31-1007-034 | 31-2007-034 | A | G1-1/2 | G3/4 | 315 | 36 | 22 | 55 | 55 |
| 31-1007-035 | 31-2007-035 | A | G1-1/2 | G1 | 315 | 36 | 22 | 55 | 55 |
| 31-1007-036 | 31-2007-036 | B | G1-1/2 | G1-1/4 | 315 | 58 | 22 | 55 | 55 |
| 31-1007-037 | 31-2007-037 | B | G2 | G1-1/2 | 250 | 65 | 24 | 75 | 75 |



| | | Thread Reducer | | | | | | | |
|----------------|-----------------|-----------------------|--------|--------|----------|---------|---------|---------|----|
| | | Abb. A | | Abb. B | | | | | |
| Order No. (CS) | Order No. (304) | Abb. | T1 | T2 | PN (BAR) | L1 (mm) | L2 (mm) | D2 (mm) | S1 |
| 31-1008-001 | 31-2008-001 | B | G1/8 | G1/4 | 630 | 31 | 8 | 14 | 19 |
| 31-1008-002 | 31-2008-002 | B | G1/8 | G3/8 | 630 | 32 | 8 | 14 | 24 |
| 31-1008-003 | 31-2008-003 | B | G1/4 | G1/8 | 630 | 28 | 12 | 18 | 19 |
| 31-1008-004 | 31-2008-004 | B | G1/4 | G3/8 | 630 | 36 | 12 | 18 | 24 |
| 31-1008-005 | 31-2008-005 | B | G1/4 | G1/2 | 630 | 40 | 12 | 18 | 30 |
| 31-1008-006 | 31-2008-006 | B | G1/4 | G3/4 | 400 | 43 | 12 | 18 | 36 |
| 31-1008-007 | 31-2008-007 | A | G3/8 | G1/8 | 630 | 22.5 | 12 | 22 | 22 |
| 31-1008-008 | 31-2008-008 | B | G3/8 | G1/4 | 630 | 36 | 12 | 22 | 22 |
| 31-1008-009 | 31-2008-009 | B | G3/8 | G1/2 | 630 | 41 | 12 | 22 | 30 |
| 31-1008-010 | 31-2008-010 | B | G3/8 | G3/4 | 400 | 44 | 12 | 22 | 36 |
| 31-1008-011 | 31-2008-011 | A | G1/2 | G1/8 | 630 | 24 | 14 | 26 | 27 |
| 31-1008-012 | 31-2008-012 | A | G1/2 | G1/4 | 400 | 24 | 14 | 26 | 27 |
| 31-1008-013 | 31-2008-013 | B | G1/2 | G3/8 | 400 | 36 | 14 | 26 | 27 |
| 31-1008-014 | 31-2008-014 | B | G1/2 | G3/4 | 400 | 46 | 14 | 26 | 36 |
| 31-1008-015 | 31-2008-015 | B | G1/2 | G1 | 400 | 49 | 14 | 26 | 41 |
| 31-1008-016 | 31-2008-016 | B | G1/2 | G1-1/4 | 250 | 53 | 14 | 26 | 55 |
| 31-1008-017 | 31-2008-017 | A | G3/4 | G1/4 | 400 | 26 | 16 | 32 | 32 |
| 31-1008-018 | 31-2008-018 | A | G3/4 | G3/8 | 400 | 26 | 16 | 32 | 32 |
| 31-1008-019 | 31-2008-019 | B | G3/4 | G1/2 | 400 | 41 | 16 | 32 | 32 |
| 31-1008-020 | 31-2008-020 | B | G3/4 | G1 | 400 | 51 | 16 | 32 | 41 |
| 31-1008-021 | 31-2008-021 | B | G3/4 | G1-1/4 | 250 | 55 | 16 | 32 | 55 |
| 31-1008-022 | 31-2008-022 | B | G3/4 | G1-1/2 | 250 | 57 | 16 | 32 | 60 |
| 31-1008-023 | 31-2008-023 | A | G1 | G1/4 | 400 | 29 | 18 | 39 | 41 |
| 31-1008-024 | 31-2008-024 | A | G1 | G3/8 | 400 | 29 | 18 | 39 | 41 |
| 31-1008-025 | 31-2008-025 | A | G1 | G1/2 | 400 | 29 | 18 | 39 | 41 |
| 31-1008-026 | 31-2008-026 | B | G1 | G3/4 | 400 | 47 | 18 | 39 | 41 |
| 31-1008-027 | 31-2008-027 | B | G1 | G1-1/4 | 250 | 57 | 18 | 39 | 55 |
| 31-1008-028 | 31-2008-028 | B | G1 | G1-1/2 | 250 | 59 | 18 | 39 | 60 |
| 31-1008-029 | 31-2008-029 | A | G1-1/4 | G1/2 | 250 | 32 | 20 | 49 | 50 |
| 31-1008-030 | 31-2008-030 | A | G1-1/4 | G3/4 | 250 | 32 | 20 | 49 | 50 |
| 31-1008-031 | 31-2008-031 | B | G1-1/4 | G1 | 250 | 52 | 20 | 49 | 50 |
| 31-1008-032 | 31-2008-032 | B | G1-1/4 | G1-1/2 | 250 | 60 | 20 | 49 | 60 |
| 31-1008-033 | 31-2008-033 | A | G1-1/2 | G1/2 | 250 | 36 | 22 | 55 | 55 |
| 31-1008-034 | 31-2008-034 | A | G1-1/2 | G3/4 | 250 | 36 | 22 | 55 | 55 |
| 31-1008-035 | 31-2008-035 | A | G1-1/2 | G1 | 250 | 36 | 22 | 55 | 55 |
| 31-1008-036 | 31-2008-036 | B | G1-1/2 | G1-1/4 | 250 | 58 | 22 | 55 | 55 |
| 31-1008-037 | 31-2008-037 | B | G2 | G1-1/2 | 250 | 62 | 24 | 68 | 70 |



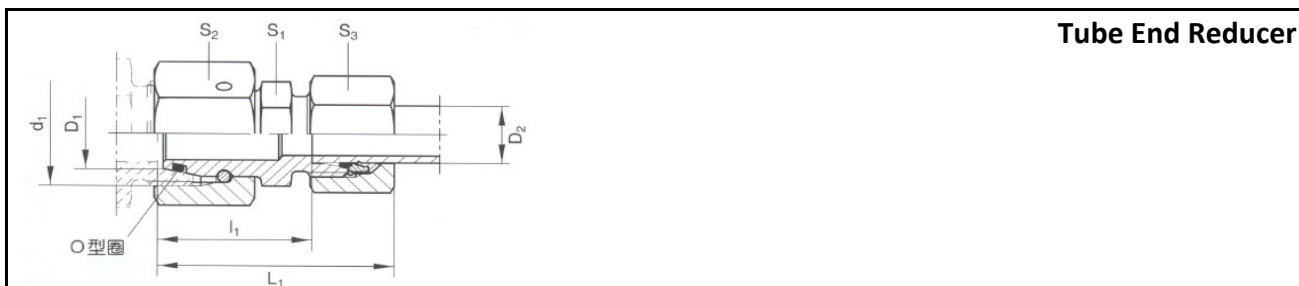
Swivel Reducer



| Order No. (CS) | Order No. (304) | Series | T1 | T2 | PN (BAR) | D1 (mm) | D2 (mm) | S1 | S2 |
|----------------|-----------------|--------|---------|---------|----------|---------|---------|----|----|
| 31-1009-001 | 31-2009-001 | L/S | M14x1.5 | M12x1.5 | 315 | 06 | 06 | 17 | 14 |
| 31-1009-002 | 31-2009-002 | L | M14x1.5 | M12x1.5 | 315 | 08 | 06 | 17 | 14 |
| 31-1009-003 | 31-2009-003 | L/S | M16x1.5 | M14x1.5 | 315 | 08 | 08 | 19 | 17 |
| 31-1009-004 | 31-2009-004 | L | M16x1.5 | M12x1.5 | 315 | 10 | 06 | 19 | 14 |
| 31-1009-005 | 31-2009-005 | L | M16x1.5 | M14x1.5 | 315 | 10 | 08 | 19 | 17 |
| 31-1009-006 | 31-2009-006 | L/S | M18x1.5 | M16x1.5 | 315 | 10 | 10 | 22 | 19 |
| 31-1009-007 | 31-2009-007 | L | M18x1.5 | M12x1.5 | 315 | 12 | 06 | 22 | 14 |
| 31-1009-008 | 31-2009-008 | L | M18x1.5 | M14x1.5 | 315 | 12 | 08 | 22 | 17 |
| 31-1009-009 | 31-2009-009 | L | M18x1.5 | M16x1.5 | 315 | 12 | 10 | 22 | 19 |
| 31-1009-010 | 31-2009-010 | L/S | M20x1.5 | M18x1.5 | 315 | 12 | 12 | 24 | 22 |
| 31-1009-011 | 31-2009-011 | L | M22x1.5 | M14x1.5 | 315 | 15 | 08 | 27 | 17 |
| 31-1009-012 | 31-2009-012 | L | M22x1.5 | M16x1.5 | 315 | 15 | 10 | 27 | 19 |
| 31-1009-013 | 31-2009-013 | L | M22x1.5 | M18x1.5 | 315 | 15 | 12 | 27 | 22 |
| 31-1009-014 | 31-2009-014 | L | M26x1.5 | M16x1.5 | 315 | 18 | 10 | 32 | 19 |
| 31-1009-015 | 31-2009-015 | L | M26x1.5 | M18x1.5 | 315 | 18 | 12 | 32 | 22 |
| 31-1009-016 | 31-2009-016 | L | M26x1.5 | M22x1.5 | 315 | 18 | 15 | 32 | 27 |
| 31-1009-017 | 31-2009-017 | L/S | M26x1.5 | M24x1.5 | 315 | 18 | 16 | 32 | 30 |
| 31-1009-018 | 31-2009-018 | L | M30x2 | M18x1.5 | 160 | 22 | 12 | 36 | 22 |
| 31-1009-019 | 31-2009-019 | L | M30x2 | M22x1.5 | 160 | 22 | 15 | 36 | 27 |
| 31-1009-020 | 31-2009-020 | L | M30x2 | M26x1.5 | 160 | 22 | 18 | 36 | 32 |
| 31-1009-021 | 31-2009-021 | L/S | M30x2 | M30x2 | 160 | 22 | 20 | 36 | 36 |
| 31-1009-022 | 31-2009-022 | L | M36x2 | M22x1.5 | 160 | 28 | 15 | 41 | 27 |
| 31-1009-023 | 31-2009-023 | L | M36x2 | M26x1.5 | 160 | 28 | 18 | 41 | 32 |
| 31-1009-024 | 31-2009-024 | L | M36x2 | M30x2 | 160 | 28 | 22 | 41 | 36 |
| 31-1009-025 | 31-2009-025 | L/S | M36x2 | M36x2 | 160 | 28 | 25 | 41 | 46 |
| 31-1009-026 | 31-2009-026 | L | M45x2 | M26x1.5 | 160 | 35 | 18 | 50 | 32 |
| 31-1009-027 | 31-2009-027 | L | M45x2 | M30x2 | 160 | 35 | 22 | 50 | 36 |
| 31-1009-028 | 31-2009-028 | L | M45x2 | M36x2 | 160 | 35 | 28 | 50 | 41 |
| 31-1009-029 | 31-2009-029 | L/S | M45x2 | M42x2 | 160 | 35 | 30 | 50 | 50 |
| 31-1009-030 | 31-2009-030 | L | M52x2 | M30x2 | 160 | 42 | 22 | 60 | 36 |
| 31-1009-031 | 31-2009-031 | L | M52x2 | M36x2 | 160 | 42 | 28 | 60 | 41 |
| 31-1009-032 | 31-2009-032 | L | M52x2 | M45x2 | 160 | 42 | 35 | 60 | 50 |
| 31-1009-033 | 31-2009-033 | L/S | M52x2 | M52x2 | 160 | 42 | 38 | 60 | 60 |
| 31-1009-034 | 31-2009-034 | S | M16x1.5 | M14x1.5 | 630 | 08 | 06 | 19 | 17 |



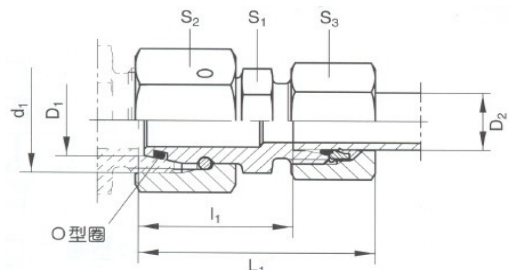
| Swivel Reducer | | | | | | | | | |
|-----------------------|-----------------|--------|---------|---------|----------|---------|---------|----|----|
| | | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T1 | T2 | PN (BAR) | D1 (mm) | D2 (mm) | S1 | S2 |
| 31-1009-035 | 31-2009-035 | S | M18x1.5 | M14x1.5 | 630 | 10 | 06 | 22 | 17 |
| 31-1009-036 | 31-2009-036 | S | M18x1.5 | M16x1.5 | 630 | 10 | 08 | 22 | 19 |
| 31-1009-037 | 31-2009-037 | S | M20x1.5 | M14x1.5 | 630 | 12 | 06 | 24 | 17 |
| 31-1009-038 | 31-2009-038 | S | M20x1.5 | M16x1.5 | 630 | 12 | 08 | 24 | 19 |
| 31-1009-039 | 31-2009-039 | S | M20x1.5 | M18x1.5 | 630 | 12 | 10 | 24 | 22 |
| 31-1009-040 | 31-2009-040 | S | M24x1.5 | M18x1.5 | 400 | 16 | 10 | 30 | 22 |
| 31-1009-041 | 31-2009-041 | S | M24x1.5 | M20x1.5 | 400 | 16 | 12 | 30 | 24 |
| 31-1009-042 | 31-2009-042 | S/L | M24x1.5 | M22x1.5 | 315 | 16 | 15 | 30 | 27 |
| 31-1009-043 | 31-2009-043 | S | M30x2 | M20x1.5 | 400 | 20 | 12 | 36 | 24 |
| 31-1009-044 | 31-2009-044 | S | M30x2 | M24x1.5 | 400 | 20 | 16 | 36 | 30 |
| 31-1009-045 | 31-2009-045 | S/L | M30x2 | M26x1.5 | 315 | 20 | 18 | 36 | 32 |
| 31-1009-046 | 31-2009-046 | S | M36x2 | M24x1.5 | 400 | 25 | 16 | 46 | 30 |
| 31-1009-047 | 31-2009-047 | S | M36x2 | M30x2 | 400 | 25 | 20 | 46 | 36 |
| 31-1009-048 | 31-2009-048 | S/L | M36x2 | M30x2 | 160 | 25 | 22 | 46 | 36 |
| 31-1009-049 | 31-2009-049 | S | M42x2 | M24x1.5 | 400 | 30 | 16 | 50 | 30 |
| 31-1009-050 | 31-2009-050 | S | M42x2 | M30x2 | 400 | 30 | 20 | 50 | 36 |
| 31-1009-051 | 31-2009-051 | S | M42x2 | M36x2 | 400 | 30 | 25 | 50 | 46 |
| 31-1009-052 | 31-2009-052 | S/L | M42x2 | M36x2 | 160 | 30 | 28 | 50 | 41 |
| 31-1009-053 | 31-2009-053 | S | M52x2 | M30x2 | 315 | 38 | 20 | 60 | 36 |
| 31-1009-054 | 31-2009-054 | S | M52x2 | M36x2 | 315 | 38 | 25 | 60 | 46 |
| 31-1009-055 | 31-2009-055 | S | M52x2 | M42x2 | 315 | 38 | 30 | 60 | 50 |
| 31-1009-056 | 31-2009-056 | S/L | M52x2 | M45x2 | 160 | 38 | 35 | 60 | 50 |



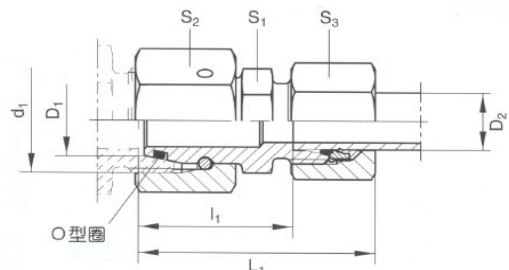
Tube End Reducer

| Order No. (CS) | Order No. (304) | Series | d1 | PN (BAR) | D1 (mm) | D2 (mm) | S1 | S3 | S3 |
|----------------|-----------------|--------|---------|----------|---------|---------|----|----|----|
| 31-1010-001 | 31-2010-001 | L/LL | M12×1.5 | 100 | 06 | 04 | 9 | 14 | 10 |
| 31-1010-002 | 31-2010-002 | L | M14×1.5 | 315 | 08 | 06 | 12 | 17 | 14 |
| 31-1010-003 | 31-2010-003 | | M16×1.5 | 315 | 10 | 06 | 14 | 19 | 14 |
| 31-1010-004 | 31-2010-004 | | M16×1.5 | 315 | 10 | 08 | 14 | 19 | 17 |
| 31-1010-005 | 31-2010-005 | | M18×1.5 | 315 | 12 | 06 | 17 | 22 | 14 |
| 31-1010-006 | 31-2010-006 | | M18×1.5 | 315 | 12 | 08 | 17 | 22 | 17 |
| 31-1010-007 | 31-2010-007 | | M18×1.5 | 315 | 12 | 10 | 17 | 22 | 19 |
| 31-1010-008 | 31-2010-008 | | M22×1.5 | 315 | 15 | 06 | 19 | 27 | 14 |
| 31-1010-009 | 31-2010-009 | | M22×1.5 | 315 | 15 | 08 | 19 | 27 | 17 |
| 31-1010-010 | 31-2010-010 | | M22×1.5 | 315 | 15 | 10 | 19 | 27 | 19 |
| 31-1010-011 | 31-2010-011 | | M22×1.5 | 315 | 15 | 12 | 19 | 27 | 22 |
| 31-1010-012 | 31-2010-012 | | M26×1.5 | 315 | 18 | 06 | 24 | 32 | 14 |
| 31-1010-013 | 31-2010-013 | | M26×1.5 | 315 | 18 | 08 | 24 | 32 | 17 |
| 31-1010-014 | 31-2010-014 | | M26×1.5 | 315 | 18 | 10 | 24 | 32 | 19 |
| 31-1010-015 | 31-2010-015 | | M26×1.5 | 315 | 18 | 12 | 24 | 32 | 22 |
| 31-1010-016 | 31-2010-016 | | M26×1.5 | 315 | 18 | 15 | 24 | 32 | 27 |
| 31-1010-017 | 31-2010-017 | | L/S | M26×1.5 | 315 | 18 | 16 | 27 | 32 |
| 31-1010-018 | 31-2010-018 | L | M30×2 | 160 | 22 | 06 | 27 | 36 | 14 |
| 31-1010-019 | 31-2010-019 | | M30×2 | 160 | 22 | 08 | 27 | 36 | 17 |
| 31-1010-020 | 31-2010-020 | | M30×2 | 160 | 22 | 10 | 27 | 36 | 19 |
| 31-1010-021 | 31-2010-021 | | M30×2 | 160 | 22 | 12 | 27 | 36 | 22 |
| 31-1010-022 | 31-2010-022 | | M30×2 | 160 | 22 | 15 | 27 | 36 | 27 |
| 31-1010-023 | 31-2010-023 | L/S | M30×2 | 160 | 22 | 16 | 27 | 36 | 30 |
| 31-1010-024 | 31-2010-024 | L | M30×2 | 160 | 22 | 18 | 27 | 36 | 32 |
| 31-1010-025 | 31-2010-025 | L/S | M30×2 | 160 | 22 | 20 | 32 | 36 | 36 |
| 31-1010-026 | 31-2010-026 | L | M36×2 | 160 | 28 | 06 | 32 | 41 | 14 |
| 31-1010-027 | 31-2010-027 | | M36×2 | 160 | 28 | 08 | 32 | 41 | 17 |
| 31-1010-028 | 31-2010-028 | | M36×2 | 160 | 28 | 10 | 32 | 41 | 19 |
| 31-1010-029 | 31-2010-029 | | M36×2 | 160 | 28 | 12 | 32 | 41 | 22 |
| 31-1010-030 | 31-2010-030 | | M36×2 | 160 | 28 | 15 | 32 | 41 | 27 |
| 31-1010-031 | 31-2010-031 | L/S | M36×2 | 160 | 28 | 16 | 32 | 41 | 30 |
| 31-1010-032 | 31-2010-032 | L | M36×2 | 160 | 28 | 18 | 32 | 41 | 32 |
| 31-1010-033 | 31-2010-033 | | M36×2 | 160 | 28 | 22 | 32 | 41 | 36 |

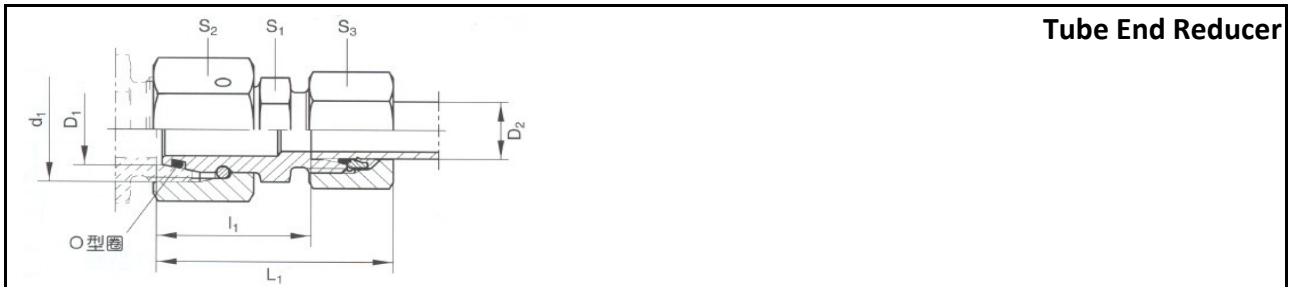
If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| Tube End Reducer | | | | | | | | | |
|---|-----------------|---------|---------|----------|---------|---------|----|----|----|
|  | | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | d1 | PN (BAR) | D1 (mm) | D2 (mm) | S1 | S2 | S3 |
| 31-1010-034 | 31-2010-034 | L/S | M36×2 | 160 | 28 | 25 | 41 | 41 | 46 |
| 31-1010-035 | 31-2010-035 | L | M45×2 | 160 | 35 | 06 | 41 | 50 | 14 |
| 31-1010-036 | 31-2010-036 | | M45×2 | 160 | 35 | 08 | 41 | 50 | 17 |
| 31-1010-037 | 31-2010-037 | | M45×2 | 160 | 35 | 10 | 41 | 50 | 19 |
| 31-1010-038 | 31-2010-038 | | M45×2 | 160 | 35 | 12 | 41 | 50 | 22 |
| 31-1010-039 | 31-2010-039 | | M45×2 | 160 | 35 | 15 | 41 | 50 | 27 |
| 31-1010-040 | 31-2010-040 | | M45×2 | 160 | 35 | 18 | 41 | 50 | 32 |
| 31-1010-041 | 31-2010-041 | | M45×2 | 160 | 35 | 22 | 41 | 50 | 36 |
| 31-1010-042 | 31-2010-042 | | L/S | M45×2 | 160 | 35 | 25 | 41 | 50 |
| 31-1010-043 | 31-2010-043 | L | M45×2 | 160 | 35 | 28 | 41 | 50 | 41 |
| 31-1010-044 | 31-2010-044 | L/S | M45×2 | 160 | 35 | 30 | 46 | 50 | 50 |
| 31-1010-045 | 31-2010-045 | L | M52×2 | 160 | 42 | 10 | 50 | 60 | 19 |
| 31-1010-046 | 31-2010-046 | | M52×2 | 160 | 42 | 12 | 50 | 60 | 22 |
| 31-1010-047 | 31-2010-047 | | M52×2 | 160 | 42 | 15 | 50 | 60 | 27 |
| 31-1010-048 | 31-2010-048 | | M52×2 | 160 | 42 | 18 | 50 | 60 | 32 |
| 31-1010-049 | 31-2010-049 | | M52×2 | 160 | 42 | 22 | 50 | 60 | 36 |
| 31-1010-050 | 31-2010-050 | | M52×2 | 160 | 42 | 28 | 50 | 60 | 41 |
| 31-1010-051 | 31-2010-051 | L/S | M52×2 | 160 | 42 | 30 | 50 | 60 | 50 |
| 31-1010-052 | 31-2010-052 | L | M52×2 | 160 | 42 | 35 | 50 | 60 | 50 |
| 31-1010-053 | 31-2010-053 | L/S | M52×2 | 160 | 42 | 38 | 55 | 60 | 60 |
| 31-1010-054 | 31-2010-054 | S | M16×1.5 | 630 | 08 | 06 | 14 | 19 | 17 |
| 31-1010-055 | 31-2010-055 | | M18×1.5 | 630 | 10 | 06 | 17 | 22 | 17 |
| 31-1010-056 | 31-2010-056 | | M18×1.5 | 630 | 10 | 08 | 17 | 22 | 19 |
| 31-1010-057 | 31-2010-057 | | M20×1.5 | 630 | 12 | 06 | 17 | 24 | 17 |
| 31-1010-058 | 31-2010-058 | | M20×1.5 | 630 | 12 | 08 | 17 | 24 | 19 |
| 31-1010-059 | 31-2010-059 | | M20×1.5 | 630 | 12 | 10 | 19 | 24 | 22 |
| 31-1010-060 | 31-2010-060 | | M22×1.5 | 630 | 14 | 06 | 19 | 27 | 17 |
| 31-1010-061 | 31-2010-061 | | M22×1.5 | 630 | 14 | 08 | 19 | 27 | 19 |
| 31-1010-062 | 31-2010-062 | | M22×1.5 | 630 | 14 | 10 | 19 | 27 | 22 |
| 31-1010-063 | 31-2010-063 | | M22×1.5 | 630 | 14 | 12 | 22 | 27 | 24 |
| 31-1010-064 | 31-2010-064 | | M24×1.5 | 400 | 16 | 06 | 22 | 30 | 17 |
| 31-1010-065 | 31-2010-065 | | M24×1.5 | 400 | 16 | 08 | 22 | 30 | 19 |
| 31-1010-066 | 31-2010-066 | M24×1.5 | 400 | 16 | 10 | 22 | 30 | 22 | |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

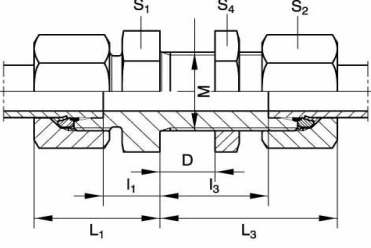
|  | | | | | | | | | |
|---|-----------------|--------|---------|----------|---------|---------|----|----|----|
| Order No. (CS) | Order No. (304) | Series | d1 | PN (BAR) | D1 (mm) | D2 (mm) | S1 | S2 | S3 |
| 31-1010-067 | 31-2010-067 | S | M24×1.5 | 400 | 16 | 12 | 22 | 30 | 24 |
| 31-1010-068 | 31-2010-068 | S/L | M24×1.5 | 315 | 16 | 15 | 24 | 30 | 27 |
| 31-1010-069 | 31-2010-069 | S | M24×1.5 | 400 | 16 | 14 | 24 | 30 | 27 |
| 31-1010-070 | 31-2010-070 | | M30×2 | 400 | 20 | 06 | 27 | 36 | 17 |
| 31-1010-071 | 31-2010-071 | | M30×2 | 400 | 20 | 08 | 27 | 36 | 19 |
| 31-1010-072 | 31-2010-072 | | M30×2 | 400 | 20 | 10 | 27 | 36 | 22 |
| 31-1010-073 | 31-2010-073 | | M30×2 | 400 | 20 | 12 | 27 | 36 | 24 |
| 31-1010-074 | 31-2010-074 | | M30×2 | 400 | 20 | 14 | 27 | 36 | 27 |
| 31-1010-075 | 31-2010-075 | | S/L | M30×2 | 315 | 20 | 15 | 27 | 36 |
| 31-1010-076 | 31-2010-076 | S | M30×2 | 400 | 20 | 16 | 27 | 36 | 30 |
| 31-1010-077 | 31-2010-077 | S/L | M30×2 | 315 | 20 | 18 | 27 | 36 | 32 |
| 31-1010-078 | 31-2010-078 | S | M36×2 | 400 | 25 | 06 | 32 | 46 | 17 |
| 31-1010-079 | 31-2010-079 | | M36×2 | 400 | 25 | 08 | 32 | 46 | 19 |
| 31-1010-080 | 31-2010-080 | | M36×2 | 400 | 25 | 10 | 32 | 46 | 22 |
| 31-1010-081 | 31-2010-081 | | M36×2 | 400 | 25 | 12 | 32 | 46 | 24 |
| 31-1010-082 | 31-2010-082 | | M36×2 | 400 | 25 | 14 | 32 | 46 | 27 |
| 31-1010-083 | 31-2010-083 | | M36×2 | 400 | 25 | 16 | 32 | 46 | 30 |
| 31-1010-084 | 31-2010-084 | S/L | M36×2 | 315 | 25 | 18 | 32 | 46 | 32 |
| 31-1010-085 | 31-2010-085 | S | M36×2 | 400 | 25 | 20 | 32 | 46 | 36 |
| 31-1010-086 | 31-2010-086 | S/L | M36×2 | 160 | 25 | 22 | 32 | 46 | 36 |
| 31-1010-087 | 31-2010-087 | S | M42×2 | 400 | 30 | 06 | 41 | 50 | 17 |
| 31-1010-088 | 31-2010-088 | | M42×2 | 400 | 30 | 08 | 41 | 50 | 19 |
| 31-1010-089 | 31-2010-089 | | M42×2 | 400 | 30 | 10 | 41 | 50 | 22 |
| 31-1010-090 | 31-2010-090 | | M42×2 | 400 | 30 | 12 | 41 | 50 | 24 |
| 31-1010-091 | 31-2010-091 | | M42×2 | 400 | 30 | 14 | 41 | 50 | 27 |
| 31-1010-092 | 31-2010-092 | | M42×2 | 400 | 30 | 16 | 41 | 50 | 30 |
| 31-1010-093 | 31-2010-093 | | M42×2 | 400 | 30 | 20 | 41 | 50 | 36 |
| 31-1010-094 | 31-2010-094 | S/L | M42×2 | 160 | 30 | 22 | 41 | 50 | 36 |
| 31-1010-095 | 31-2010-095 | S | M42×2 | 400 | 30 | 25 | 41 | 50 | 46 |
| 31-1010-096 | 31-2010-096 | S/L | M42×2 | 160 | 30 | 28 | 41 | 50 | 41 |
| 31-1010-097 | 31-2010-097 | S | M52×2 | 315 | 38 | 06 | 50 | 60 | 17 |
| 31-1010-098 | 31-2010-098 | | M52×2 | 315 | 38 | 08 | 50 | 60 | 19 |
| 31-1010-099 | 31-2010-099 | | M52×2 | 315 | 38 | 10 | 50 | 60 | 22 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



| Order No. (CS) | Order No. (304) | Series | d1 | PN (BAR) | D1 (mm) | D2 (mm) | S1 | S2 | S3 |
|----------------|-----------------|--------|-------|----------|---------|---------|----|----|----|
| 31-1010-100 | 31-2010-100 | S | M52×2 | 315 | 38 | 12 | 50 | 60 | 24 |
| 31-1010-101 | 31-2010-101 | | M52×2 | 315 | 38 | 14 | 50 | 60 | 27 |
| 31-1010-102 | 31-2010-102 | | M52×2 | 315 | 38 | 16 | 50 | 60 | 30 |
| 31-1010-103 | 31-2010-103 | | M52×2 | 315 | 38 | 20 | 50 | 60 | 36 |
| 31-1010-104 | 31-2010-104 | | M52×2 | 315 | 38 | 25 | 50 | 60 | 46 |
| 31-1010-105 | 31-2010-105 | S/L | M52×2 | 160 | 38 | 28 | 50 | 60 | 41 |
| 31-1010-106 | 31-2010-106 | S | M52×2 | 315 | 38 | 30 | 50 | 60 | 50 |
| 31-1010-107 | 31-2010-107 | S/L | M52×2 | 160 | 38 | 35 | 50 | 60 | 50 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

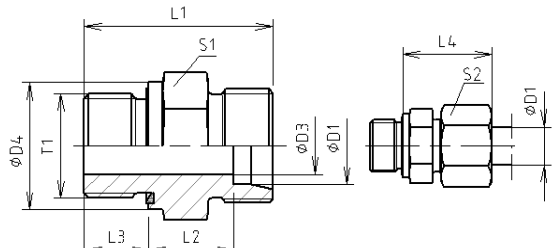
| | | Bulkhead Union | | | | | | |
|---|-----------------|-----------------------|--------|----------|---------|----|----|----|
|  | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | D (mm) | PN (BAR) | M | S1 | S2 | S4 |
| 31-1012-001 | 31-2012-001 | L | 06 | 315 | M12x1.5 | 17 | 14 | 17 |
| 31-1012-002 | 31-2012-002 | | 08 | 315 | M14x1.5 | 19 | 17 | 19 |
| 31-1012-003 | 31-2012-003 | | 10 | 315 | M16x1.5 | 22 | 19 | 22 |
| 31-1012-004 | 31-2012-004 | | 12 | 315 | M18x1.5 | 24 | 22 | 24 |
| 31-1012-005 | 31-2012-005 | | 15 | 315 | M22x1.5 | 27 | 27 | 30 |
| 31-1012-006 | 31-2012-006 | | 18 | 315 | M26x1.5 | 32 | 32 | 36 |
| 31-1012-007 | 31-2012-007 | | 22 | 160 | M30x2 | 36 | 36 | 41 |
| 31-1012-008 | 31-2012-008 | | 28 | 160 | M36x2 | 41 | 41 | 46 |
| 31-1012-009 | 31-2012-009 | | 35 | 160 | M45x2 | 50 | 50 | 55 |
| 31-1012-010 | 31-2012-010 | | 42 | 160 | M52x2 | 60 | 60 | 65 |
| 31-1012-011 | 31-2012-011 | S | 06 | 630 | M14x1.5 | 19 | 17 | 19 |
| 31-1012-012 | 31-2012-012 | | 08 | 630 | M16x1.5 | 22 | 19 | 22 |
| 31-1012-013 | 31-2012-013 | | 10 | 630 | M18x1.5 | 24 | 22 | 24 |
| 31-1012-014 | 31-2012-014 | | 12 | 630 | M20x1.5 | 27 | 24 | 27 |
| 31-1012-015 | 31-2012-015 | | 14 | 630 | M22x1.5 | 30 | 27 | 30 |
| 31-1012-016 | 31-2012-016 | | 16 | 400 | M24x1.5 | 32 | 30 | 32 |
| 31-1012-017 | 31-2012-017 | | 20 | 400 | M30x2 | 41 | 36 | 41 |
| 31-1012-018 | 31-2012-018 | | 25 | 400 | M36x2 | 46 | 46 | 46 |
| 31-1012-019 | 31-2012-019 | | 30 | 400 | M42x2 | 50 | 50 | 50 |
| 31-1012-020 | 31-2012-020 | | 38 | 315 | M52x2 | 65 | 60 | 65 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

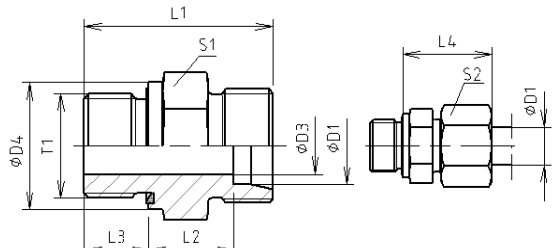


| Order No. (CS) | Order No. (304) | Series | D (mm) | PN (BAR) | M | d2 | S2 | S4 |
|----------------|-----------------|--------|--------|----------|---------|----|----|----|
| 31-013-1001 | 31-013-2001 | L | 06 | 315 | M12x1.5 | 17 | 14 | 17 |
| 31-013-1002 | 31-013-2002 | | 08 | 315 | M14x1.5 | 19 | 17 | 19 |
| 31-013-1003 | 31-013-2003 | | 10 | 315 | M16x1.5 | 22 | 19 | 22 |
| 31-013-1004 | 31-013-2004 | | 12 | 315 | M18x1.5 | 24 | 22 | 24 |
| 31-013-1005 | 31-013-2005 | | 15 | 315 | M22x1.5 | 27 | 27 | 30 |
| 31-013-1006 | 31-013-2006 | | 18 | 315 | M26x1.5 | 32 | 32 | 36 |
| 31-013-1007 | 31-013-2007 | | 22 | 160 | M30x2 | 36 | 36 | 41 |
| 31-013-1008 | 31-013-2008 | | 28 | 160 | M36x2 | 42 | 41 | 46 |
| 31-013-1009 | 31-013-2009 | | 35 | 160 | M45x2 | 50 | 50 | 55 |
| 31-013-1010 | 31-013-2010 | | 42 | 160 | M52x2 | 60 | 60 | 65 |
| 31-013-1011 | 31-013-2011 | S | 06 | 630 | M14x1.5 | 19 | 17 | 19 |
| 31-013-1012 | 31-013-2012 | | 08 | 630 | M16x1.5 | 22 | 19 | 22 |
| 31-013-1013 | 31-013-2013 | | 10 | 630 | M18x1.5 | 24 | 22 | 24 |
| 31-013-1014 | 31-013-2014 | | 12 | 630 | M20x1.5 | 27 | 24 | 27 |
| 31-013-1015 | 31-013-2015 | | 14 | 630 | M22x1.5 | 27 | 27 | 30 |
| 31-013-1016 | 31-013-2016 | | 16 | 400 | M24x1.5 | 30 | 30 | 32 |
| 31-013-1017 | 31-013-2017 | | 20 | 400 | M30x2 | 36 | 36 | 41 |
| 31-013-1018 | 31-013-2018 | | 25 | 400 | M36x2 | 42 | 46 | 46 |
| 31-013-1019 | 31-013-2019 | | 30 | 400 | M42x2 | 50 | 50 | 50 |
| 31-013-1020 | 31-013-2020 | | 38 | 315 | M52x2 | 60 | 60 | 65 |

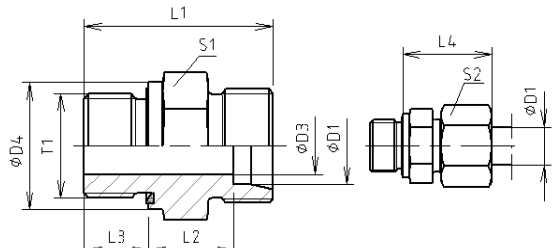
If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| Male Stud Connector (Metric) | | | | | | | | | |
|---|-----------------|--------|---------|----------|---------|---------|---------|----|----|
| ED sealing | | | | | | | | | |
|  | | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T1 | PN (BAR) | D1 (mm) | D4 (mm) | L3 (mm) | S1 | S2 |
| 31-1014-001 | 31-2014-001 | L | M10×1 | 315 | 06 | 14 | 8 | 14 | 14 |
| 31-1014-002 | 31-2014-002 | | M12×1.5 | 315 | 08 | 17 | 12 | 17 | 17 |
| 31-1014-003 | 31-2014-003 | | M14×1.5 | 315 | 10 | 19 | 12 | 19 | 19 |
| 31-1014-004 | 31-2014-004 | | M12×1.5 | 315 | 10 | 17 | 12 | 17 | 19 |
| 31-1014-005 | 31-2014-005 | | M16×1.5 | 315 | 10 | 22 | 12 | 22 | 19 |
| 31-1014-006 | 31-2014-006 | | M18×1.5 | 315 | 10 | 24 | 12 | 24 | 19 |
| 31-1014-007 | 31-2014-007 | | M22×1.5 | 315 | 10 | 27 | 14 | 27 | 19 |
| 31-1014-008 | 31-2014-008 | | M16×1.5 | 315 | 12 | 22 | 12 | 22 | 22 |
| 31-1014-009 | 31-2014-009 | | M14×1.5 | 315 | 12 | 19 | 12 | 19 | 22 |
| 31-1014-010 | 31-2014-010 | | M18×1.5 | 315 | 12 | 24 | 12 | 24 | 22 |
| 31-1014-011 | 31-2014-011 | | M22×1.5 | 315 | 12 | 27 | 14 | 27 | 22 |
| 31-1014-012 | 31-2014-012 | | M18×1.5 | 315 | 15 | 24 | 12 | 24 | 27 |
| 31-1014-013 | 31-2014-013 | | M16×1.5 | 315 | 15 | 22 | 12 | 24 | 27 |
| 31-1014-014 | 31-2014-014 | | M22×1.5 | 315 | 15 | 27 | 14 | 27 | 27 |
| 31-1014-015 | 31-2014-015 | | M22×1.5 | 315 | 18 | 27 | 14 | 27 | 32 |
| 31-1014-016 | 31-2014-016 | | M18×1.5 | 315 | 18 | 24 | 12 | 27 | 32 |
| 31-1014-017 | 31-2014-017 | | M26×1.5 | 160 | 22 | 32 | 16 | 32 | 36 |
| 31-1014-018 | 31-2014-018 | | M22×1.5 | 160 | 22 | 32 | 14 | 32 | 36 |
| 31-1014-019 | 31-2014-019 | | M33×2 | 160 | 28 | 40 | 18 | 41 | 41 |
| 31-1014-020 | 31-2014-020 | | M42×2 | 160 | 35 | 50 | 20 | 50 | 50 |
| 31-1014-021 | 31-2014-021 | | M48×2 | 160 | 42 | 55 | 22 | 55 | 60 |
| 31-1014-022 | 31-2014-022 | S | M12×1.5 | 630 | 06 | 17 | 12 | 17 | 17 |
| 31-1014-023 | 31-2014-023 | | M14×1.5 | 630 | 06 | 19 | 12 | 19 | 17 |
| 31-1014-024 | 31-2014-024 | | M14×1.5 | 630 | 08 | 19 | 12 | 19 | 19 |
| 31-1014-025 | 31-2014-025 | | M16×1.5 | 630 | 10 | 22 | 12 | 22 | 22 |
| 31-1014-026 | 31-2014-026 | | M18×1.5 | 630 | 12 | 24 | 12 | 24 | 24 |
| 31-1014-027 | 31-2014-027 | | M14×1.5 | 630 | 12 | 19 | 12 | 22 | 24 |
| 31-1014-028 | 31-2014-028 | | M22×1.5 | 630 | 12 | 27 | 14 | 27 | 24 |
| 31-1014-029 | 31-2014-029 | | M20×1.5 | 630 | 14 | 26 | 14 | 27 | 27 |
| 31-1014-030 | 31-2014-030 | | M22×1.5 | 400 | 16 | 27 | 14 | 27 | 30 |
| 31-1014-031 | 31-2014-031 | | M18×1.5 | 400 | 16 | 24 | 12 | 27 | 30 |
| 31-1014-032 | 31-2014-032 | | M27×2 | 400 | 20 | 32 | 16 | 32 | 36 |
| 31-1014-033 | 31-2014-033 | | M33×2 | 400 | 25 | 40 | 18 | 41 | 46 |
| 31-1014-034 | 31-2014-034 | | M42×2 | 400 | 30 | 50 | 20 | 50 | 50 |
| 31-1014-035 | 31-2014-035 | | M48×2 | 315 | 38 | 55 | 22 | 55 | 60 |

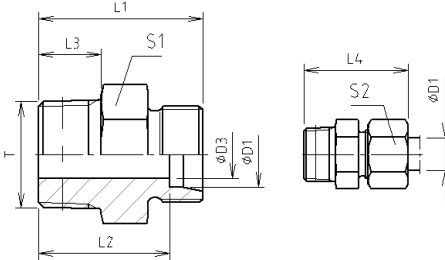
If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| | | Male Stud Connector (BSPP) ED sealing | | | | | | | |
|---|-----------------|--|--------|----------|---------|---------|---------|----|----|
|  | | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T1 | PN (BAR) | D1 (mm) | D4 (mm) | L3 (mm) | S1 | S2 |
| 31-1016-001 | 31-2016-001 | LL | G1/8A | 100 | 04 | 14 | 8 | 14 | 10 |
| 31-1016-002 | 31-2016-002 | | G1/8A | 100 | 06 | 14 | 8 | 14 | 12 |
| 31-1016-003 | 31-2016-003 | | G1/8A | 315 | 06 | 14 | 8 | 14 | 14 |
| 31-1016-004 | 31-2016-004 | | G1/4A | 315 | 06 | 19 | 12 | 19 | 14 |
| 31-1016-005 | 31-2016-005 | | G3/8A | 315 | 06 | 22 | 12 | 22 | 14 |
| 31-1016-006 | 31-2016-006 | | G1/2A | 315 | 06 | 27 | 14 | 27 | 14 |
| 31-1016-007 | 31-2016-007 | | G1/4A | 315 | 08 | 19 | 12 | 19 | 17 |
| 31-1016-008 | 31-2016-008 | | G1/8A | 315 | 08 | 14 | 8 | 14 | 17 |
| 31-1016-009 | 31-2016-009 | | G3/8A | 315 | 08 | 22 | 12 | 22 | 17 |
| 31-1016-010 | 31-2016-010 | | G1/2A | 315 | 08 | 27 | 14 | 27 | 17 |
| 31-1016-011 | 31-2016-011 | | G1/4A | 315 | 10 | 19 | 12 | 19 | 19 |
| 31-1016-012 | 31-2016-012 | | G1/8A | 315 | 10 | 14 | 8 | 17 | 19 |
| 31-1016-013 | 31-2016-013 | | G3/8A | 315 | 10 | 22 | 12 | 22 | 19 |
| 31-1016-014 | 31-2016-014 | G1/2A | 315 | 10 | 27 | 14 | 27 | 19 | |
| 31-1016-015 | 31-2016-015 | G3/8A | 315 | 12 | 22 | 12 | 22 | 22 | |
| 31-1016-016 | 31-2016-016 | G1/8A | 315 | 12 | 14 | 8 | 19 | 22 | |
| 31-1016-017 | 31-2016-017 | G1/4A | 315 | 12 | 19 | 12 | 19 | 22 | |
| 31-1016-018 | 31-2016-018 | G1/2A | 315 | 12 | 27 | 14 | 27 | 22 | |
| 31-1016-019 | 31-2016-019 | L | G3/4A | 315 | 12 | 32 | 16 | 32 | 22 |
| 31-1016-020 | 31-2016-020 | | G1/2A | 315 | 15 | 27 | 14 | 27 | 27 |
| 31-1016-021 | 31-2016-021 | | G3/8A | 315 | 15 | 22 | 12 | 24 | 27 |
| 31-1016-022 | 31-2016-022 | | G3/4A | 315 | 15 | 32 | 16 | 32 | 27 |
| 31-1016-023 | 31-2016-023 | | G1/2A | 315 | 18 | 27 | 14 | 27 | 32 |
| 31-1016-024 | 31-2016-024 | | G3/8A | 315 | 18 | 22 | 12 | 27 | 32 |
| 31-1016-025 | 31-2016-025 | | G3/4A | 315 | 18 | 32 | 16 | 32 | 32 |
| 31-1016-026 | 31-2016-026 | | G3/4A | 160 | 22 | 32 | 16 | 32 | 36 |
| 31-1016-027 | 31-2016-027 | | G1/2A | 160 | 22 | 27 | 14 | 32 | 36 |
| 31-1016-028 | 31-2016-028 | | G1A | 160 | 22 | 40 | 18 | 41 | 36 |
| 31-1016-029 | 31-2016-029 | | G1A | 160 | 28 | 40 | 18 | 41 | 41 |
| 31-1016-030 | 31-2016-030 | | G3/4A | 160 | 28 | 32 | 16 | 41 | 41 |
| 31-1016-031 | 31-2016-031 | | G11/4A | 160 | 28 | 50 | 20 | 50 | 41 |
| 31-1016-032 | 31-2016-032 | | G11/4A | 160 | 35 | 50 | 20 | 50 | 50 |
| 31-1016-033 | 31-2016-033 | | G1A | 160 | 35 | 40 | 18 | 46 | 50 |
| 31-1016-034 | 31-2016-034 | | G11/2A | 160 | 35 | 55 | 22 | 55 | 50 |
| 31-1016-035 | 31-2016-035 | | G11/2A | 160 | 42 | 55 | 22 | 55 | 60 |

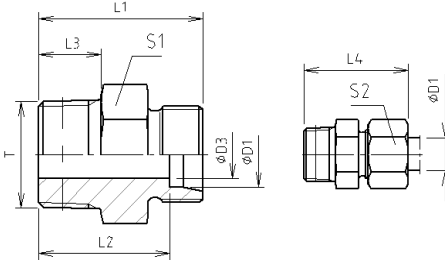
If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| | | Male Stud Connector (BSPP) ED sealing | | | | | | | | |
|---|-----------------|--|--------|----------|---------|---------|---------|----|----|----|
|  | | | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T1 | PN (BAR) | D1 (mm) | D4 (mm) | L3 (mm) | S1 | S2 | |
| 31-1016-036 | 31-2016-036 | L | G1A | 160 | 42 | 40 | 18 | 55 | 60 | |
| 31-1016-037 | 31-2016-037 | | G11/4A | 160 | 42 | 50 | 20 | 55 | 60 | |
| 31-1016-038 | 31-2016-038 | | G1/4A | 630 | 06 | 19 | 12 | 19 | 17 | |
| 31-1016-039 | 31-2016-039 | | G1/8A | 630 | 06 | 14 | 8 | 14 | 17 | |
| 31-1016-040 | 31-2016-040 | | G3/8A | 630 | 06 | 22 | 12 | 22 | 17 | |
| 31-1016-041 | 31-2016-041 | | G1/2A | 630 | 06 | 27 | 14 | 27 | 17 | |
| 31-1016-042 | 31-2016-042 | | G1/4A | 630 | 08 | 19 | 12 | 19 | 19 | |
| 31-1016-043 | 31-2016-043 | | G3/8A | 630 | 08 | 22 | 12 | 22 | 19 | |
| 31-1016-044 | 31-2016-044 | | G1/2A | 630 | 08 | 27 | 14 | 27 | 19 | |
| 31-1016-045 | 31-2016-045 | | G3/8A | 630 | 10 | 22 | 12 | 22 | 22 | |
| 31-1016-046 | 31-2016-046 | | G1/4A | 630 | 10 | 19 | 12 | 19 | 22 | |
| 31-1016-047 | 31-2016-047 | | G1/2A | 630 | 10 | 27 | 14 | 27 | 22 | |
| 31-1016-048 | 31-2016-048 | | G3/8A | 630 | 12 | 22 | 12 | 22 | 24 | |
| 31-1016-049 | 31-2016-049 | | G1/4A | 630 | 12 | 19 | 12 | 22 | 24 | |
| 31-1016-050 | 31-2016-050 | | G1/2A | 630 | 12 | 27 | 14 | 27 | 24 | |
| 31-1016-051 | 31-2016-051 | | G1/2A | 630 | 14 | 27 | 14 | 27 | 27 | |
| 31-1016-052 | 31-2016-052 | | G3/8A | 630 | 14 | 22 | 12 | 24 | 27 | |
| 31-1016-053 | 31-2016-053 | | G3/4A | 630 | 14 | 32 | 16 | 32 | 27 | |
| 31-1016-054 | 31-2016-054 | | S | G1/2A | 400 | 16 | 27 | 14 | 27 | 30 |
| 31-1016-055 | 31-2016-055 | | | G3/8A | 400 | 16 | 22 | 12 | 27 | 30 |
| 31-1016-056 | 31-2016-056 | G3/4A | | 400 | 16 | 27 | 16 | 32 | 30 | |
| 31-1016-057 | 31-2016-057 | G3/4A | | 400 | 20 | 32 | 16 | 32 | 36 | |
| 31-1016-058 | 31-2016-058 | G1/2A | | 400 | 20 | 27 | 14 | 32 | 36 | |
| 31-1016-059 | 31-2016-059 | G1A | | 400 | 20 | 40 | 18 | 41 | 36 | |
| 31-1016-060 | 31-2016-060 | G11/4A | | 400 | 20 | 50 | 20 | 50 | 36 | |
| 31-1016-061 | 31-2016-061 | G1A | | 400 | 25 | 40 | 18 | 41 | 46 | |
| 31-1016-062 | 31-2016-062 | G1/2A | | 400 | 25 | 27 | 14 | 41 | 46 | |
| 31-1016-063 | 31-2016-063 | G3/4A | | 400 | 25 | 32 | 16 | 41 | 46 | |
| 31-1016-064 | 31-2016-064 | G11/4A | | 400 | 25 | 50 | 20 | 50 | 46 | |
| 31-1016-065 | 31-2016-065 | G11/2A | | 400 | 25 | 55 | 22 | 55 | 46 | |
| 31-1016-066 | 31-2016-066 | G11/4A | | 400 | 30 | 50 | 20 | 50 | 50 | |
| 31-1016-067 | 31-2016-067 | G1A | | 400 | 30 | 40 | 18 | 46 | 50 | |
| 31-1016-068 | 31-2016-068 | G11/2A | | 400 | 30 | 55 | 22 | 55 | 50 | |
| 31-1016-069 | 31-2016-069 | G11/2A | | 315 | 38 | 55 | 22 | 55 | 60 | |
| 31-1016-070 | 31-2016-070 | G11/4A | 315 | 38 | 50 | 20 | 55 | 60 | | |

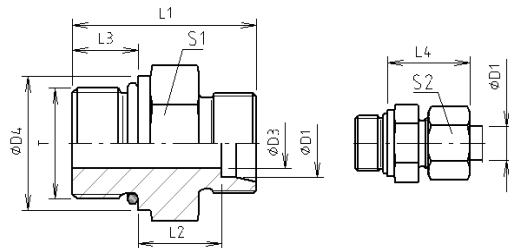
If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| | | Male Stud Connector (BSPT) | | | | | | |
|---|-----------------|-----------------------------------|----------|----------|---------|---------|----|----|
|  | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | L3 (mm) | S1 | S2 |
| 31-1018-001 | 31-2018-001 | LL | R1/8 tap | 100 | 04 | 8 | 11 | 10 |
| 31-1018-002 | 31-2018-002 | | R1/8 tap | 100 | 06 | 8 | 11 | 12 |
| 31-1018-003 | 31-2018-003 | | R1/8 tap | 100 | 08 | 8 | 12 | 14 |
| 31-1018-004 | 31-2018-004 | | R1/4 tap | 100 | 08 | 12 | 14 | 14 |
| 31-1018-005 | 31-2018-005 | | R1/4 tap | 100 | 10 | 12 | 14 | 17 |
| 31-1018-006 | 31-2018-006 | | R1/4 tap | 100 | 12 | 12 | 17 | 19 |
| 31-1018-007 | 31-2018-007 | | R3/8 tap | 100 | 12 | 12 | 17 | 19 |
| 31-1018-008 | 31-2018-008 | | L | R1/8 tap | 315 | 06 | 8 | 12 |
| 31-1018-009 | 31-2018-009 | R1/4 tap | | 315 | 06 | 12 | 17 | 14 |
| 31-1018-010 | 31-2018-010 | R1/8 tap | | 315 | 08 | 8 | 17 | 17 |
| 31-1018-011 | 31-2018-011 | R1/4 tap | | 315 | 08 | 12 | 17 | 17 |
| 31-1018-012 | 31-2018-012 | R1/4 tap | | 315 | 10 | 12 | 17 | 19 |
| 31-1018-013 | 31-2018-013 | R1/4 tap | | 315 | 12 | 12 | 19 | 22 |
| 31-1018-014 | 31-2018-014 | R3/8 tap | | 315 | 12 | 12 | 19 | 22 |
| 31-1018-015 | 31-2018-015 | R1/2 tap | | 315 | 12 | 14 | 24 | 22 |
| 31-1018-016 | 31-2018-016 | R3/8 tap | | 315 | 15 | 12 | 24 | 27 |
| 31-1018-017 | 31-2018-017 | R1/2 tap | | 315 | 15 | 14 | 24 | 27 |
| 31-1018-018 | 31-2018-018 | R1/2 tap | | 315 | 18 | 14 | 27 | 32 |
| 31-1018-019 | 31-2018-019 | R3/4 tap | | 160 | 22 | 16 | 32 | 36 |
| 31-1018-020 | 31-2018-020 | R1 tap | | 160 | 28 | 18 | 41 | 41 |
| 31-1018-021 | 31-2018-021 | R1 1/4 tap | | 160 | 35 | 20 | 46 | 50 |
| 31-1018-022 | 31-2018-022 | R1 1/2 tap | 160 | 42 | 22 | 55 | 60 | |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

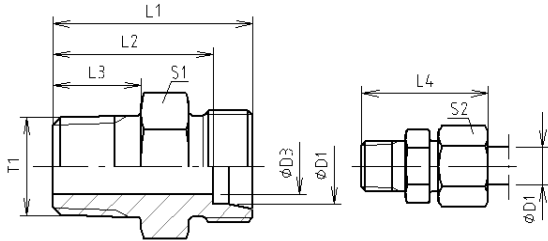
| | | Male Stud Connector (Metric Tapper) | | | | | | |
|---|-----------------|--|-----------|----------|---------|---------|----|----|
|  | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | L3 (mm) | S1 | S2 |
| 31-1019-001 | 31-2019-001 | LL | M6×1 tap | 100 | 04 | 8 | 9 | 10 |
| 31-1019-002 | 31-2019-002 | | M8×1 tap | 100 | 04 | 8 | 10 | 10 |
| 31-1019-003 | 31-2019-003 | | M10×1 tap | 100 | 06 | 8 | 11 | 12 |
| 31-1019-004 | 31-2019-004 | | M8×1 tap | 100 | 06 | 8 | 11 | 12 |
| 31-1019-005 | 31-2019-005 | | M10×1 tap | 100 | 08 | 8 | 12 | 14 |
| 31-1019-006 | 31-2019-006 | | M10×1 tap | 100 | 10 | | | |
| 31-1019-007 | 31-2019-007 | S | M27×2 tap | 400 | 20 | | 11 | 10 |
| 31-1019-008 | 31-2019-008 | LL | M6×1 tap | 100 | 6 | | 11 | 12 |
| 31-1019-009 | 31-2019-009 | | M6×1 tap | 100 | 10 | | | |
| 31-1019-010 | 31-2019-010 | | M8×1 tap | 100 | 10 | | | |
| 31-1019-011 | 31-2019-011 | | M10×1 tap | 100 | 04 | | 11 | 10 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| | | Male Stud Connector (UN / UNF) O ring sealing | | | | | | | |
|----------------|-----------------|---|---------------|---------------|---------|---------|---------|----|----|
| | |  | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | D4 (mm) | L3 (mm) | S1 | S2 |
| 31-020-1001 | 31-020-2001 | L | 7/16-20UNF-2A | 315 | 08 | 14.4 | 9 | 17 | 17 |
| 31-020-1002 | 31-020-2002 | | 7/16-20UNF-2A | 315 | 10 | 14.4 | 10 | 17 | 19 |
| 31-020-1003 | 31-020-2003 | | 9/16-18UNF-2A | 315 | 12 | 17.6 | 10 | 19 | 22 |
| 31-020-1004 | 31-020-2004 | | 3/4-16UNF-2A | 315 | 12 | 22.3 | 11 | 24 | 22 |
| 31-020-1005 | 31-020-2005 | | 7/8-14UNF-2A | 315 | 12 | 25.5 | 12.7 | 27 | 22 |
| 31-020-1006 | 31-020-2006 | | 3/4-16UNF-2A | 315 | 15 | 22.3 | 11 | 24 | 27 |
| 31-020-1007 | 31-020-2007 | | 7/8-14UNF-2A | 315 | 15 | 25.5 | 12.7 | 27 | 27 |
| 31-020-1008 | 31-020-2008 | | 3/4-16UNF-2A | 315 | 18 | 22.3 | 11 | 27 | 32 |
| 31-020-1009 | 31-020-2009 | | 7/8-14UNF-2A | 315 | 18 | 25.5 | 12.7 | 27 | 32 |
| 31-020-1010 | 31-020-2010 | | 7/8-14UNF-2A | 160 | 22 | 25.5 | 12.7 | 32 | 36 |
| 31-020-1011 | 31-020-2011 | | 11/16-12UN-2A | 160 | 22 | 31.9 | 15 | 32 | 36 |
| 31-020-1012 | 31-020-2012 | | 15/16-12UN-2A | 160 | 22 | 38.2 | 15 | 41 | 36 |
| 31-020-1013 | 31-020-2013 | | 11/16-12UN-2A | 160 | 28 | 31.9 | 15 | 41 | 41 |
| 31-020-1014 | 31-020-2014 | | 15/16-12UN-2A | 160 | 28 | 38.2 | 15 | 41 | 41 |
| 31-020-1015 | 31-020-2015 | | 15/16-12UN-2A | 160 | 35 | 38.2 | 15 | 46 | 50 |
| 31-020-1016 | 31-020-2016 | | 15/8-12UN-2A | 160 | 35 | 47.7 | 15 | 50 | 50 |
| 31-020-1017 | 31-020-2017 | | 15/8-12UN-2A | 160 | 42 | 47.7 | 15 | 55 | 60 |
| 31-020-1018 | 31-020-2018 | | S | 7/16-20UNF-2A | 630 | 08 | 16 | 9 | 17 |
| 31-020-1019 | 31-020-2019 | 9/16-18UNF-2A | | 630 | 10 | 17.6 | 10 | 19 | 22 |
| 31-020-1020 | 31-020-2020 | 9/16-18UNF-2A | | 630 | 12 | 17.6 | 10 | 22 | 24 |
| 31-020-1021 | 31-020-2021 | 3/4-16UNF-2A | | 630 | 12 | 22.3 | 11 | 24 | 24 |
| 31-020-1022 | 31-020-2022 | 3/4-16UNF-2A | | 400 | 16 | 22.3 | 11 | 24 | 30 |
| 31-020-1023 | 31-020-2023 | 7/8-14UNF-2A | | 400 | 16 | 25.5 | 12.7 | 27 | 30 |
| 31-020-1024 | 31-020-2024 | 3/4-16UNF-2A | | 400 | 20 | 22.3 | 11 | 32 | 36 |
| 31-020-1025 | 31-020-2025 | 7/8-14UNF-2A | | 400 | 20 | 25.5 | 12.7 | 32 | 36 |
| 31-020-1026 | 31-020-2026 | 11/16-12UN-2A | | 400 | 20 | 31.9 | 15 | 32 | 36 |
| 31-020-1027 | 31-020-2027 | 11/16-12UN-2A | | 400 | 25 | 31.9 | 15 | 36 | 46 |
| 31-020-1028 | 31-020-2028 | 15/16-12UN-2A | | 400 | 25 | 38.2 | 15 | 41 | 46 |
| 31-020-1029 | 31-020-2029 | 15/16-12UN-2A | | 400 | 30 | 38.2 | 15 | 46 | 50 |
| 31-020-1030 | 31-020-2030 | 15/8-12UN-2A | | 400 | 30 | 47.7 | 15 | 50 | 50 |
| 31-020-1031 | 31-020-2031 | 15/8-12UN-2A | | 315 | 38 | 47.7 | 15 | 55 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

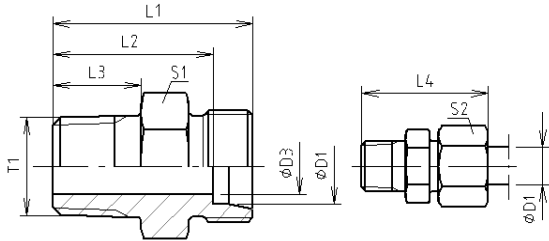
Male Stud Connector (NPT)



| Order No. (CS) | Order No. (304) | Series | T (NPT) | PN (BAR) | D1 (mm) | L3 (mm) | S1 | S2 |
|----------------|-----------------|--------|-------------|----------|---------|---------|----|----|
| 31-1021-001 | 31-2021-001 | LL | NPT1/8-27 | 100 | 04 | 10 | 11 | 10 |
| 31-1021-002 | 31-2021-002 | | NPT1/8-27 | 100 | 06 | 10 | 11 | 12 |
| 31-1021-003 | 31-2021-003 | | NPT1/8-27 | 100 | 08 | 10 | 12 | 14 |
| 31-1021-004 | 31-2021-004 | L | NPT1/8-27 | 315 | 06 | 10 | 12 | 14 |
| 31-1021-005 | 31-2021-005 | | NPT1/4-18 | 315 | 06 | 15 | 17 | 14 |
| 31-1021-006 | 31-2021-006 | | NPT3/8-18 | 315 | 06 | 15.3 | 19 | 14 |
| 31-1021-007 | 31-2021-007 | | NPT1/2-14 | 315 | 06 | 20 | 22 | 14 |
| 31-1021-008 | 31-2021-008 | | NPT1/8-27 | 315 | 08 | 10 | 14 | 17 |
| 31-1021-009 | 31-2021-009 | | NPT1/4-18 | 315 | 08 | 15 | 17 | 17 |
| 31-1021-010 | 31-2021-010 | | NPT3/8-18 | 315 | 08 | 15.3 | 19 | 17 |
| 31-1021-011 | 31-2021-011 | | NPT1/2-14 | 315 | 08 | 20 | 22 | 17 |
| 31-1021-012 | 31-2021-012 | | NPT1/8-27 | 315 | 10 | 10 | 17 | 19 |
| 31-1021-013 | 31-2021-013 | | NPT1/4-18 | 315 | 10 | 15 | 17 | 19 |
| 31-1021-014 | 31-2021-014 | | NPT3/8-18 | 315 | 10 | 15.3 | 19 | 19 |
| 31-1021-015 | 31-2021-015 | | NPT1/2-14 | 315 | 10 | 20 | 22 | 19 |
| 31-1021-016 | 31-2021-016 | | NPT3/4-14 | 315 | 10 | 20 | 30 | 19 |
| 31-1021-017 | 31-2021-017 | | NPT1/8-27 | 315 | 12 | 10 | 19 | 22 |
| 31-1021-018 | 31-2021-018 | | NPT1/4-18 | 315 | 12 | 15 | 19 | 22 |
| 31-1021-019 | 31-2021-019 | | NPT3/8-18 | 315 | 12 | 15.3 | 19 | 22 |
| 31-1021-020 | 31-2021-020 | | NPT1/2-14 | 315 | 12 | 20 | 22 | 22 |
| 31-1021-021 | 31-2021-021 | | NPT3/8-18 | 315 | 15 | 15.3 | 24 | 27 |
| 31-1021-022 | 31-2021-022 | | NPT1/2-14 | 315 | 15 | 20 | 24 | 27 |
| 31-1021-023 | 31-2021-023 | | NPT3/4-14 | 315 | 15 | 20 | 30 | 27 |
| 31-1021-024 | 31-2021-024 | | NPT1-11 1/2 | 315 | 15 | 25 | 36 | 27 |
| 31-1021-025 | 31-2021-025 | | NPT3/8-18 | 315 | 18 | 15.3 | 27 | 32 |
| 31-1021-026 | 31-2021-026 | | NPT1/2-14 | 315 | 18 | 20 | 27 | 32 |
| 31-1021-027 | 31-2021-027 | | NPT3/4-14 | 315 | 18 | 20 | 30 | 32 |
| 31-1021-028 | 31-2021-028 | | NPT1-11 1/2 | 315 | 18 | 25 | 36 | 32 |
| 31-1021-029 | 31-2021-029 | | NPT3/8-18 | 160 | 22 | 15.3 | 32 | 36 |
| 31-1021-030 | 31-2021-030 | | NPT1/2-14 | 160 | 22 | 20 | 32 | 36 |
| 31-1021-031 | 31-2021-031 | | NPT3/4-14 | 160 | 22 | 20 | 32 | 36 |
| 31-1021-032 | 31-2021-032 | | NPT1-11 1/2 | 160 | 22 | 25 | 36 | 36 |
| 31-1021-033 | 31-2021-033 | | NPT3/4-14 | 160 | 28 | 20 | 41 | 41 |

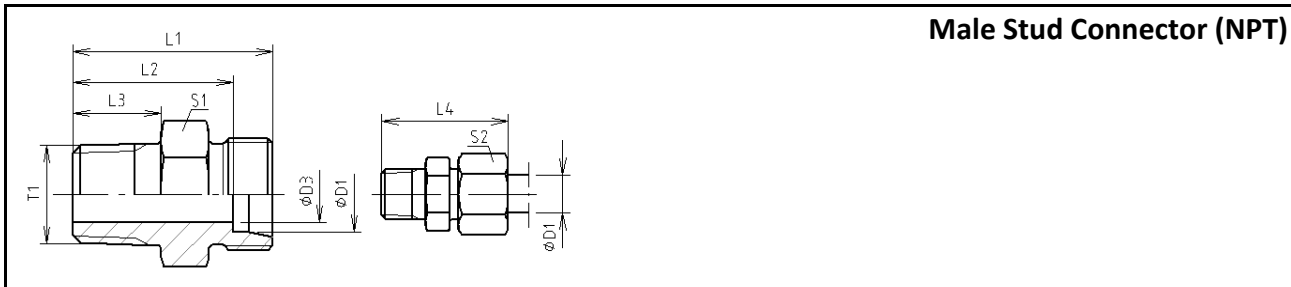
If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

Male Stud Connector (NPT)



| Order No. (CS) | Order No. (304) | Series | T (NPT) | PN (BAR) | D1 (mm) | L3 (mm) | S1 | S2 |
|----------------|-----------------|-----------|----------------|----------|---------|---------|----|----|
| 31-1021-034 | 31-2021-034 | L | NPT1-11 1/2 | 160 | 28 | 25 | 41 | 41 |
| 31-1021-035 | 31-2021-035 | | NPT11/4-1 11/2 | 160 | 28 | 25.5 | 46 | 41 |
| 31-1021-036 | 31-2021-036 | | NPT1-11 1/2 | 160 | 35 | 25 | 46 | 50 |
| 31-1021-037 | 31-2021-037 | | NPT11/4-11 1/2 | 160 | 35 | 25.5 | 46 | 50 |
| 31-1021-038 | 31-2021-038 | | NPT11/4-11 1/2 | 160 | 42 | 25.5 | 55 | 60 |
| 31-1021-039 | 31-2021-039 | | NPT11/2-11 1/2 | 160 | 42 | 26 | 55 | 60 |
| 31-1021-040 | 31-2021-040 | S | NPT1/8-27 | 630 | 06 | 10 | 14 | 17 |
| 31-1021-041 | 31-2021-041 | | NPT1/4-18 | 630 | 06 | 15 | 17 | 17 |
| 31-1021-042 | 31-2021-042 | | NPT3/8-18 | 630 | 06 | 15.3 | 19 | 17 |
| 31-1021-043 | 31-2021-043 | | NPT1/2-14 | 630 | 06 | 20 | 22 | 17 |
| 31-1021-044 | 31-2021-044 | | NPT1/4-18 | 630 | 08 | 15 | 17 | 19 |
| 31-1021-045 | 31-2021-045 | | NPT3/8-18 | 630 | 08 | 15.3 | 19 | 19 |
| 31-1021-046 | 31-2021-046 | | NPT1/2-14 | 630 | 08 | 20 | 22 | 19 |
| 31-1021-047 | 31-2021-047 | | NPT1/4-18 | 630 | 10 | 15 | 19 | 22 |
| 31-1021-048 | 31-2021-048 | | NPT3/8-18 | 630 | 10 | 15.3 | 19 | 22 |
| 31-1021-049 | 31-2021-049 | | NPT1/2-14 | 630 | 10 | 20 | 22 | 22 |
| 31-1021-050 | 31-2021-050 | | NPT3/4-14 | 630 | 10 | 20 | 30 | 22 |
| 31-1021-051 | 31-2021-051 | | NPT1/4-18 | 630 | 12 | 15 | 22 | 24 |
| 31-1021-052 | 31-2021-052 | | NPT3/8-18 | 630 | 12 | 15.3 | 22 | 24 |
| 31-1021-053 | 31-2021-053 | | NPT1/2-14 | 630 | 12 | 20 | 22 | 24 |
| 31-1021-054 | 31-2021-054 | | NPT3/4-14 | 630 | 12 | 20 | 30 | 24 |
| 31-1021-055 | 31-2021-055 | | NPT3/8-18 | 630 | 14 | 15.3 | 24 | 27 |
| 31-1021-056 | 31-2021-056 | | NPT1/2-14 | 630 | 14 | 20 | 24 | 27 |
| 31-1021-057 | 31-2021-057 | | NPT3/4-14 | 630 | 14 | 20 | 30 | 27 |
| 31-1021-058 | 31-2021-058 | | NPT1-11 1/2 | 630 | 14 | 25 | 36 | 27 |
| 31-1021-059 | 31-2021-059 | | NPT1/2-14 | 400 | 16 | 20 | 27 | 30 |
| 31-1021-060 | 31-2021-060 | | NPT3/8-18 | 400 | 16 | 15.3 | 27 | 30 |
| 31-1021-061 | 31-2021-061 | | NPT3/4-14 | 400 | 16 | 20 | 30 | 30 |
| 31-1021-062 | 31-2021-062 | | NPT1-11 1/2 | 400 | 16 | 25 | 36 | 30 |
| 31-1021-063 | 31-2021-063 | | NPT1/2-14 | 400 | 20 | 20 | 32 | 36 |
| 31-1021-064 | 31-2021-064 | | NPT3/4-14 | 400 | 20 | 20 | 32 | 36 |
| 31-1021-065 | 31-2021-065 | | NPT1-11 1/2 | 400 | 20 | 25 | 36 | 36 |
| 31-1021-066 | 31-2021-066 | NPT3/4-14 | 400 | 25 | 20 | 41 | 46 | |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

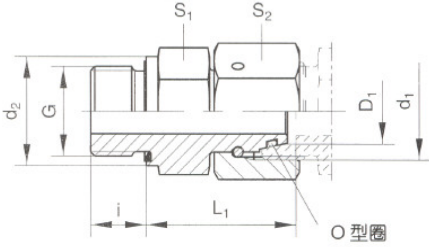


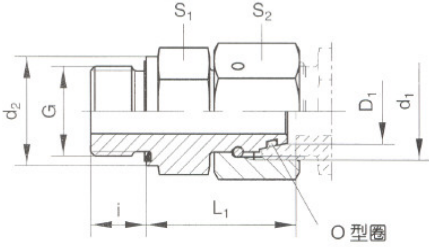
Male Stud Connector (NPT)

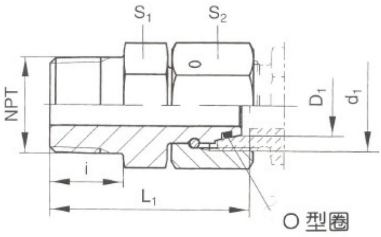
| Order No. (CS) | Order No. (304) | Series | T (NPT) | PN (BAR) | D1 (mm) | L3 (mm) | S1 | S2 |
|----------------|-----------------|--------|----------------|----------|---------|---------|----|----|
| 31-1021-067 | 31-2021-067 | S | NPT1-11 1/2 | 400 | 25 | 25 | 41 | 46 |
| 31-1021-068 | 31-2021-068 | | NPT11/4-11 1/2 | 400 | 25 | 25.5 | 46 | 46 |
| 31-1021-069 | 31-2021-069 | | NPT11/2-11 1/2 | 400 | 25 | 26 | 50 | 46 |
| 31-1021-070 | 31-2021-070 | | NPT3/4-14 | 400 | 30 | 20 | 46 | 50 |
| 31-1021-071 | 31-2021-071 | | NPT1-11 1/2 | 400 | 30 | 25 | 46 | 50 |
| 31-1021-072 | 31-2021-072 | | NPT11/4-11 1/2 | 400 | 30 | 25.5 | 46 | 50 |
| 31-1021-073 | 31-2021-073 | | NPT11/2-11 1/2 | 400 | 30 | 26 | 50 | 50 |
| 31-1021-074 | 31-2021-074 | | NPT1-11 1/2 | 315 | 38 | 25 | 55 | 60 |
| 31-1021-075 | 31-2021-075 | | NPT11/4-11 1/2 | 315 | 38 | 25.5 | 55 | 60 |
| 31-1021-076 | 31-2021-076 | | NPT11/2-11 1/2 | 315 | 38 | 26 | 55 | 60 |

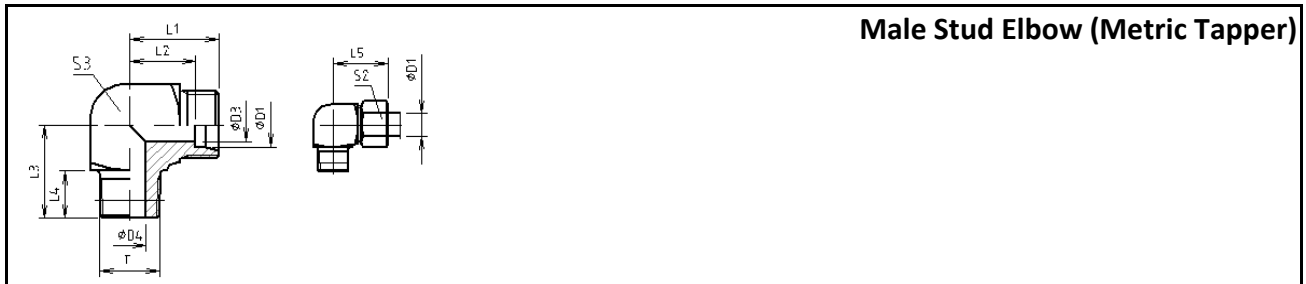
If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| Swivel Connector (Metric) ED sealing | | | | | | | | | |
|---|-----------------|--------|---------|----------|---------|---------|--------|---------|----|
|  | | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | G | PN (BAR) | D1 (mm) | d2 (mm) | i (mm) | d1 | S2 |
| 31-023-1001 | 31-023-2001 | L | M10×1 | 315 | 06 | 14 | 8 | M12×1.5 | 14 |
| 31-023-1002 | 31-023-2002 | | M12×1.5 | 315 | 08 | 17 | 12 | M14×1.5 | 17 |
| 31-023-1003 | 31-023-2003 | | M14×1.5 | 315 | 10 | 19 | 12 | M16×1.5 | 19 |
| 31-023-1004 | 31-023-2004 | | M16×1.5 | 315 | 12 | 22 | 12 | M18×1.5 | 22 |
| 31-023-1005 | 31-023-2005 | | M22×1.5 | 315 | 12 | 27 | 14 | M18×1.5 | 22 |
| 31-023-1006 | 31-023-2006 | | M18×1.5 | 315 | 15 | 24 | 12 | M22×1.5 | 27 |
| 31-023-1007 | 31-023-2007 | | M22×1.5 | 315 | 15 | 27 | 14 | M22×1.5 | 27 |
| 31-023-1008 | 31-023-2008 | | M22×1.5 | 315 | 18 | 27 | 14 | M26×1.5 | 32 |
| 31-023-1009 | 31-023-2009 | | M26×1.5 | 160 | 22 | 32 | 16 | M30×2 | 36 |
| 31-023-1010 | 31-023-2010 | | M33×2 | 160 | 28 | 40 | 18 | M36×2 | 41 |
| 31-023-1011 | 31-023-2011 | | M42×2 | 160 | 35 | 50 | 20 | M45×2 | 50 |
| 31-023-1012 | 31-023-2012 | | M48×2 | 160 | 42 | 55 | 22 | M52×2 | 60 |
| 31-023-1013 | 31-023-2013 | S | M12×1.5 | 630 | 06 | 17 | 12 | M14×1.5 | 17 |
| 31-023-1014 | 31-023-2014 | | M14×1.5 | 630 | 08 | 19 | 12 | M16×1.5 | 19 |
| 31-023-1015 | 31-023-2015 | | M16×1.5 | 630 | 10 | 22 | 12 | M18×1.5 | 22 |
| 31-023-1016 | 31-023-2016 | | M18×1.5 | 630 | 12 | 24 | 12 | M20×1.5 | 24 |
| 31-023-1017 | 31-023-2017 | | M20×1.5 | 630 | 14 | 26 | 14 | M22×1.5 | 27 |
| 31-023-1018 | 31-023-2018 | | M22×1.5 | 400 | 16 | 27 | 14 | M24×1.5 | 30 |
| 31-023-1019 | 31-023-2019 | | M27×2 | 400 | 20 | 32 | 16 | M30×2 | 36 |
| 31-023-1020 | 31-023-2020 | | M33×2 | 400 | 25 | 40 | 18 | M36×2 | 46 |
| 31-023-1021 | 31-023-2021 | | M42×2 | 400 | 30 | 50 | 20 | M42×2 | 50 |
| 31-023-1022 | 31-023-2022 | | M48×2 | 315 | 38 | 55 | 22 | M52×2 | 60 |

| | | Swivel Connector (BSPP) ED sealing | | | | | | | |
|---|-----------------|---|--------|----------|---------|---------|--------|---------|----|
|  | | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | G | PN (BAR) | D1 (mm) | d2 (mm) | i (mm) | d1 | S2 |
| 31-1024-001 | 31-2024-001 | L | G1/8A | 315 | 06 | 14 | 8 | M12×1.5 | 14 |
| 31-1024-002 | 31-2024-002 | | G1/4A | 315 | 08 | 19 | 12 | M14×1.5 | 17 |
| 31-1024-003 | 31-2024-003 | | G1/4A | 315 | 10 | 19 | 12 | M16×1.5 | 19 |
| 31-1024-004 | 31-2024-004 | | G3/8A | 315 | 10 | 22 | 12 | M16×1.5 | 19 |
| 31-1024-005 | 31-2024-005 | | G3/8A | 315 | 12 | 22 | 12 | M18×1.5 | 22 |
| 31-1024-006 | 31-2024-006 | | G1/4A | 315 | 12 | 19 | 12 | M18×1.5 | 22 |
| 31-1024-007 | 31-2024-007 | | G1/2A | 315 | 12 | 27 | 14 | M18×1.5 | 22 |
| 31-1024-008 | 31-2024-008 | | G1/2A | 315 | 15 | 27 | 14 | M22×1.5 | 27 |
| 31-1024-009 | 31-2024-009 | | G1/2A | 315 | 18 | 27 | 14 | M26×1.5 | 32 |
| 31-1024-010 | 31-2024-010 | | G3/4A | 160 | 18 | 32 | 16 | M26×1.5 | 32 |
| 31-1024-011 | 31-2024-011 | | G3/4A | 160 | 22 | 32 | 16 | M30×2 | 36 |
| 31-1024-012 | 31-2024-012 | | G1A | 160 | 28 | 40 | 18 | M36×2 | 41 |
| 31-1024-013 | 31-2024-013 | S | G11/4A | 160 | 35 | 50 | 20 | M45×2 | 50 |
| 31-1024-014 | 31-2024-014 | | G11/2A | 160 | 42 | 55 | 22 | M52×2 | 60 |
| 31-1024-015 | 31-2024-015 | | G1/4A | 630 | 06 | 19 | 12 | M14×1.5 | 17 |
| 31-1024-016 | 31-2024-016 | | G1/4A | 630 | 08 | 19 | 12 | M16×1.5 | 19 |
| 31-1024-017 | 31-2024-017 | | G3/8A | 630 | 10 | 22 | 12 | M18×1.5 | 22 |
| 31-1024-018 | 31-2024-018 | | G3/8A | 630 | 12 | 22 | 12 | M20×1.5 | 24 |
| 31-1024-019 | 31-2024-019 | | G1/4A | 630 | 12 | 19 | 12 | M20×1.5 | 24 |
| 31-1024-020 | 31-2024-020 | | G1/2A | 630 | 12 | 27 | 14 | M20×1.5 | 24 |
| 31-1024-021 | 31-2024-021 | | G1/2A | 630 | 14 | 27 | 14 | M22×1.5 | 27 |
| 31-1024-022 | 31-2024-022 | | G1/2A | 400 | 16 | 27 | 14 | M24×1.5 | 30 |
| 31-1024-023 | 31-2024-023 | | G3/4A | 400 | 20 | 32 | 16 | M30×2 | 36 |
| 31-1024-024 | 31-2024-024 | | G1A | 400 | 25 | 40 | 18 | M36×2 | 46 |
| 31-1024-025 | 31-2024-025 | | G11/4A | 400 | 30 | 50 | 20 | M42×2 | 50 |
| 31-1024-026 | 31-2024-026 | | G11/2A | 315 | 38 | 55 | 22 | M52×2 | 60 |

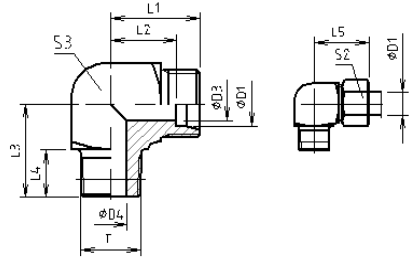
| Swivel Connector (NPT) | | | | | | | | | |
|---|-----------------|--------|----------------|----------|---------|--------|---------|----|----|
|  | | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | NPT | PN (BAR) | D1 (mm) | i (mm) | d1 | S1 | S2 |
| 31-1025-001 | 31-2025-001 | L | NPT1/8-27 | 315 | 06 | 10 | M12×1.5 | 11 | 14 |
| 31-1025-002 | 31-2025-002 | | NPT1/4-18 | 315 | 08 | 15 | M14×1.5 | 14 | 17 |
| 31-1025-003 | 31-2025-003 | | NPT1/4-18 | 315 | 10 | 15 | M16×1.5 | 14 | 19 |
| 31-1025-004 | 31-2025-004 | | NPT3/8-18 | 315 | 12 | 15.3 | M18×1.5 | 19 | 22 |
| 31-1025-005 | 31-2025-005 | | NPT1/2-14 | 315 | 15 | 20 | M22×1.5 | 22 | 27 |
| 31-1025-006 | 31-2025-006 | | NPT1/2-14 | 315 | 18 | 20 | M26×1.5 | 24 | 32 |
| 31-1025-007 | 31-2025-007 | | NPT3/4-14 | 160 | 22 | 20 | M30×2 | 27 | 36 |
| 31-1025-008 | 31-2025-008 | | NPT1-11 1/2 | 160 | 28 | 25 | M36×2 | 36 | 41 |
| 31-1025-009 | 31-2025-009 | | NPT11/4-11 1/2 | 160 | 35 | 25.5 | M45×2 | 46 | 50 |
| 31-1025-010 | 31-2025-010 | | NPT11/2-11 1/2 | 160 | 42 | 26 | M52×2 | 50 | 60 |
| 31-1025-011 | 31-2025-011 | S | NPT1/4-18 | 630 | 06 | 15 | M14×1.5 | 14 | 17 |
| 31-1025-012 | 31-2025-012 | | NPT1/4-18 | 630 | 08 | 15 | M16×1.5 | 14 | 19 |
| 31-1025-013 | 31-2025-013 | | NPT3/8-18 | 630 | 10 | 15.3 | M18×1.5 | 19 | 22 |
| 31-1025-014 | 31-2025-014 | | NPT3/8-18 | 630 | 12 | 15.3 | M20×1.5 | 19 | 24 |
| 31-1025-015 | 31-2025-015 | | NPT1/2-14 | 630 | 14 | 20 | M22×1.5 | 22 | 27 |
| 31-1025-016 | 31-2025-016 | | NPT1/2-14 | 400 | 16 | 20 | M24×1.5 | 22 | 30 |
| 31-1025-017 | 31-2025-017 | | NPT3/4-14 | 400 | 20 | 20 | M30×2 | 27 | 36 |
| 31-1025-018 | 31-2025-018 | | NPT1-11 1/2 | 400 | 25 | 25 | M36×2 | 36 | 46 |
| 31-1025-019 | 31-2025-019 | | NPT11/4-11 1/2 | 400 | 30 | 25.5 | M42×2 | 46 | 50 |
| 31-1025-020 | 31-2025-020 | | NPT11/2-11 1/2 | 315 | 38 | 26 | M52×2 | 50 | 60 |



Male Stud Elbow (Metric Tapper)

| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | L3 (mm) | L4 (mm) | S2 |
|----------------|-----------------|--------|-------------|----------|---------|---------|---------|----|
| 31-1026-001 | 31-2026-001 | LL | M8×1 tap | 100 | 04 | 17 | 9.5 | 10 |
| 31-1026-002 | 31-2026-002 | | M10×1 tap | 100 | 06 | 17 | 9.5 | 12 |
| 31-1026-003 | 31-2026-003 | | M10×1 tap | 100 | 08 | 20 | 9.5 | 14 |
| 31-1026-004 | 31-2026-004 | L | M10×1 tap | 315 | 06 | 20 | 9.5 | 14 |
| 31-1026-005 | 31-2026-005 | | M12×1.5 tap | 315 | 08 | 26 | 14 | 17 |
| 31-1026-006 | 31-2026-006 | | M14×1.5 tap | 315 | 10 | 27 | 14 | 19 |
| 31-1026-007 | 31-2026-007 | | M16×1.5 tap | 315 | 12 | 28 | 14 | 22 |
| 31-1026-008 | 31-2026-008 | | M18×1.5 tap | 315 | 15 | 32 | 14 | 27 |
| 31-1026-009 | 31-2026-009 | | M22×1.5 tap | 315 | 18 | 36 | 17 | 32 |
| 31-1026-010 | 31-2026-010 | S | M12×1.5 tap | 400 | 06 | 26 | 14 | 17 |
| 31-1026-011 | 31-2026-011 | | M14×1.5 tap | 400 | 08 | 27 | 14 | 19 |
| 31-1026-012 | 31-2026-012 | | M16×1.5 tap | 400 | 10 | 28 | 14 | 22 |
| 31-1026-013 | 31-2026-013 | | M18×1.5 tap | 400 | 12 | 28 | 14 | 24 |
| 31-1026-014 | 31-2026-014 | | M20×1.5 tap | 400 | 14 | 32 | 14 | 27 |
| 31-1026-015 | 31-2026-015 | | M22×1.5 tap | 400 | 16 | 32 | 14 | 30 |
| 31-1026-016 | 31-2026-016 | LL | M8×1 tap | 100 | 6 | | | 12 |
| 31-1026-018 | 31-2026-017 | | M6×1 tap | 100 | 6 | | | 12 |
| 31-1026-019 | 31-2026-018 | | M6×1 tap | 100 | 4 | | | 10 |
| 31-1026-020 | 31-2026-019 | | M10×1 tap | 100 | 4 | | | 10 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

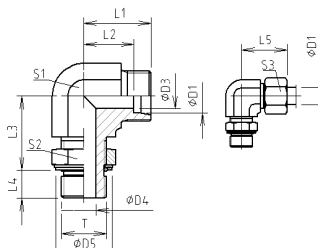
| | | Male Stud Elbow (BSPT) | | | | | | |
|---|-----------------|-------------------------------|------|----------|---------|---------|---------|----|
|  | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | L3 (mm) | L4 (mm) | S2 |
| 31-1028-001 | 31-2028-001 | LL | R1/8 | 100 | 04 | 17 | 9.5 | 10 |
| 31-1028-002 | 31-2028-002 | | R1/8 | 100 | 06 | 17 | 9.5 | 12 |
| 31-1028-003 | 31-2028-003 | | R1/8 | 100 | 08 | 20 | 9.5 | 14 |
| 31-1028-004 | 31-2028-004 | | R1/4 | 100 | 10 | 23 | 14 | 17 |
| 31-1028-005 | 31-2028-005 | | R1/4 | 100 | 12 | 23 | 14 | 19 |
| 31-1028-006 | 31-2028-006 | L | R1/8 | 315 | 06 | 20 | 9.5 | 14 |
| 31-1028-007 | 31-2028-007 | | R1/4 | 315 | 06 | 26 | 12 | 14 |
| 31-1028-008 | 31-2028-008 | | R1/4 | 315 | 08 | 26 | 14 | 17 |
| 31-1028-009 | 31-2028-009 | | R1/8 | 315 | 08 | 26 | 9.5 | 17 |
| 31-1028-010 | 31-2028-010 | | R3/8 | 315 | 08 | 28 | 14 | 17 |
| 31-1028-011 | 31-2028-011 | | R1/4 | 315 | 10 | 27 | 14 | 19 |
| 31-1028-012 | 31-2028-012 | | R3/8 | 315 | 10 | 28 | 14 | 19 |
| 31-1028-013 | 31-2028-013 | | R3/8 | 315 | 12 | 28 | 14 | 22 |
| 31-1028-014 | 31-2028-014 | | R1/4 | 315 | 12 | 27 | 14 | 22 |
| 31-1028-015 | 31-2028-015 | | R1/2 | 315 | 12 | 34 | 14 | 22 |
| 31-1028-016 | 31-2028-016 | | R1/2 | 315 | 15 | 34 | 14 | 27 |
| 31-1028-017 | 31-2028-017 | | R1/2 | 315 | 18 | 36 | 17 | 32 |
| 31-1028-018 | 31-2028-018 | S | R1/4 | 400 | 06 | 26 | 14 | 17 |
| 31-1028-019 | 31-2028-019 | | R3/8 | 400 | 06 | 20 | 12 | 17 |
| 31-1028-020 | 31-2028-020 | | R1/4 | 400 | 08 | 27 | 14 | 19 |
| 31-1028-021 | 31-2028-021 | | R3/8 | 400 | 08 | 28 | 12 | 19 |
| 31-1028-022 | 31-2028-022 | | R3/8 | 400 | 10 | 28 | 14 | 22 |
| 31-1028-023 | 31-2028-023 | | R1/4 | 400 | 10 | 28 | 14 | 22 |
| 31-1028-024 | 31-2028-024 | | R1/2 | 400 | 10 | 32 | 14 | 22 |
| 31-1028-025 | 31-2028-025 | | R3/8 | 400 | 12 | 28 | 14 | 24 |
| 31-1028-026 | 31-2028-026 | | R1/2 | 400 | 12 | 32 | 14 | 24 |
| 31-1028-027 | 31-2028-027 | | R1/2 | 400 | 14 | 32 | 14 | 27 |
| 31-1028-028 | 31-2028-028 | R1/2 | 400 | 16 | 32 | 17 | 30 | |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

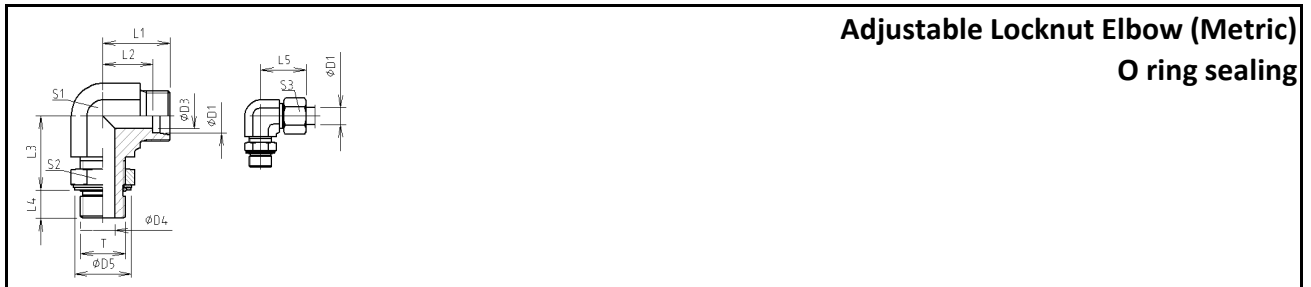


| | | Male Stud Elbow (NPT) | | | | | | |
|----------------|-----------------|------------------------------|----------------|-----------|---------|---------|---------|----|
| | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | L3 (mm) | L4 (mm) | S2 |
| 31-1029-001 | 31-2029-001 | LL | NPT1/8-27 | 100 | 04 | 17 | 10 | 11 |
| 31-1029-002 | 31-2029-002 | | NPT1/8-27 | 100 | 06 | 17 | 10 | 11 |
| 31-1029-003 | 31-2029-003 | | NPT1/8-27 | 100 | 08 | 20 | 10 | 12 |
| 31-1029-004 | 31-2029-004 | L | NPT1/8-27 | 315 | 06 | 20 | 10 | 12 |
| 31-1029-005 | 31-2029-005 | | NPT1/4-18 | 315 | 06 | 26 | 15 | 14 |
| 31-1029-006 | 31-2029-006 | | NPT3/8-18 | 315 | 06 | 28 | 15.3 | 14 |
| 31-1029-007 | 31-2029-007 | | NPT1/8-27 | 315 | 08 | 26 | 10 | 14 |
| 31-1029-008 | 31-2029-008 | | NPT1/4-18 | 315 | 08 | 26 | 15 | 14 |
| 31-1029-009 | 31-2029-009 | | NPT1/4-18 | 315 | 10 | 27 | 15 | 17 |
| 31-1029-010 | 31-2029-010 | | NPT3/8-18 | 315 | 10 | 28 | 15.3 | 19 |
| 31-1029-011 | 31-2029-011 | | NPT1/4-18 | 315 | 12 | 28 | 15 | 19 |
| 31-1029-012 | 31-2029-012 | | NPT3/8-18 | 315 | 12 | 28 | 15.3 | 19 |
| 31-1029-013 | 31-2029-013 | | NPT1/2-14 | 315 | 12 | 34 | 20 | 19 |
| 31-1029-014 | 31-2029-014 | | NPT1/2-14 | 315 | 15 | 34 | 20 | 19 |
| 31-1029-015 | 31-2029-015 | | NPT1/2-14 | 315 | 18 | 36 | 20 | 24 |
| 31-1029-016 | 31-2029-016 | | NPT3/4-14 | 160 | 22 | 42 | 20 | 27 |
| 31-1029-017 | 31-2029-017 | | NPT1-11 1/2 | 160 | 28 | 48 | 25 | 36 |
| 31-1029-018 | 31-2029-018 | | NPT11/4-11 1/2 | 160 | 35 | 54 | 25.5 | 41 |
| 31-1029-019 | 31-2029-019 | | NPT11/2-11 1/2 | 160 | 42 | 61 | 26 | 50 |
| 31-1029-020 | 31-2029-020 | | S | NPT1/4-18 | 630 | 06 | 26 | 15 |
| 31-1029-021 | 31-2029-021 | NPT1/2-14 | | 630 | 06 | 34 | 20 | 19 |
| 31-1029-022 | 31-2029-022 | NPT1/4-18 | | 630 | 08 | 27 | 15 | 17 |
| 31-1029-023 | 31-2029-023 | NPT3/8-18 | | 630 | 08 | 28 | 15.3 | 19 |
| 31-1029-024 | 31-2029-024 | NPT1/2-14 | | 630 | 08 | 34 | 20 | 19 |
| 31-1029-025 | 31-2029-025 | NPT1/4-18 | | 630 | 10 | 28 | 15 | 19 |
| 31-1029-026 | 31-2029-026 | NPT3/8-18 | | 630 | 10 | 28 | 15.3 | 19 |
| 31-1029-027 | 31-2029-027 | NPT1/4-18 | | 630 | 12 | 29 | 15 | 24 |
| 31-1029-028 | 31-2029-028 | NPT3/8-18 | | 630 | 12 | 28 | 15.3 | 22 |
| 31-1029-029 | 31-2029-029 | NPT1/2-14 | | 630 | 12 | 34 | 20 | 19 |
| 31-1029-030 | 31-2029-030 | NPT1/2-14 | | 630 | 14 | 34 | 20 | 19 |
| 31-1029-031 | 31-2029-031 | NPT1/2-14 | | 400 | 16 | 36 | 20 | 24 |
| 31-1029-032 | 31-2029-032 | NPT3/4-11 | | 400 | 20 | 42 | 20 | 27 |
| 31-1029-033 | 31-2029-033 | NPT1-11 1/2 | | 400 | 25 | 48 | 25 | 36 |
| 31-1029-034 | 31-2029-034 | NPT11/4-11 1/2 | | 400 | 30 | 54 | 25.5 | 41 |
| 31-1029-035 | 31-2029-035 | NPT11/2-11 1/2 | 315 | 38 | 61 | 26 | 50 | |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| | | Adjustable Locknut Elbow (Metric) | | | | | | |
|----------------|-----------------|---|-----------|----------|---------|---------|---------|----|
| | | O ring sealing | | | | | | |
| | |  | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | L3 (mm) | L4 (mm) | S2 |
| 31-1030-001 | 31-2030-001 | LL | M8 x 1 | 250 | 04 | 18 | 8.5 | 10 |
| 31-1030-002 | 31-2030-002 | | M10 x 1 | 250 | 04 | 18 | 8.5 | 10 |
| 31-1030-003 | 31-2030-003 | | M10 x 1 | 250 | 06 | 18 | 8.5 | 12 |
| 31-1030-004 | 31-2030-004 | | M12 x 1.5 | 250 | 06 | 21 | 11 | 12 |
| 31-1030-005 | 31-2030-005 | L | M10 x 1 | 315 | 06 | 20 | 7 | 14 |
| 31-1030-006 | 31-2030-006 | | M12 x 1.5 | 315 | 08 | 22 | 10 | 17 |
| 31-1030-007 | 31-2030-007 | | M14 x 1.5 | 315 | 10 | 25 | 10 | 19 |
| 31-1030-008 | 31-2030-008 | | M16 x 1.5 | 315 | 12 | 26 | 10 | 22 |
| 31-1030-009 | 31-2030-009 | | M18 x 1.5 | 315 | 15 | 30 | 11 | 27 |
| 31-1030-010 | 31-2030-010 | | M22 x 1.5 | 315 | 18 | 33 | 12 | 32 |
| 31-1030-011 | 31-2030-011 | | M27 x 2 | 160 | 22 | 35 | 14 | 36 |
| 31-1030-012 | 31-2030-012 | | M33 x 2 | 160 | 28 | 38 | 14 | 41 |
| 31-1030-013 | 31-2030-013 | | M42 x 2 | 160 | 35 | 48 | 14 | 50 |
| 31-1030-014 | 31-2030-014 | | M48 x 2 | 160 | 42 | 49 | 16 | 60 |
| 31-1030-015 | 31-2030-015 | S | M12 x 1.5 | 400 | 06 | 22 | 10 | 17 |
| 31-1030-016 | 31-2030-016 | | M14 x 1.5 | 400 | 08 | 26 | 10 | 19 |
| 31-1030-017 | 31-2030-017 | | M16 x 1.5 | 400 | 10 | 27 | 11 | 22 |
| 31-1030-018 | 31-2030-018 | | M18 x 1.5 | 400 | 12 | 31 | 12 | 24 |
| 31-1030-019 | 31-2030-019 | | M22 x 1.5 | 400 | 16 | 35 | 14 | 30 |
| 31-1030-020 | 31-2030-020 | | M27 x 2 | 400 | 20 | 39 | 16 | 36 |
| 31-1030-021 | 31-2030-021 | | M33 x 2 | 315 | 25 | 44 | 16 | 46 |
| 31-1030-022 | 31-2030-022 | | M42 x 2 | 250 | 30 | 51 | 17 | 50 |
| 31-1030-023 | 31-2030-023 | | M48 x 2 | 200 | 38 | 54 | 19 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | L3 (mm) | L4 (mm) | S2 |
|----------------|-----------------|--------|--------|----------|---------|---------|---------|----|
| 31-1031-001 | 31-2031-001 | LL | G1/8 | 250 | 04 | 20 | 6.5 | 10 |
| 31-1031-002 | 31-2031-002 | | G1/8 | 250 | 06 | 20 | 6.5 | 12 |
| 31-1031-003 | 31-2031-003 | L | G1/8 | 315 | 06 | 19 | 7 | 14 |
| 31-1031-004 | 31-2031-004 | | G1/4 | 315 | 08 | 23 | 9 | 17 |
| 31-1031-005 | 31-2031-005 | | G1/4 | 315 | 10 | 25 | 9 | 19 |
| 31-1031-006 | 31-2031-006 | | G3/8 | 250 | 12 | 28 | 9 | 22 |
| 31-1031-007 | 31-2031-007 | | G1/2 | 250 | 15 | 30 | 13 | 27 |
| 31-1031-008 | 31-2031-008 | | G1/2 | 250 | 18 | 36 | 13 | 32 |
| 31-1031-009 | 31-2031-009 | | G3/4 | 160 | 22 | 36 | 13 | 36 |
| 31-1031-010 | 31-2031-010 | | G1 | 160 | 28 | 44 | 15 | 41 |
| 31-1031-011 | 31-2031-011 | | G1 1/4 | 160 | 35 | 50 | 15 | 50 |
| 31-1031-012 | 31-2031-012 | | G1 1/2 | 160 | 42 | 52 | 15 | 60 |
| 31-1031-013 | 31-2031-013 | S | G1/4 | 315 | 06 | 23 | 9 | 17 |
| 31-1031-014 | 31-2031-014 | | G1/4 | 315 | 08 | 27 | 9 | 19 |
| 31-1031-015 | 31-2031-015 | | G3/8 | 250 | 10 | 29 | 9 | 22 |
| 31-1031-016 | 31-2031-016 | | G3/8 | 250 | 12 | 29 | 9 | 24 |
| 31-1031-017 | 31-2031-017 | | G1/2 | 250 | 16 | 36 | 13 | 30 |
| 31-1031-018 | 31-2031-018 | | G3/4 | 250 | 20 | 39 | 12 | 36 |
| 31-1031-019 | 31-2031-019 | | G1 | 250 | 25 | 44 | 14 | 46 |
| 31-1031-020 | 31-2031-020 | | G1 1/4 | 160 | 30 | 49 | 15 | 50 |
| 31-1031-021 | 31-2031-021 | | G1 1/2 | 160 | 38 | 55 | 15 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



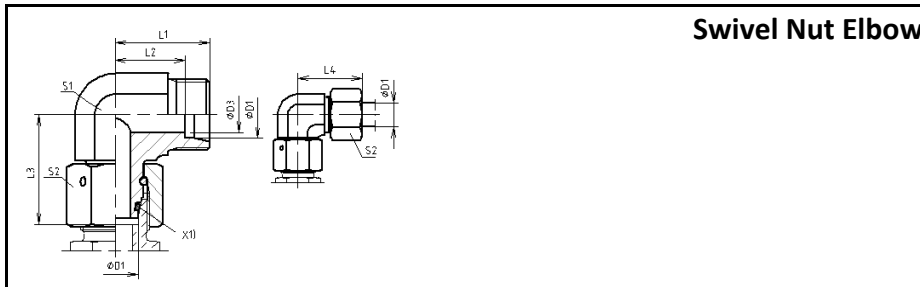
| | | Banjo Elbow (Metric) DKA sealing | | | | | | |
|----------------|-----------------|---|---------|----------|---------|---------|---------|----|
| | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | D5 (mm) | L4 (mm) | S3 |
| 31-1032-001 | 31-2032-001 | LL | M8x1 | 100 | 04 | 12.5 | 6 | 10 |
| 31-1032-002 | 31-2032-002 | | M10x1 | 100 | 06 | 14 | 6 | 12 |
| 31-1032-003 | 31-2032-003 | | M10x1 | 100 | 08 | 14 | 6 | 14 |
| 31-1032-004 | 31-2032-004 | L | M10x1 | 250 | 06 | 14 | 6 | 14 |
| 31-1032-005 | 31-2032-005 | | M12x1.5 | 250 | 08 | 17 | 9 | 17 |
| 31-1032-006 | 31-2032-006 | | M14x1.5 | 250 | 10 | 19 | 9 | 19 |
| 31-1032-007 | 31-2032-007 | | M16x1.5 | 160 | 12 | 21 | 9 | 22 |
| 31-1032-008 | 31-2032-008 | | M18x1.5 | 160 | 15 | 23 | 9 | 27 |
| 31-1032-009 | 31-2032-009 | | M22x1.5 | 160 | 18 | 27 | 11 | 32 |
| 31-1032-010 | 31-2032-010 | | M26x1.5 | 160 | 22 | 31 | 13 | 36 |
| 31-1032-011 | 31-2032-011 | S | M12x1.5 | 250 | 06 | 17 | 9 | 17 |
| 31-1032-012 | 31-2032-012 | | M14x1.5 | 250 | 08 | 19 | 9 | 19 |
| 31-1032-013 | 31-2032-013 | | M16x1.5 | 250 | 10 | 21 | 9 | 22 |
| 31-1032-014 | 31-2032-014 | | M18x1.5 | 160 | 12 | 23 | 9 | 24 |
| 31-1032-015 | 31-2032-015 | | M20x1.5 | 160 | 14 | 25 | 11 | 27 |
| 31-1032-016 | 31-2032-016 | | M22x1.5 | 160 | 16 | 27 | 11 | 30 |
| 31-1032-017 | 31-2032-017 | | M27x2 | 160 | 20 | 32 | 13 | 36 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



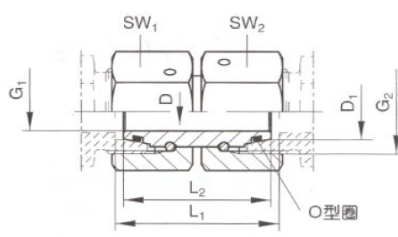
| | | Banjo Elbow (BSPP) DKA sealing | | | | | | |
|----------------|-----------------|---|------|----------|---------|---------|---------|----|
| | | | | | | | | |
| Order No. (CS) | Order No. (304) | Series | T | PN (BAR) | D1 (mm) | D5 (mm) | L4 (mm) | S3 |
| 31-1033-001 | 31-2033-001 | LL | G1/8 | 100 | 04 | 14 | 6 | 10 |
| 31-1033-002 | 31-2033-002 | | G1/8 | 100 | 06 | 14 | 6 | 12 |
| 31-1033-003 | 31-2033-003 | | G1/8 | 100 | 08 | 14 | 6 | 14 |
| 31-1033-004 | 31-2033-004 | L | G1/8 | 250 | 06 | 14 | 6 | 14 |
| 31-1033-005 | 31-2033-005 | | G1/4 | 250 | 08 | 18 | 9 | 17 |
| 31-1033-006 | 31-2033-006 | | G1/4 | 250 | 10 | 18 | 9 | 19 |
| 31-1033-007 | 31-2033-007 | | G3/8 | 160 | 12 | 22 | 9 | 22 |
| 31-1033-008 | 31-2033-008 | | G1/2 | 160 | 15 | 26 | 11 | 27 |
| 31-1033-009 | 31-2033-009 | | G1/2 | 160 | 18 | 26 | 11 | 32 |
| 31-1033-010 | 31-2033-010 | | G3/4 | 160 | 22 | 32 | 13 | 36 |
| 31-1033-011 | 31-2033-011 | S | G1/4 | 250 | 06 | 18 | 9 | 17 |
| 31-1033-012 | 31-2033-012 | | G1/4 | 250 | 08 | 18 | 9 | 19 |
| 31-1033-013 | 31-2033-013 | | G3/8 | 250 | 10 | 22 | 9 | 22 |
| 31-1033-014 | 31-2033-014 | | G3/8 | 160 | 12 | 22 | 9 | 24 |
| 31-1033-015 | 31-2033-015 | | G1/2 | 160 | 14 | 26 | 11 | 27 |
| 31-1033-016 | 31-2033-016 | | G1/2 | 160 | 16 | 26 | 11 | 30 |
| 31-1033-017 | 31-2033-017 | | G3/4 | 160 | 20 | 32 | 13 | 36 |

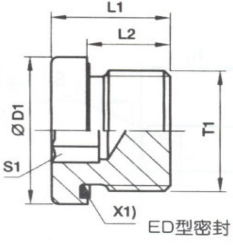
If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

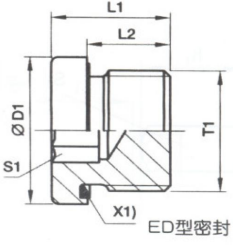


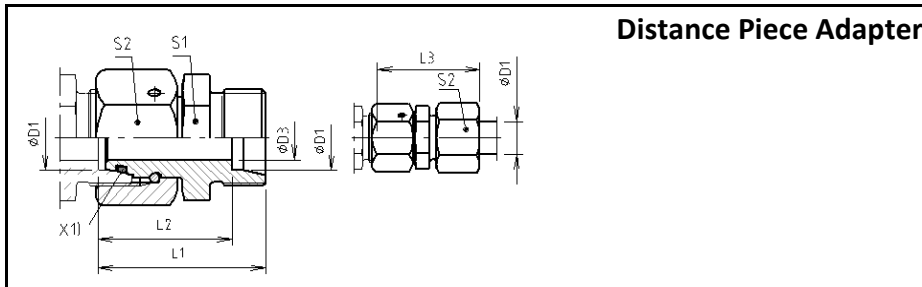
| Order No. (CS) | Order No. (304) | Series | D1 (mm) | PN (BAR) | S2 |
|----------------|-----------------|--------|---------|----------|----|
| 31-1037-001 | 31-2037-001 | L | 06 | 315 | 14 |
| 31-1037-002 | 31-2037-002 | | 08 | 315 | 17 |
| 31-1037-003 | 31-2037-003 | | 10 | 315 | 19 |
| 31-1037-004 | 31-2037-004 | | 12 | 315 | 22 |
| 31-1037-005 | 31-2037-005 | | 15 | 315 | 27 |
| 31-1037-006 | 31-2037-006 | | 18 | 315 | 32 |
| 31-1037-007 | 31-2037-007 | | 22 | 160 | 36 |
| 31-1037-008 | 31-2037-008 | | 28 | 160 | 41 |
| 31-1037-009 | 31-2037-009 | | 35 | 160 | 50 |
| 31-1037-010 | 31-2037-010 | | 42 | 160 | 60 |
| 31-1037-011 | 31-2037-011 | S | 06 | 630 | 17 |
| 31-1037-012 | 31-2037-012 | | 08 | 630 | 19 |
| 31-1037-013 | 31-2037-013 | | 10 | 630 | 22 |
| 31-1037-014 | 31-2037-014 | | 12 | 630 | 24 |
| 31-1037-015 | 31-2037-015 | | 14 | 630 | 27 |
| 31-1037-016 | 31-2037-016 | | 16 | 400 | 30 |
| 31-1037-017 | 31-2037-017 | | 20 | 400 | 36 |
| 31-1037-018 | 31-2037-018 | | 25 | 400 | 46 |
| 31-1037-019 | 31-2037-019 | | 30 | 400 | 50 |
| 31-1037-020 | 31-2037-020 | | 38 | 315 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| Swivel Union | | | | | | |
|---|-----------------|--------|---------|----------|---------|----|
|  | | | | | | |
| Order No. (CS) | Order No. (304) | Series | D1 (mm) | PN (BAR) | G1/G2 | SW |
| 31-1038-001 | 31-2038-001 | L | 06 | 315 | M12x1.5 | 14 |
| 31-1038-002 | 31-2038-002 | | 08 | 315 | M14x1.5 | 17 |
| 31-1038-003 | 31-2038-003 | | 10 | 315 | M16x1.5 | 19 |
| 31-1038-004 | 31-2038-004 | | 12 | 315 | M18x1.5 | 22 |
| 31-1038-005 | 31-2038-005 | | 15 | 315 | M22x1.5 | 27 |
| 31-1038-006 | 31-2038-006 | | 18 | 315 | M26x1.5 | 32 |
| 31-1038-007 | 31-2038-007 | | 22 | 160 | M30x2 | 36 |
| 31-1038-008 | 31-2038-008 | | 28 | 160 | M36x2 | 41 |
| 31-1038-009 | 31-2038-009 | | 35 | 160 | M45x2 | 50 |
| 31-1038-010 | 31-2038-010 | | 42 | 160 | M52x2 | 60 |
| 31-1038-011 | 31-2038-011 | S | 06 | 630 | M14x1.5 | 17 |
| 31-1038-012 | 31-2038-012 | | 08 | 630 | M16x1.5 | 19 |
| 31-1038-013 | 31-2038-013 | | 10 | 630 | M18x1.5 | 22 |
| 31-1038-014 | 31-2038-014 | | 12 | 630 | M20x1.5 | 24 |
| 31-1038-015 | 31-2038-015 | | 14 | 630 | M22x1.5 | 27 |
| 31-1038-016 | 31-2038-016 | | 16 | 400 | M24x1.5 | 30 |
| 31-1038-017 | 31-2038-017 | | 20 | 400 | M30x2 | 36 |
| 31-1038-018 | 31-2038-018 | | 25 | 400 | M36x2 | 46 |
| 31-1038-019 | 31-2038-019 | | 30 | 400 | M42x2 | 50 |
| 31-1038-020 | 31-2038-020 | | 38 | 315 | M52x2 | 60 |

|  | | | | | |
|---|-----------------|---------|---------|---------|----|
| Order No. (CS) | Order No. (304) | T1 | L2 (mm) | D1 (mm) | S1 |
| 31-1042-001 | 31-2042-001 | M8x1 | | | |
| 31-1042-002 | 31-2042-002 | M10x1 | 8 | 14 | 5 |
| 31-1042-003 | 31-2042-003 | M12x1.5 | 12 | 17 | 6 |
| 31-1042-004 | 31-2042-004 | M14x1.5 | 12 | 19 | 6 |
| 31-1042-005 | 31-2042-005 | M16x1.5 | 12 | 22 | 8 |
| 31-1042-006 | 31-2042-006 | M18x1.5 | 12 | 23.9 | 8 |
| 31-1042-007 | 31-2042-007 | M20x1.5 | 14 | 25.9 | 10 |
| 31-1042-008 | 31-2042-008 | M22x1.5 | 14 | 27 | 10 |
| 31-1042-009 | 31-2042-009 | M26x1.5 | 16 | 31.9 | 12 |
| 31-1042-010 | 31-2042-010 | M27x2 | 16 | 40 | 12 |
| 31-1042-011 | 31-2042-011 | M33x2 | 16 | 40 | 17 |
| 31-1042-012 | 31-2042-012 | M42x2 | 16 | 49.9 | 22 |
| 31-1042-013 | 31-2042-013 | M48x2 | 16 | 55 | 24 |

|  | | Plug (BSPP) ED sealing | | | |
|---|-----------------|---|---------|---------|----|
| Order No. (CS) | Order No. (304) | T1 | L2 (mm) | D1 (mm) | S1 |
| 31-1043-001 | 31-2043-001 | G1/8A | 8 | 14 | 5 |
| 31-1043-002 | 31-2043-002 | G1/4A | 12 | 19 | 6 |
| 31-1043-003 | 31-2043-003 | G3/8A | 12 | 22 | 8 |
| 31-1043-004 | 31-2043-004 | G1/2A | 14 | 27 | 10 |
| 31-1043-005 | 31-2043-005 | G3/4A | 16 | 40 | 12 |
| 31-1043-006 | 31-2043-006 | G1A | 16 | 40 | 17 |
| 31-1043-007 | 31-2043-007 | G11/4A | 16 | 49.9 | 22 |
| 31-1043-008 | 31-2043-008 | G11/2A | 16 | 55 | 24 |



| Order No. (CS) | Order No. (304) | Series | D1 (mm) | PN (BAR) | S2 |
|----------------|-----------------|--------|---------|----------|----|
| 31-1055-001 | 31-2055-001 | L | 6 | 315 | 14 |
| 31-1055-002 | 31-2055-002 | | 8 | 315 | 17 |
| 31-1055-003 | 31-2055-003 | | 10 | 315 | 19 |
| 31-1055-004 | 31-2055-004 | | 12 | 315 | 22 |
| 31-1055-005 | 31-2055-005 | | 15 | 315 | 27 |
| 31-1055-006 | 31-2055-006 | | 18 | 315 | 32 |
| 31-1055-007 | 31-2055-007 | | 22 | 160 | 36 |
| 31-1055-008 | 31-2055-008 | | 28 | 160 | 41 |
| 31-1055-009 | 31-2055-009 | | 35 | 160 | 50 |
| 31-1055-010 | 31-2055-010 | | 42 | 160 | 60 |
| 31-1055-011 | 31-2055-011 | S | 6 | 630 | 17 |
| 31-1055-012 | 31-2055-012 | | 8 | 630 | 19 |
| 31-1055-013 | 31-2055-013 | | 10 | 630 | 22 |
| 31-1055-014 | 31-2055-014 | | 12 | 630 | 24 |
| 31-1055-015 | 31-2055-015 | | 16 | 630 | 30 |
| 31-1055-016 | 31-2055-016 | | 20 | 400 | 36 |
| 31-1055-017 | 31-2055-017 | | 25 | 400 | 46 |
| 31-1055-018 | 31-2055-018 | | 30 | 400 | 50 |
| 31-1055-019 | 31-2055-019 | | 38 | 400 | 60 |



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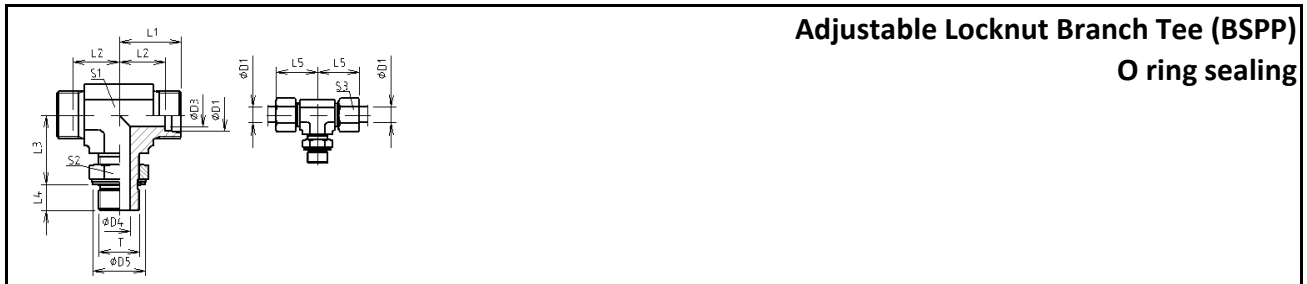
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Email: sales@inalube.com Website: http://www.inalube.com

| Standpipe Run Tee | | | | | | |
|-------------------|-----------------|--------|---------|----------|---------|----|
| | | | | | | |
| Order No. (CS) | Order No. (304) | Series | D1 (mm) | PN (BAR) | d1 | S2 |
| 31-1056-001 | 31-2056-001 | L | 6 | 315 | M12x1.5 | 14 |
| 31-1056-002 | 31-2056-002 | | 8 | 315 | M14x1.5 | 17 |
| 31-1056-003 | 31-2056-003 | | 10 | 315 | M16x1.5 | 19 |
| 31-1056-004 | 31-2056-004 | | 12 | 315 | M18x1.5 | 22 |
| 31-1056-005 | 31-2056-005 | | 15 | 315 | M22x1.5 | 27 |
| 31-1056-006 | 31-2056-006 | | 18 | 315 | M26x1.5 | 32 |
| 31-1056-007 | 31-2056-007 | | 22 | 160 | M30x2 | 36 |
| 31-1056-008 | 31-2056-008 | | 28 | 160 | M36x2 | 41 |
| 31-1056-009 | 31-2056-009 | | 35 | 160 | M45x2 | 50 |
| 31-1056-010 | 31-2056-010 | | 42 | 160 | M52x2 | 60 |
| 31-1056-011 | 31-2056-011 | S | 6 | 630 | M14x1.5 | 17 |
| 31-1056-012 | 31-2056-012 | | 8 | 630 | M16x1.5 | 19 |
| 31-1056-013 | 31-2056-013 | | 10 | 630 | M18x1.5 | 22 |
| 31-1056-014 | 31-2056-014 | | 12 | 630 | M20x1.5 | 24 |
| 31-1056-015 | 31-2056-015 | | 14 | 630 | M22x1.5 | 27 |
| 31-1056-016 | 31-2056-016 | | 16 | 400 | M24x1.5 | 30 |
| 31-1056-017 | 31-2056-017 | | 20 | 400 | M30x2 | 36 |
| 31-1056-018 | 31-2056-018 | | 25 | 400 | M36x2 | 46 |
| 31-1056-019 | 31-2056-019 | | 30 | 400 | M42x2 | 50 |
| 31-1056-020 | 31-2056-020 | | 38 | 315 | M52x2 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



Adjustable Locknut Branch Tee (BSPP)
O ring sealing

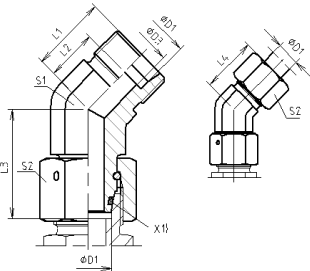
| Order No. (CS) | Order No. (304) | Series | T | D1 (mm) | PN (BAR) | D5 (mm) | L3 (mm) | L4 (mm) | S3 |
|----------------|-----------------|--------|---------|---------|----------|---------|---------|---------|----|
| 31-1058-001 | 31-2058-001 | L | G1/8 | 06 | 315 | 15 | 19 | 7 | 14 |
| 31-1058-002 | 31-2058-002 | | G1/4 | 08 | 315 | 20 | 23 | 9 | 17 |
| 31-1058-003 | 31-2058-003 | | G1/4 | 10 | 315 | 20 | 25 | 9 | 19 |
| 31-1058-004 | 31-2058-004 | | G3/8 | 12 | 250 | 23 | 28 | 9 | 22 |
| 31-1058-005 | 31-2058-005 | | G1/2 | 15 | 250 | 28 | 30 | 13 | 27 |
| 31-1058-006 | 31-2058-006 | | G1/2 | 18 | 250 | 28 | 36 | 13 | 32 |
| 31-1058-007 | 31-2058-007 | | G3/4 | 22 | 160 | 33 | 36 | 13 | 36 |
| 31-1058-008 | 31-2058-008 | | G1 | 28 | 160 | 41 | 44 | 15 | 41 |
| 31-1058-009 | 31-2058-009 | | G1 1/4 | 35 | 160 | 51 | 50 | 15 | 50 |
| 31-1058-010 | 31-2058-010 | | G 1 1/2 | 42 | 160 | 56 | 52 | 15 | 60 |
| 31-1058-011 | 31-2058-011 | S | G1/4 | 06 | 315 | 20 | 23 | 9 | 17 |
| 31-1058-012 | 31-2058-012 | | G1/4 | 08 | 315 | 20 | 27 | 9 | 19 |
| 31-1058-013 | 31-2058-013 | | G3/8 | 10 | 250 | 23 | 29 | 9 | 22 |
| 31-1058-014 | 31-2058-014 | | G3/8 | 12 | 250 | 23 | 29 | 9 | 24 |
| 31-1058-015 | 31-2058-015 | | G1/2 | 16 | 250 | 28 | 36 | 13 | 30 |
| 31-1058-016 | 31-2058-016 | | G3/4 | 20 | 250 | 33 | 39 | 12 | 36 |
| 31-1058-017 | 31-2058-017 | | G1 | 25 | 250 | 41 | 44 | 14 | 46 |
| 31-1058-018 | 31-2058-018 | | G1 1/4 | 30 | 160 | 51 | 49 | 15 | 50 |
| 31-1058-019 | 31-2058-019 | | G1 1/2 | 38 | 160 | 56 | 55 | 15 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.



| Order No. (CS) | Order No. (304) | Series | T | D1 (mm) | PN (BAR) | D5 (mm) | L3 (mm) | L4 (mm) | S3 |
|----------------|-----------------|--------|---------------|---------|----------|---------|---------|---------|----|
| 31-1059-001 | 31-2059-001 | L | 7/16-20 UNF | 06 | 315 | 16.5 | 19 | 10 | 14 |
| 31-1059-002 | 31-2059-002 | | 7/16-20 UNF | 08 | 315 | 18.3 | 19 | 10 | 17 |
| 31-1059-003 | 31-2059-003 | | 9/16-18 UNF | 10 | 315 | 20.2 | 24 | 10 | 19 |
| 31-1059-004 | 31-2059-004 | | 9/16-18 UNF | 12 | 315 | 25.7 | 25 | 11 | 22 |
| 31-1059-005 | 31-2059-005 | | 3/4-16 UNF | 12 | 315 | 25.7 | 25 | 13 | 22 |
| 31-1059-006 | 31-2059-006 | | 3/4-16 UNF | 15 | 315 | 29.3 | 28 | 13 | 27 |
| 31-1059-007 | 31-2059-007 | | 7/8-14 UNF | 15 | 315 | 29.3 | 28 | 15 | 27 |
| 31-1059-008 | 31-2059-008 | | 7/8-14 UNF | 18 | 315 | 29.3 | 32 | 15 | 32 |
| 31-1059-009 | 31-2059-009 | | 1 1/16-12 UNF | 18 | 315 | 29.3 | 32 | 17 | 32 |
| 31-1059-010 | 31-2059-010 | | 1 1/16-12 UNF | 22 | 160 | 36.7 | 35 | 17 | 36 |
| 31-1059-011 | 31-2059-011 | | 1 5/16-12 UNF | 28 | 160 | 44 | 42 | 17 | 41 |
| 31-1059-012 | 31-2059-012 | | 1 5/8-12 UNF | 35 | 160 | 55 | 46 | 17 | 50 |
| 31-1059-013 | 31-2059-013 | | 1 7/8-12 UNF | 42 | 160 | 55 | 47 | 17 | 60 |
| 31-1059-014 | 31-2059-014 | S | 7/16-20 UNF | 06 | 160 | 16.5 | 20 | 12 | 17 |
| 31-1059-015 | 31-2059-015 | | 9/16-18 UNF | 08 | 400 | 18.3 | 25 | 12 | 19 |
| 31-1059-016 | 31-2059-016 | | 9/16-18 UNF | 10 | 400 | 20.2 | 26 | 12 | 22 |
| 31-1059-017 | 31-2059-017 | | 3/4-16 UNF | 12 | 400 | 25.7 | 30 | 14 | 24 |
| 31-1059-018 | 31-2059-018 | | 7/8-14 UNF | 16 | 400 | 29.3 | 34 | 16 | 30 |
| 31-1059-019 | 31-2059-019 | | 1 1/16-12 UNF | 20 | 400 | 36.7 | 37 | 19 | 36 |
| 31-1059-020 | 31-2059-020 | | 1 1/16-12 UNF | 25 | 400 | 44 | 50 | 19 | 46 |
| 31-1059-021 | 31-2059-021 | | 1 5/8-12 UNF | 30 | 250 | 55 | 50 | 19 | 50 |
| 31-1059-022 | 31-2059-022 | | 1 7/8-12 UNF | 38 | 200 | 55 | 51 | 19 | 60 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

| Swivel Nut 45° Elbow | | | | | |
|---|-----------------|--------|---------|----------|----|
|  | | | | | |
| Order No. (CS) | Order No. (304) | Series | D1 (mm) | PN (BAR) | S2 |
| 31-1062-001 | 31-2062-001 | L | 06 | 315 | 14 |
| 31-1062-002 | 31-2062-002 | | 08 | 315 | 17 |
| 31-1062-003 | 31-2062-003 | | 10 | 315 | 19 |
| 31-1062-004 | 31-2062-004 | | 12 | 315 | 22 |
| 31-1062-005 | 31-2062-005 | | 15 | 315 | 27 |
| 31-1062-006 | 31-2062-006 | | 18 | 315 | 32 |
| 31-1062-007 | 31-2062-007 | | 22 | 160 | 36 |
| 31-1062-008 | 31-2062-008 | | 28 | 160 | 41 |
| 31-1062-009 | 31-2062-009 | | 35 | 160 | 50 |
| 31-1062-010 | 31-2062-010 | | 42 | 160 | 60 |
| 31-1062-011 | 31-2062-011 | S | 06 | 630 | 17 |
| 31-1062-012 | 31-2062-012 | | 08 | 630 | 19 |
| 31-1062-013 | 31-2062-013 | | 10 | 630 | 22 |
| 31-1062-014 | 31-2062-014 | | 12 | 630 | 24 |
| 31-1062-015 | 31-2062-015 | | 14 | 630 | 27 |
| 31-1062-016 | 31-2062-016 | | 16 | 400 | 30 |
| 31-1062-017 | 31-2062-017 | | 20 | 400 | 36 |
| 31-1062-018 | 31-2062-018 | | 25 | 400 | 46 |
| 31-1062-019 | 31-2062-019 | | 30 | 400 | 50 |
| 31-1062-020 | 31-2062-020 | | 38 | 315 | 60 |



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Bulkhead

| Order No. (CS) | Order No. (304) | Series | D (mm) | PN (BAR) | d | L1 (mm) | L2 (mm) | SW2 |
|----------------|-----------------|--------|--------|----------|-------|---------|---------|-----|
| 31-1069-001 | 31-2069-001 | LL | 06 | 100 | M10x1 | 60 | 20 | 14 |

If only order fitting body(w/o cutting ring & nut), then the order no. is 30-XXXX-XXX.

S