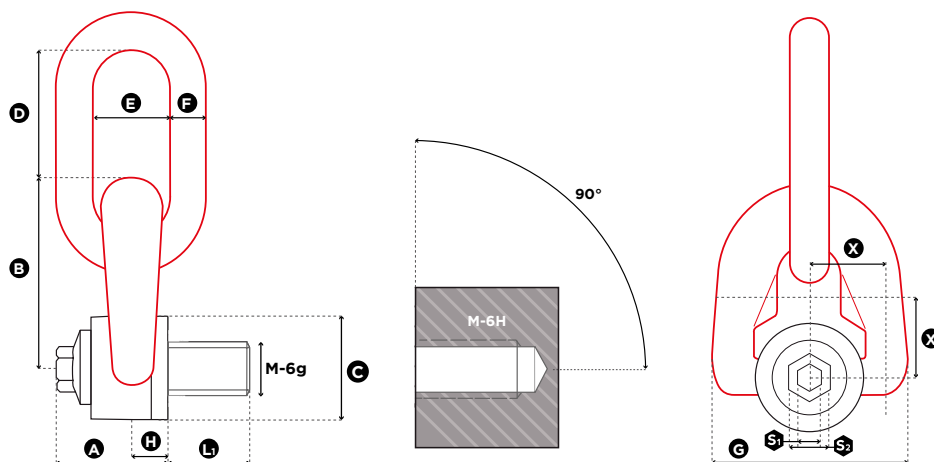


TSR

TRIPLE SWIVEL RING

METRIC THREADS



1 in = 25.4 mm

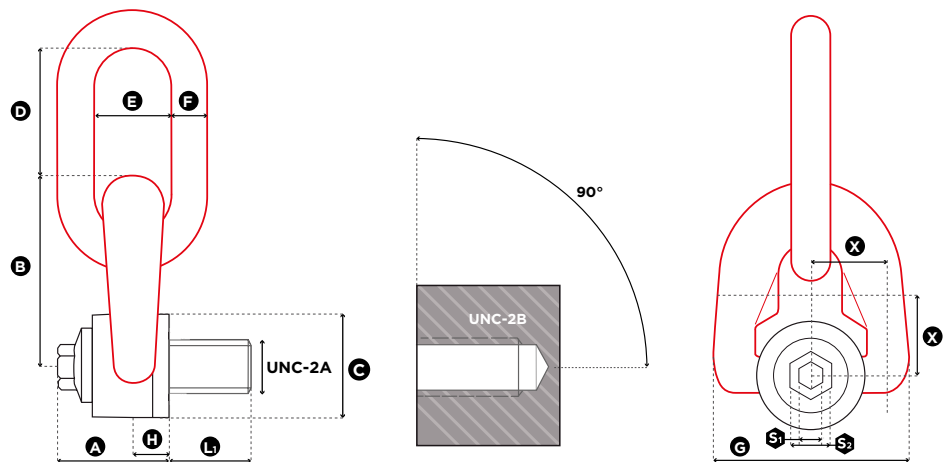
| Reference | Diameter | SF 5:1 WLL (t) | Standard L ₁ (mm) | Torque (Nm) | X | S ₁ (mm) | S ₂ (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Weight (kg) |
|-----------|--------------|----------------|------------------------------|-------------|----|---------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| TSR M 8 | M 8 (x1,25) | 0,40 | 14 | 6 | 18 | 8 | 16 | 33 | 56 | 30 | 41 | 25 | 10 | 58 | 9,5 | 0,4 |
| TSR M 10 | M 10 (x1,50) | 0,70 | 17 | 10 | 18 | 8 | 16 | 33 | 56 | 30 | 41 | 25 | 10 | 58 | 9,5 | 0,4 |
| TSR M 12 | M 12 (x1,75) | 1,05 | 21 | 15 | 18 | 8 | 16 | 33 | 56 | 30 | 41 | 25 | 10 | 58 | 9,5 | 0,4 |
| TSR M 14 | M 14 (x2) | 1,40 | 23 | 30 | 24 | 8 | 20 | 45 | 81 | 45 | 56 | 37 | 14 | 79 | 13,0 | 1,1 |
| TSR M 16 | M 16 (x2) | 2,00 | 27 | 50 | 24 | 8 | 20 | 45 | 81 | 45 | 56 | 37 | 14 | 79 | 13,0 | 1,2 |
| TSR M 18 | M 18 (x2,5) | 2,30 | 27 | 70 | 24 | 8 | 20 | 45 | 81 | 45 | 56 | 37 | 14 | 79 | 13,0 | 1,2 |
| TSR M 20 | M 20 (x2,5) | 2,50 | 30 | 100 | 24 | 8 | 20 | 45 | 81 | 45 | 56 | 37 | 14 | 79 | 13,0 | 1,2 |
| TSR M 22 | M 22 (x2,5) | 3,00 | 33 | 120 | 45 | 14 | 24 | 62 | 105 | 60 | 80 | 45 | 20 | 106 | 19,0 | 2,8 |
| TSR M 24 | M 24 (x3) | 4,00 | 36 | 160 | 45 | 14 | 24 | 62 | 105 | 60 | 80 | 45 | 20 | 106 | 19,0 | 2,9 |
| TSR M 27 | M 27 (x3) | 5,00 | 36 | 200 | 45 | 14 | 24 | 62 | 105 | 60 | 80 | 45 | 20 | 106 | 19,0 | 2,9 |
| TSR M 30 | M 30 (x3,5) | 6,30 | 45 | 250 | 45 | 14 | 24 | 62 | 105 | 60 | 80 | 45 | 20 | 106 | 19,0 | 3,0 |
| TSR M 36 | M 36 (x4) | 10,00 | 54 | 320 | 54 | 19 | 30 | 81 | 140 | 80 | 111 | 71 | 30 | 148 | 26,5 | 7,6 |
| TSR M 42 | M 42 (x4,5) | 12,50 | 63 | 400 | 58 | 19 | 30 | 84 | 146 | 80 | 111 | 71 | 30 | 148 | 26,5 | 7,8 |

| Reference | Diameter | SF 4:1 WLL (t) | Standard L ₁ (mm) | Torque (Nm) | X | S ₁ (mm) | S ₂ (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Weight (kg) |
|-----------|-------------|----------------|------------------------------|-------------|----|---------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| TSR M 48 | M 48 (x5) | 20,00 | 68 | 600 | 69 | 19 | 30 | 100 | 178 | 110 | 135 | 90 | 42 | 180 | 33,0 | 17,5 |
| TSR M 56 | M 56 (x5,5) | 22,00 | 78 | 600 | 73 | 19 | 30 | 104 | 184 | 110 | 135 | 90 | 42 | 190 | 33,0 | 18,0 |

TSR

TRIPLE SWIVEL RING

UNC THREADS



1 in = 25.4 mm

| Reference | Diameter | SF 5:1 WLL (lbs) | Standard L1 (mm) | Torque (ft-lb) | | S1 (mm) | S2 (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Weight (kg) |
|-----------|--------------|------------------------|------------------------|-------------------|----|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| TSR U 516 | UNC 5/16"-18 | 1,000 | 15 | 7 | 18 | 8 | 16 | 33 | 56 | 30 | 41 | 25 | 10 | 58 | 9,5 | 0,4 |
| TSR U 038 | UNC 3/8"-16 | 1,300 | 17 | 8 | 18 | 8 | 16 | 33 | 56 | 30 | 41 | 25 | 10 | 58 | 9,5 | 0,4 |
| TSR U 050 | UNC 1/2"-13 | 2,400 | 21 | 12 | 18 | 8 | 16 | 33 | 56 | 30 | 41 | 25 | 10 | 58 | 9,5 | 0,4 |
| TSR U 058 | UNC 5/8"-11 | 3,900 | 27 | 40 | 24 | 8 | 20 | 45 | 81 | 45 | 56 | 37 | 14 | 79 | 13,0 | 1,1 |
| TSR U 075 | UNC 3/4"-10 | 5,250 | 30 | 80 | 24 | 8 | 20 | 45 | 81 | 45 | 56 | 37 | 14 | 79 | 13,0 | 1,2 |
| TSR U 078 | UNC 7/8"-9 | 6,600 | 33 | 90 | 41 | 14 | 24 | 62 | 84 | 60 | 80 | 45 | 20 | 106 | 19,0 | 2,7 |
| TSR U 100 | UNC 1"-8 | 10,000 | 36 | 125 | 41 | 14 | 24 | 62 | 84 | 60 | 80 | 45 | 20 | 106 | 19,0 | 2,8 |
| TSR U 125 | UNC 1" 1/4-7 | 14,000 | 46 | 200 | 41 | 14 | 24 | 84 | 146 | 80 | 111 | 71 | 30 | 106 | 26,5 | 7,1 |
| TSR U 150 | UNC 1" 1/2-6 | 20,000 | 61 | 240 | 54 | 19 | 30 | 84 | 146 | 80 | 111 | 71 | 30 | 148 | 26,5 | 7,7 |

1 in = 25.4 mm

| Reference | Diameter | SF 4:1 WLL (lbs) | Standard L1 (mm) | Torque (Nm) | | S1 (mm) | S2 (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | Weight (kg) |
|-----------|------------|------------------------|------------------------|----------------|----|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| TSR U 200 | UNC 2" 4,5 | 50,000 | 76 | 450 | 66 | 19 | 30 | 104 | 184 | 110 | 135 | 90 | 42 | 190 | 33,0 | 17,7 |



LOAD ANGLE CHART

β max : 60°
L : Load











5:1

max. load in t

| METRIC THREADS | Torque (Nm) | | | | | | | | | | |
|-----------------|-------------|-------|-------|-------|-------|----------|-----------|------------|----------|-----------|------------|
| Number of rings | | 1 | 2 | 1 | 2 | 2 | | | 3 → 4 | | |
| Lifting angle β | | 0° | 0° | 90° | 90° | 0° → 45° | 46° → 60° | Asymmetric | 0° → 45° | 46° → 60° | Asymmetric |
| TSR M 8 | 6 | 0,40 | 0,80 | 0,40 | 0,80 | 0,56 | 0,40 | 0,40 | 0,84 | 0,40 | 0,40 |
| TSR M 10 | 10 | 0,70 | 1,40 | 0,70 | 1,40 | 0,98 | 0,70 | 0,70 | 1,47 | 0,70 | 0,70 |
| TSR M 12 | 15 | 1,05 | 2,10 | 1,05 | 2,10 | 1,47 | 1,05 | 1,05 | 2,21 | 1,05 | 1,05 |
| TSR M 14 | 30 | 1,40 | 2,80 | 1,40 | 2,80 | 1,96 | 1,40 | 1,40 | 2,94 | 1,40 | 1,40 |
| TSR M 16 | 50 | 2,00 | 4,00 | 2,00 | 4,00 | 2,80 | 2,00 | 2,00 | 4,20 | 2,00 | 2,00 |
| TSR M 18 | 70 | 2,30 | 4,60 | 2,30 | 4,60 | 3,22 | 2,30 | 2,30 | 4,83 | 2,30 | 2,30 |
| TSR M 20 | 100 | 2,50 | 5,00 | 2,50 | 5,00 | 3,50 | 2,50 | 2,50 | 5,25 | 2,50 | 2,50 |
| TSR M 22 | 120 | 3,00 | 6,00 | 3,00 | 6,00 | 4,20 | 3,00 | 3,00 | 6,30 | 3,00 | 3,00 |
| TSR M 24 | 160 | 4,00 | 8,00 | 4,00 | 8,00 | 5,60 | 4,00 | 4,00 | 8,40 | 4,00 | 4,00 |
| TSR M 27 | 200 | 5,00 | 10,00 | 5,00 | 10,00 | 7,00 | 5,00 | 5,00 | 10,50 | 5,00 | 5,00 |
| TSR M 30 | 250 | 6,30 | 12,60 | 6,30 | 12,60 | 8,82 | 6,30 | 6,30 | 13,23 | 6,30 | 6,30 |
| TSR M 36 | 320 | 10,00 | 20,00 | 10,00 | 20,00 | 14,00 | 10,00 | 10,00 | 21,00 | 10,00 | 10,00 |
| TSR M 42 | 400 | 12,50 | 25,00 | 12,50 | 25,00 | 17,50 | 12,50 | 12,50 | 26,25 | 12,50 | 12,50 |
| TSR M 48 | 600 | 20,00 | 40,00 | 20,00 | 40,00 | 28,00 | 20,00 | 20,00 | 42,00 | 20,00 | 20,00 |
| TSR M 56 | 600 | 22,00 | 44,00 | 22,00 | 44,00 | 30,80 | 22,00 | 22,00 | 46,20 | 22,00 | 22,00 |

4:1

max. load in lbs

| UNC THREADS | Torque (ft-lb) |  |  |  |  |  |  |  |  |  |  |
|-----------------|-------------------|--|--|--|--|--|--|--|--|--|--|
| Number of rings | | 1 | 2 | 1 | 2 | 2 | | | 3 → 4 | | |
| Lifting angle β | | 0° | 0° | 90° | 90° | 0° → 45° | 46° → 60° | Asymmetric | 0° → 45° | 46° → 60° | Asymmetric |
| TSR U 516 | 7 | 1,000 | 2,000 | 1,000 | 2,000 | 1,400 | 1,000 | 1,000 | 2,100 | 1,000 | 1,000 |
| TSR U 038 | 8 | 1,300 | 2,600 | 1,300 | 2,600 | 1,820 | 1,300 | 1,300 | 2,730 | 1,300 | 1,300 |
| TSR U 050 | 12 | 2,400 | 4,800 | 2,400 | 4,800 | 3,360 | 2,400 | 2,400 | 5,040 | 2,400 | 2,400 |
| TSR U 058 | 40 | 3,900 | 7,800 | 3,900 | 7,800 | 5,460 | 3,900 | 3,900 | 8,190 | 3,900 | 3,900 |
| TSR U 075 | 80 | 5,250 | 10,500 | 5,250 | 10,500 | 7,350 | 5,250 | 5,250 | 11,025 | 5,250 | 5,250 |
| TSR U 078 | 90 | 6,600 | 13,200 | 6,600 | 13,200 | 9,240 | 6,600 | 6,600 | 13,860 | 6,600 | 6,600 |
| TSR U 100 | 125 | 10,000 | 20,000 | 10,000 | 20,000 | 14,000 | 10,000 | 10,000 | 21,000 | 10,000 | 10,000 |
| TSR U 125 | 200 | 14,000 | 28,000 | 14,000 | 28,000 | 19,600 | 14,000 | 14,000 | 29,400 | 14,000 | 14,000 |
| TSR U 150 | 240 | 20,000 | 40,000 | 20,000 | 40,000 | 28,000 | 20,000 | 20,000 | 42,000 | 20,000 | 20,000 |
| TSR U 200 | 450 | 50,000 | 100,000 | 50,000 | 100,000 | 70,000 | 50,000 | 50,000 | 105,000 | 50,000 | 50,000 |

4:1