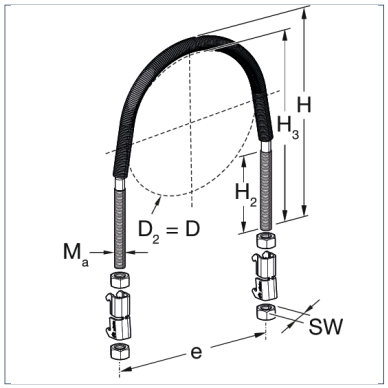
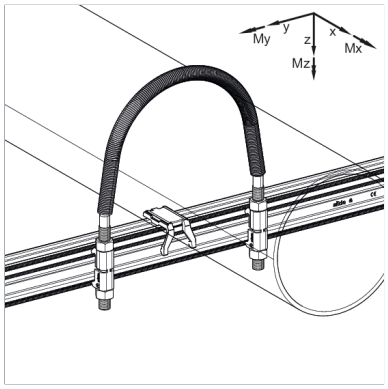
# U Bolt RUB 46 HCP






## General Information

U Bolt RUB 46 for fastening pipes in utility systems to the Profile PRO 46. U Bolts are used as a fixed point or as a guide for horizontal and vertical pipes.

## Installation

When used as a guide bearing, nuts arranged on both sides at the top and bottom of the round steel bracket must be tightened. The pipe should remain freely movable.
When used as a fixed point, first tighten the lower nuts until the pipe is clamped. Then tighten the upper nuts. For fixed points, the permissible forces of the structural connection and the bending loads of the U Bolt must not be exceeded.

## Material Properties

| | |
|---|---|
| Halogen-free | 1 |
| UV-resistant | 1 |

## Material

| | |
|---|---|
| Primary element material | steel |
| Isolating element material | PA 6.0 |
| Surface finish | HCP |
| Corrosion protection class | C4 |

## Forces

| Type | -V{X,perm.} | V{X,perm.} | -V{Y,perm.} | V{Y,perm.} | -V{Z,perm.} | V{Z,perm.} |
|---|---|---|---|---|---|---|
| RUB 46 21,3MM (1/2'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 26,9MM (3/4'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 33,7MM (1'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 42,4MM (1 1/4'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 48,3MM (1 1/2'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 60,3MM (2'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 76,1MM (2 1/2'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 88,9MM (3'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 108MM HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 114MM (4'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 133MM HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 139MM (5'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 159MM HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |
| RUB 46 168MM (6'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |

| Type | -V{X,perm.} | V{X,perm.} | -V{Y,perm.} | V{Y,perm.} | -V{Z,perm.} | V{Z,perm.} |
|---|---|---|---|---|---|---|
| RUB 46 219MM (8'') HCP | 1.07 kN | 1.07 kN | 1.04 kN | 1.04 kN | 5.42 kN | 5.42 kN |

## Types

| Type | Thread connection | Weight | Quantity | Part number |
|---|---|---|---|---|
| RUB 46 21,3MM (1/2'') HCP | M8 | 0.140 kg/Set | 50 Set | 805053 |
| RUB 46 26,9MM (3/4'') HCP | M8 | 0.150 kg/Set | 50 Set | 805054 |
| RUB 46 33,7MM (1'') HCP | M8 | 0.150 kg/Set | 50 Set | 805055 |
| RUB 46 42,4MM (1 1/4'') HCP | M8 | 0.160 kg/Set | 50 Set | 805056 |
| RUB 46 48,3MM (1 1/2'') HCP | M8 | 0.160 kg/Set | 50 Set | 805057 |
| RUB 46 60,3MM (2'') HCP | M10 | 0.270 kg/Set | 50 Set | 805058 |
| RUB 46 76,1MM (2 1/2'') HCP | M10 | 0.290 kg/Set | 50 Set | 805059 |
| RUB 46 88,9MM (3'') HCP | M10 | 0.310 kg/Set | 50 Set | 805060 |
| RUB 46 108MM HCP | M12 | 0.470 kg/Set | 25 Set | 805061 |
| RUB 46 114MM (4'') HCP | M12 | 0.480 kg/Set | 25 Set | 805062 |
| RUB 46 133MM HCP | M12 | 0.530 kg/Set | 25 Set | 805063 |
| RUB 46 139MM (5'') HCP | M12 | 0.530 kg/Set | 25 Set | 805064 |
| RUB 46 159MM HCP | M12 | 0.570 kg/Set | 10 Set | 805065 |
| RUB 46 168MM (6'') HCP | M12 | 0.590 kg/Set | 10 Set | 805066 |
| RUB 46 219MM (8'') HCP | M12 | 0.680 kg/Set | 10 Set | 805067 |

## Dimensions

| Type | D | D2 | e | H | H2 | H3 | Ma | SW |
|---|---|---|---|---|---|---|---|---|
| RUB 46 21,3MM (1/2'') HCP | 19.8 mm | 19.8 mm | 40 mm | 96.2 mm | 71 mm | 84.8 mm | M8 | 13 mm |
| RUB 46 26,9MM (3/4'') HCP | 24.8 mm | 24.8 mm | 45 mm | 101.2 mm | 73 mm | 89.8 mm | M8 | 13 mm |
| RUB 46 33,7MM (1'') HCP | 31.8 mm | 31.8 mm | 52 mm | 108.2 mm | 77 mm | 96.8 mm | M8 | 13 mm |
| RUB 46 42,4MM (1 1/4'') HCP | 39.8 mm | 39.8 mm | 60 mm | 116.2 mm | 80 mm | 104.8 mm | M8 | 13 mm |
| RUB 46 48,3MM (1 1/2'') HCP | 47.8 mm | 47.8 mm | 68 mm | 124.2 mm | 80 mm | 112.8 mm | M8 | 13 mm |
| RUB 46 60,3MM (2'') HCP | 57.95 mm | 57.95 mm | 84 mm | 140.45 mm | 90 mm | 127.45 mm | M10 | 17 mm |
| RUB 46 76,1MM (2 1/2'') HCP | 73.95 mm | 73.95 mm | 100 mm | 156.45 mm | 90 mm | 143.45 mm | M10 | 17 mm |
| RUB 46 88,9MM (3'') HCP | 87.95 mm | 87.95 mm | 114 mm | 170.45 mm | 90 mm | 157.45 mm | M10 | 17 mm |

# U Bolt RUB 46 HCP

| Type | D | D2 | e | H | H2 | H3 | Ma | SW |
|---|---|---|---|---|---|---|---|---|
| RUB 46 108MM HCP | 105.5 mm | 105.5 mm | 136 mm | 193.2 mm | 95 mm | 177.5 mm | M12 | 19 mm |
| RUB 46 114MM (4'') HCP | 111.5 mm | 111.5 mm | 142 mm | 199.2 mm | 95 mm | 183.5 mm | M12 | 19 mm |
| RUB 46 133MM HCP | 130.5 mm | 130.5 mm | 161 mm | 218.2 mm | 95 mm | 202.5 mm | M12 | 19 mm |
| RUB 46 139MM (5'') HCP | 137.5 mm | 137.5 mm | 168 mm | 225.2 mm | 95 mm | 209.5 mm | M12 | 19 mm |
| RUB 46 159MM HCP | 156.5 mm | 156.5 mm | 187 mm | 244.2 mm | 95 mm | 228.5 mm | M12 | 19 mm |
| RUB 46 168MM (6'') HCP | 167.5 mm | 167.5 mm | 198 mm | 255.2 mm | 95 mm | 239.5 mm | M12 | 19 mm |
| RUB 46 219MM (8'') HCP | 216.5 mm | 216.5 mm | 247 mm | 304.2 mm | 95 mm | 288.5 mm | M12 | 19 mm |

## Certification