



CLAMPS



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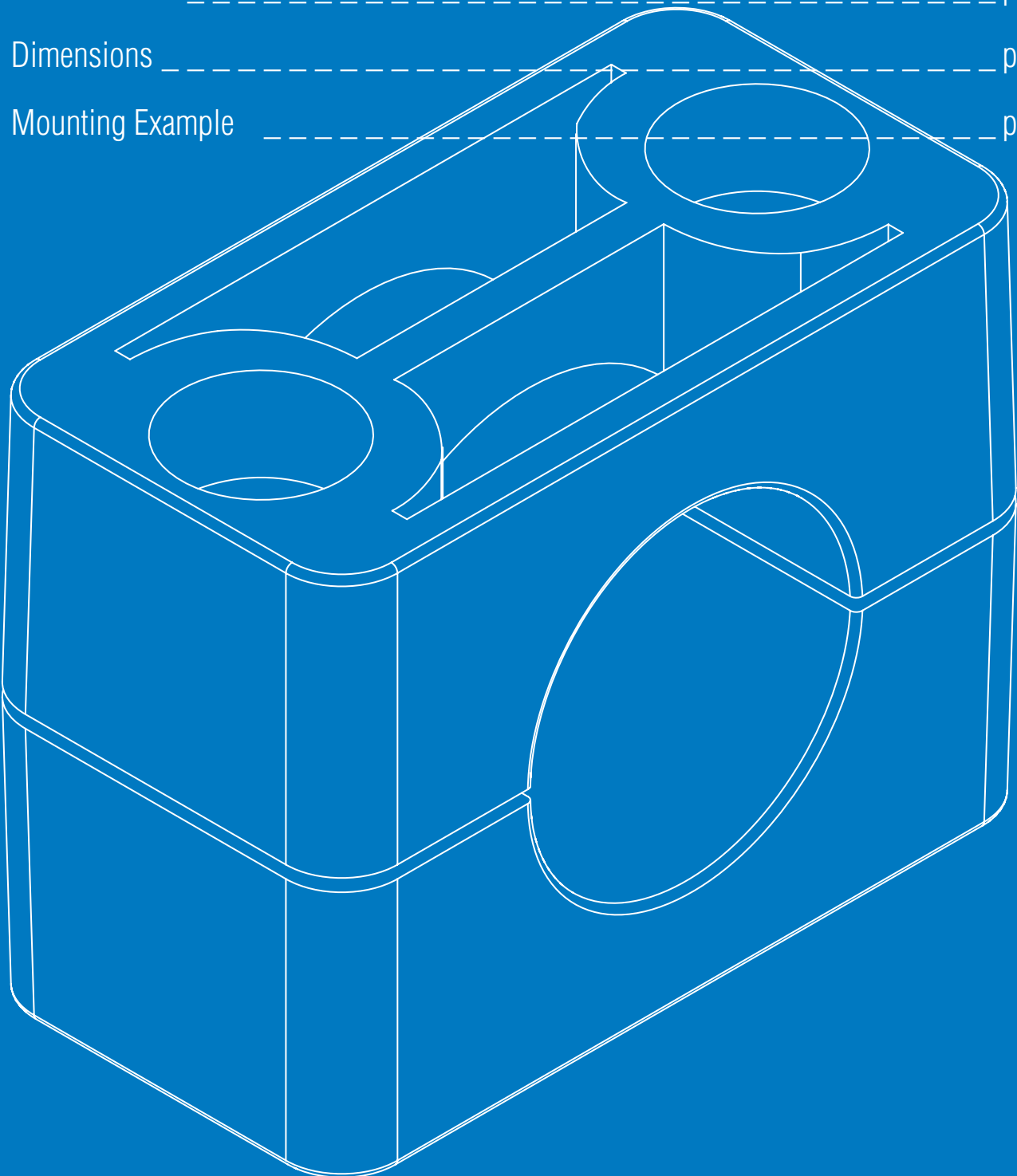
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STANDARD Series Clamps

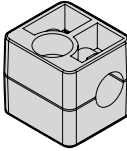
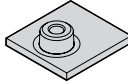
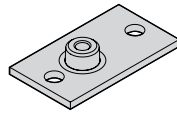
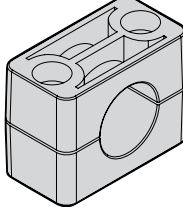
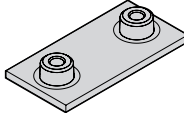
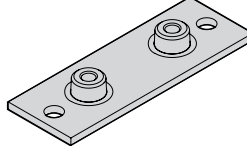
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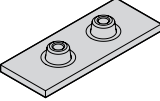
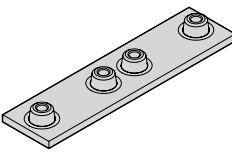
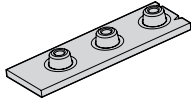
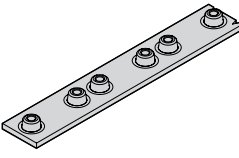

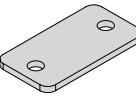
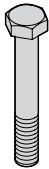

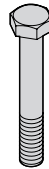
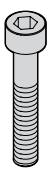
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PIPE CLAMPS - STANDARD SERIES




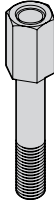
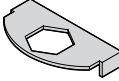
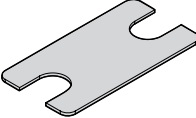
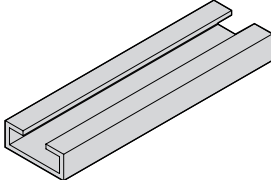
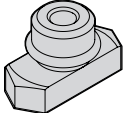
Order Codes

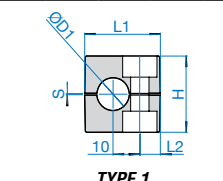
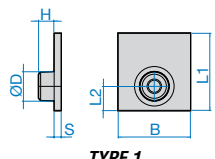
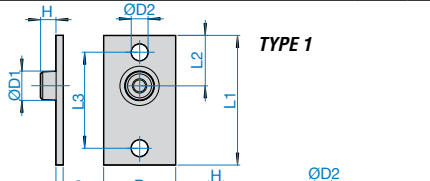
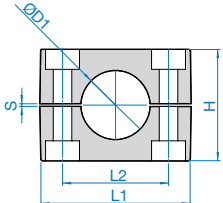
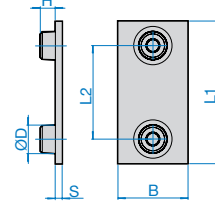
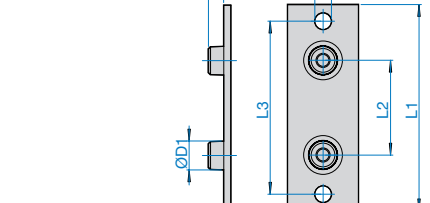
| PIPE CLAMPS MATERIAL | | | | Clamp body (two clamp halves) | | | Single weld plate P | | Elongated weld plate (with screw) PL | |
|---|------------------------|---------------------------------|---------|---|------------------------------|---------------------------|--|----------------|---|----------------|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. | | | |  <p>TYPE 1</p> | | |  <p>TYPE 1</p> | |  <p>TYPE 1</p> | |
| Code PA : Polyamide material Colour Black . | | | | | | | | | | |
| Code GM : Rubber Elastomer material Colour Black | | | |  <p>TYPE 2-9</p> | | |  <p>TYPE 2-9</p> | |  <p>TYPE 2-9</p> | |
| Internal surface clamp body Knurled from C1 to C7 type and profiled from C8 to C9. | | | | | | | | | | |
| Code A : Aluminium material Colour Aluminium Internal surface clamp body profiled . | | | | | | | | | | |
| For Dimensions see pages 7-9. For material characteristics, see pages 12, 78 and 80. | | | | | | | | | | |
| Components description | | | | # # - # #, # # - # # | | | P# XP# | # | PL# XPL# | # |
| Code P1.EFFE.Ci. clamp body | O.D. of Pipe/Tube/Hose | | | Code P1.EFFE.Ci. Type | Outside diameter in mm | Material of clamp body | Single weld plate S1360 and AISI 316L Type | Type of thread | Elongated weld plate S1360 and AISI 316L Type | Type of thread |
| | in mm | nominal bore pipe in inch | in inch | | | | | | | |
| C1 AC1 | 6 | | | C1 | 6 | ## | P1 XP1 | M6 | PL1 XPL1 | M6 |
| | 6,4 | | 1/4" | C1 | 6,4 | ## | | | | |
| | 8 | | 5/16" | C1 | 8 | ## | | | | |
| | 9,5 | | 3/8" | C1 | 9,5 | ## | | | | |
| | 10 | 1/8" | | C1 | 10 | ## | | | | |
| | 12 | | | C1 | 12 | ## | | | | |
| C2 AC2 | 12,7 | | 1/2" | C1 | 12,7 | ## | P2 XP2 | M6 | PL2 XPL2 | M6 |
| | 6 | | | C2 | 6 | ## | | | | |
| | 6,4 | | 1/4" | C2 | 6,4 | ## | | | | |
| | 8 | | 5/16" | C2 | 8 | ## | | | | |
| | 9,5 | | 3/8" | C2 | 9,5 | ## | | | | |
| | 10 | 1/8" | | C2 | 10 | ## | | | | |
| C3 AC3 | 12 | | | C2 | 12 | ## | P3 XP3 | M6 | PL3 XPL3 | M6 |
| | 12,7 | | 1/2" | C2 | 12,7 | ## | | | | |
| | 13,5 | 1/4" | | C3 | 13,5 | ## | | | | |
| | 14 | | | C3 | 14 | ## | | | | |
| | 15 | | | C3 | 15 | ## | | | | |
| | 16 | | 5/8" | C3 | 16 | ## | | | | |
| C4 AC4 | 17,2 | 3/8" | | C3 | 17,2 | ## | P4 XP4 | M6 | PL4 XPL4 | M6 |
| | 18 | | | C3 | 18 | ## | | | | |
| | 19 | | 3/4" | C4 | 19 | ## | | | | |
| | 20 | | | C4 | 20 | ## | | | | |
| | 21,3 | 1/2" | | C4 | 21,3 | ## | | | | |
| | 22 | | 7/8" | C4 | 22 | ## | | | | |
| C5 AC5 | 23 | | | C4 | 23 | ## | P5 XP5 | M6 | PL5 XPL5 | M6 |
| | 25 | | | C4 | 25 | ## | | | | |
| | 25,4 | | 1" | C4 | 25,4 | ## | | | | |
| | 26,7 | 3/4" | | C5 | 26,9 | ## | | | | |
| | 28 | | | C5 | 28 | ## | | | | |
| | 29 | | | C5 | 29 | ## | | | | |
| C6 AC6 | 30 | | | C5 | 30 | ## | P6 XP6 | M6 | PL6 XPL6 | M6 |
| | 32 | | 1.1/4" | C5 | 32 | ## | | | | |
| | 32 | | 1.1/4" | C6 | 32 | ## | | | | |
| | 33,7 | 1" | | C6 | 33,7 | ## | | | | |
| | 35 | | | C6 | 35 | ## | | | | |
| | 38 | | 1.1/2" | C6 | 38 | ## | | | | |
| C7 AC7 | 40 | | | C6 | 40 | ## | P7 XP7 | M6 | PL7 XPL7 | M6 |
| | 42,4 | 1.1/4" | | C6 | 42,4 | ## | | | | |
| | 45 | | | C6 | 45 | ## | | | | |
| | 44,5 | | 1.3/4" | C7 | 44,5 | ## | | | | |
| | 45 | | | C7 | 45 | ## | | | | |
| | 48,3 | 1.1/2" | | C7 | 48,3 | ## | | | | |
| C8 | 50 | | | C7 | 50 | ## | P8 XP8 | M6 | PL8 XPL8 | M6 |
| | 50,8 | | 2" | C7 | 50,8 | ## | | | | |
| | 53 | | | C7 | 53 | ## | | | | |
| | 54 | 1.3/4" | | C7 | 54 | ## | | | | |
| | 57,2 | | 2.1/4" | C8 | 57,2 | ## | | | | |
| | 60,3 | 2" | | C8 | 60,3 | ## | | | | |
| C9 | 63,5 | | 2.1/2" | C8 | 63,5 | ## | P9 XP9 | M6 | PL9 XPL9 | M6 |
| | 66 | | | C8 | 66 | ## | | | | |
| | 70 | | 2.3/4" | C8 | 70 | ## | | | | |
| | 73 | | | C8 | 73 | ## | | | | |
| | 76,1 | 2.1/2" | 3" | C8 | 76,1 | ## | | | | |
| | 88,9 | 3" | 3.1/2" | C9 | 88,9 | ## | | | | |
| 102 | 3.1/2" | 4" | C9 | 102 | ## | | | | | |

| Twin weld plate PD | | Multiple weld plate PM | | | Upper plate PS | Hexagon head bolt VE | Bushing B | Hexagon head bolt VEB | Socket cap screw TCEI | | | |
|---|---|--|----------------|------------------|--|--|---|--|---|----------------|--|----------------|
|  TYPE 1  TYPE 2-7 | |  TYPE 1  TYPE 2-7 | | |  TYPE 1  TYPE 2-9 | WITH UPPER PLATE PS EN ISO 4014 / 4017  | NO UPPER PLATE FOR USE WITH HEXAGON HEAD BOLT VEB  | FOR USE WITH BUSHING B  | EN ISO 4762  | | | |
| PD# | # | PM# | # | | PS# | VE# | # | B | VEB# | # | TCEI# | # |
| XPD# | Type of thread | XPM# | Type of thread | Number of clamps | XPS# | XVE# | Type of thread | XB | XVEB# | Type of thread | XTCEI# | Type of thread |
| | Twin weld plate S360 and AISI 316L Type | Multiple weld plate S360 and AISI 316L Type | Type of thread | | Upper plate S360 and AISI 316L Type | Hexagon head bolt Steel 8.8 and A4 Type | Type of thread | Bushing S360 and AISI 316L | Hexagon head bolt Steel 8.8 and A4 Type | Type of thread | Socket cap screw Steel 8.8 and A4 Type | Type of thread |
| PD1 XPD1 | M6 | PM1 XPM1 | M6 | 10 | PS1 XPS1 | VE1 XVE1 | (M6x30) | B XB For clamps C1-C7 and AC1-AC7 | VEB1 XVEB1 | (M6x27) | TCEI1 XTCEI1 | (M6x20) |
| PD2 XPD2 | M6 | PM2 XPM2 | M6 | 10 | PS2 XPS2 | VE2 XVE2 | (M6x30) | | VEB2 XVEB2 | (M6x27) | TCEI 2 XTCEI 2 | (M6x20) |
| PD3 XPD3 | M6 | PM3 XPM3 | M6 | 10 | PS3 XPS3 | VE3 XVE3 | (M6x35) | | VEB3 XVEB3 | (M6x32) | TCEI 3 XTCEI 3 | (M6x25) |
| PD4 XPD4 | M6 | PM4 XPM4 | M6 | 10 | PS4 XPS4 | VE4 XVE4 | (M6x40) | | VEB4 XVEB4 | (M6x35) | TCEI 4 XTCEI 4 | (M6x30) |
| PD5 XPD5 | M6 | PM5 XPM5 | M6 | 5 | PS5 XPS5 | VE5 XVE5 | (M6x45) | | VEB5 XVEB5 | (M6x42) | TCEI 5 XTCEI 5 | (M6x35) |
| PD6 XPD6 | M6 | PM6 XPM6 | M6 | 5 | PS6 XPS6 | VE6 XVE6 | (M6x60) | | VEB6 XVEB6 | (M6x57) | TCEI 6 XTCEI 6 | (M6x50) |
| PD7 XPD7 | M6 | PM7 XPM7 | M6 | 5 | PS7 XPS7 | VE7 XVE7 | (M6x70) | | VEB7 XVEB7 | (M6x65) | TCEI 7 XTCEI 7 | (M6x60) |
| --- | | --- | | | PS8 XPS8 | VE8 XVE8 | (M6x100) | --- | --- | | TCEI 8 XTCEI 8 | (M6x90) |
| --- | | --- | | | PS9 XPS9 | VE9 XVE9 | (M6x125) | --- | --- | | TCEI 9 XTCEI 9 | (M6x110) |

PIPE CLAMPS - STANDARD SERIES

Order Codes

| Flat washer RP | Safety washer RS | High hexagon head bolt VA | Locking plate PB | Mounting rail BB | Rail nut with rubber ring DF+ AG | | |
|---|---|--|--|--|---|-------------------------------------|----------------|
| <p>FOR USE WITH SCREW TCEI / VA</p>  | <p>FOR USE WITH HEXAGON HEAD BOLT VE / VEB</p> <p>DIN 93</p>  <p>DIN 463</p>  | <p>FOR OVERLAPPED CLAMPS</p>  | <p>FOR OVERLAPPED CLAMPS</p>  <p>TYPE 1</p>  <p>TYPE 2-9</p> |  |  | | |
| RP XRP | RS 6.4 XRS 6.4 | VA# XVA# | # | PB# | BB XBB | DF XDF | # |
| Flat washer S1360 and A4 | Safety washer S1360 and A4 | High hexagon head bolt S1360 and AISI16L Type | Type of thread | Locking plate S1360 and AISI 316L Type | Mounting rail Steel DX51D and AISI 316L | Rail nut C20 and AISI 316L | Type of thread |
| <p>RP XRP</p> <p>for clamps C1-C9 and AC1-AC7</p> | <p>RS 6,4 XRS 6,4</p> <p>for clamps C1-C9 and AC1-AC7</p> | VA1 XVA1 | M6 | PB1 XPB1 | <p>BB XBB</p> <p>Available heights 11, 14 and 30mm Available lengths 2m</p> | <p>DF XDF</p> | <p>M6</p> |
| | | VA2 XVA2 | M6 | PB2 XPB2 | | | |
| | | VA3 XVA3 | M6 | PB3 XPB3 | | | |
| | | VA4 XVA4 | M6 | PB4 XPB4 | | | |
| | | VA5 XVA5 | M6 | PB5 XPB5 | | | |
| | | VA6 XVA6 | M6 | PB6 XPB6 | | | |
| | | VA7 XVA7 | M6 | PB7 XPB7 | | | |
| | | VA8 XVA8 | M6 | PB8 XPB8 | | | |
| | | VA9 XVA9 | M6 | PB9 XPB9 | | | |

| MATERIALS AND TYPE OF THREAD COMPONENTS AND ACCESSORIES | | | | Clamp body (two clamp halves) | | | | | Single weld plate P | | | | | Elongated weld plate (with screw) PL | | | | | | | | | | |
|--|-------------------------------|----------------|---------|---|-----|-----|-----|---|---|------|-----|----|--|---|----|---------------------|-----|--|-----|----|---|-----|-----|-----|
| All component and accessories are available in: Carbon steel St360 : with finishing surface in white zinc-coated Fe Zn c8 II . Untreated are available on request. Stainless steel inox 316L : (X2 CrNiMo 17-12-2) 1.4404 Marked with X identification code. NB: the BB track is treated with zinc-plating SENDZIMIR . All the components are produced with metric thread, on request are also available with UNC thread. Metric thread: code M UNC thread: code UNC . For material characteristics see pages 12, 78 and 80. | | | |  <p>TYPE 1</p> | | | | |  <p>TYPE 1</p> | | | | |  <p>TYPE 1</p> | | | | | | | | | | |
| | | | |  <p>TYPE 2-9</p> | | | | |  <p>TYPE 2-9</p> | | | | |  <p>TYPE 2-9</p> | | | | | | | | | | |
| | | | | Material description | | | | Code C Mat. PP-PA-GM Alluminium mat. code AC | | | | | Carbon steel St360 code P Stainless steel AISI 316L code XP | | | | | Carbon steel St360 code PL Stainless steel AISI 316L code XPL | | | | | | |
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose ØD1 | | | L1 | L2 | H | S | Width | Code PI.EFFE.CI. | L1 | L2 | B | S | H | ØD | Code PI.EFFE.CI. | L1 | L2 | L3 | B | S | H | ØD1 | ØD2 |
| | in mm | nom. bore pipe | in inch | | | | | | | | | | | | | | | | | | | | | |
| C1 AC1 | 6 | | | 28 | 9,5 | 27 | 0,6 | 30 | P1 XP1 | 31,5 | 10 | 30 | 3 | 6,5 | 12 | PL1 XPL1 | 58 | 24,5 | 44 | 30 | 3 | 6,5 | 12 | 7 |
| | 6,4 | | 1/4" | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | 5/16" | | | | | | | | | | | | | | | | | | | | | |
| | 9,5 | | 3/8" | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 1 1/8" | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 AC2 | 12,7 | | 1/2" | 37 | 20 | 27 | 0,6 | 30 | P2 XP2 | 36 | 20 | 30 | 3 | 6,5 | 12 | PL2 XPL2 | 64 | 20 | 50 | 30 | 3 | 6,5 | 12 | 7 |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6,4 | | 1/4" | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | 5/16" | | | | | | | | | | | | | | | | | | | | | |
| | 9,5 | | 3/8" | | | | | | | | | | | | | | | | | | | | | |
| 10 | 1/8" | | | | | | | | | | | | | | | | | | | | | | | |
| C3 AC3 | 12 | | | 42 | 26 | 33 | 0,8 | 30 | P3 XP3 | 42 | 26 | 30 | 3 | 6,5 | 12 | PL3 XPL3 | 70 | 26 | 56 | 30 | 3 | 6,5 | 12 | 7 |
| | 12,7 | | 1/2" | | | | | | | | | | | | | | | | | | | | | |
| | 13,5 | | 1/4" | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | | 5/8" | | | | | | | | | | | | | | | | | | | | | |
| 17,2 | 3/8" | | | | | | | | | | | | | | | | | | | | | | | |
| C4 AC4 | 18 | | | 50 | 33 | 36 | 0,8 | 30 | P4 XP4 | 50 | 33 | 30 | 3 | 6,5 | 12 | PL4 XPL4 | 78 | 33 | 64 | 30 | 3 | 6,5 | 12 | 7 |
| | 19 | | 3/4" | | | | | | | | | | | | | | | | | | | | | |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | |
| | 21,3 | | 1/2" | | | | | | | | | | | | | | | | | | | | | |
| | 22 | | 7/8" | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| C5 AC5 | 25,4 | | 1" | 57 | 40 | 42 | 1 | 30 | P5 XP5 | 60 | 40 | 30 | 3 | 6,5 | 12 | PL5 XPL5 | 87 | 40 | 73 | 30 | 3 | 6,5 | 12 | 7 |
| | 26,9 | | 3/4" | | | | | | | | | | | | | | | | | | | | | |
| | 28 | | | | | | | | | | | | | | | | | | | | | | | |
| | 29 | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | |
| C6 AC6 | 32 | | 1 1/4" | 71 | 52 | 58 | 1,4 | 30 | P6 XP6 | 71 | 52 | 30 | 3 | 6,5 | 12 | PL6 XPL6 | 100 | 52 | 86 | 30 | 3 | 6,5 | 12 | 7 |
| | 32 | | 1 1/4" | | | | | | | | | | | | | | | | | | | | | |
| | 33,7 | | 1" | | | | | | | | | | | | | | | | | | | | | |
| | 35 | | | | | | | | | | | | | | | | | | | | | | | |
| | 38 | | 1 1/2" | | | | | | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | | | | | | |
| C7 AC7 | 42,4 | 1 1/4" | | 86 | 66 | 66 | 1,4 | 30 | P7 XP7 | 88 | 66 | 30 | 3 | 6,5 | 12 | PL7 XPL7 | 115 | 66 | 100 | 30 | 3 | 6,5 | 12 | 7 |
| | 45 | | 1 3/4" | | | | | | | | | | | | | | | | | | | | | |
| | 48,3 | 1 1/2" | | | | | | | | | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| | 50,8 | | 2" | | | | | | | | | | | | | | | | | | | | | |
| | 53 | | | | | | | | | | | | | | | | | | | | | | | |
| C8 | 54 | 1 3/4" | | 121 | 94 | 93 | 2 | 30 | P8 XP8 | 122 | 94 | 30 | 5 | 6,5 | 12 | PL8 XPL8 | 150 | 94 | 136 | 30 | 5 | 6,5 | 12 | 7 |
| | 57,2 | | 2 1/4" | | | | | | | | | | | | | | | | | | | | | |
| | 60,3 | | 2" | | | | | | | | | | | | | | | | | | | | | |
| | 63,5 | | 2 1/2" | | | | | | | | | | | | | | | | | | | | | |
| | 66 | | | | | | | | | | | | | | | | | | | | | | | |
| | 70 | | 2 3/4" | | | | | | | | | | | | | | | | | | | | | |
| C9 | 73 | | | 147 | 120 | 118 | 3 | 30 | P9 XP9 | 148 | 120 | 30 | 5 | 6,5 | 12 | PL9 XPL9 | 178 | 120 | 162 | 30 | 5 | 6,5 | 12 | 7 |
| | 76,1 | 2 1/2" | 3" | | | | | | | | | | | | | | | | | | | | | |
| | 88,9 | 3" | 3 1/2" | | | | | | | | | | | | | | | | | | | | | |
| 102 | 3 1/2" | 4" | | | | | | | | | | | | | | | | | | | | | | |

PIPE CLAMPS - STANDARD SERIES

Dimensions

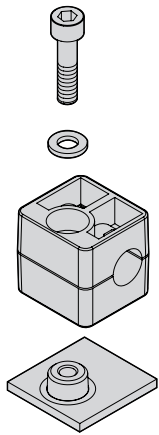
| Twin weld plate PD | | | | | | | | | | | | Multiple weld plate PM | | | | | | Upper plate PS | | | | | Hexagon head bolt VE | | Bushing B | | | Hexagon head bolt VEB | |
|--|-----|----|----|----|---|-----|----|-------------------|-----|----|----|--|---|-----|----|-------------------|------|--|----|---|----|-------------------|--|-------------------|---------------------------------------|-----|---|--|-------|
| | | | | | | | | | | | | | | | | | | | | | | | <p>ISO 4014 / 4017</p> <p>FOR UPPER PLATE PS</p> | | | | | <p>FOR USE WITH BUSHING B</p> | |
| Carbon steel St360 code PD Stainless steel AISI 316L c. XPD | | | | | | | | | | | | Carbon steel St360 code PM Stainless steel AISI 316L c. XPM | | | | | | Carbon steel St360 c. PD Stainless steel AISI 316L c. XPD | | | | | Steel 8.8 code VE Stainless st. A4 code XVE | | St360 code B St. AISI 316L code XB | | | Steel 8.8 c. VEB Stainless st. A4 code XVEB | |
| Code P.I.EFFE.CI. | L1 | L2 | L3 | B | S | H | ØD | Code P.I.EFFE.CI. | L1 | L2 | L3 | B | S | H | ØD | Code P.I.EFFE.CI. | L1 | L2 | B | S | ØD | Code P.I.EFFE.CI. | D x L | Code P.I.EFFE.CI. | D1 | D2 | H | Code P.I.EFFE.CI. | D x L |
| PD1 XPD1 | 87 | 40 | 40 | 30 | 3 | 6,5 | 12 | PM1 XPM1 | 312 | 31 | 31 | 30 | 4 | 6,5 | 12 | PS1 XPS1 | 27,5 | 7 | 30 | 3 | 7 | VE1 XVE1 | M6x30 | VEB1 XVEB1 | | | | M6x27 | |
| PD2 XPD2 | 76 | 20 | 38 | 30 | 3 | 6,5 | 12 | PM2 XPM2 | 380 | 20 | 38 | 30 | 4 | 6,5 | 12 | PS2 XPS2 | 34,5 | 20 | 30 | 3 | 7 | VE2 XVE2 | M6x30 | VEB2 XVEB2 | | | | M6x27 | |
| PD3 XPD3 | 88 | 26 | 44 | 30 | 3 | 6,5 | 12 | PM3 XPM3 | 440 | 26 | 44 | 30 | 4 | 6,5 | 12 | PS3 XPS3 | 40,5 | 26 | 30 | 3 | 7 | VE3 XVE3 | M6x35 | VEB3 XVEB3 | | | | M6x32 | |
| PD4 XPD4 | 102 | 33 | 51 | 30 | 3 | 6,5 | 12 | PM4 XPM4 | 520 | 33 | 52 | 30 | 4 | 6,5 | 12 | PS4 XPS4 | 48 | 33 | 30 | 3 | 7 | VE4 XVE4 | M6x40 | B XB | 11,5 | 6,5 | 8 | VEB4 XVEB4 | M6x35 |
| PD5 XPD5 | 120 | 40 | 60 | 30 | 3 | 6,5 | 12 | PM5 XPM5 | 300 | 40 | 60 | 30 | 4 | 6,5 | 12 | PS5 XPS5 | 56,5 | 40 | 30 | 3 | 7 | VE5 XVE5 | M6x45 | VEB5 XVEB5 | | | | M6x42 | |
| PD6 XPD6 | 150 | 52 | 75 | 30 | 3 | 6,5 | 12 | PM6 XPM6 | 375 | 52 | 75 | 30 | 4 | 6,5 | 12 | PS6 XPS6 | 69,5 | 52 | 30 | 3 | 7 | VE6 XVE6 | M6x60 | VEB6 XVEB6 | | | | M6x57 | |
| PD7 XPD7 | 180 | 66 | 90 | 30 | 3 | 6,5 | 12 | PM7 XPM7 | 450 | 66 | 90 | 30 | 4 | 6,5 | 12 | PS7 XPS7 | 85,5 | 66 | 30 | 3 | 7 | VE7 XVE7 | M6x70 | VEB7 XVEB7 | | | | M6x65 | |
| --- | | | | | | | | | | | | | | | | PS8 XPS8 | 118 | 94 | 30 | 5 | 7 | VE8 XVE8 | M6x100 | --- | | | | --- | |
| --- | | | | | | | | | | | | | | | | PS9 XPS9 | 144 | 120 | 30 | 5 | 7 | VE9 XVE9 | M6x125 | --- | | | | --- | |

| Socket cap screw TCEI | | Flat washer RP | | | Safety washer RS | | High hexagon head bolt VA | | | | | Locking plate PB | | | | Mounting rail BB | | | | Rail nut with rubber ring DF+AG | | | | | | | | | |
|---|--------|--|------|-----|---|---------------------|--|---------------------|----|-----|-----|--|----|---------------------|------|---|------|---|---------------------|--|----|---|---------------------|------|------|------|-----|------|------|
| <i>ISO 4762</i> | | | | | <i>DIN 93</i> | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steel 8.8 c. TCEI Stainless steel AISI 316L code XTCEI | | Carbon steel St360 code RP Stainless steel AISI 316L c. XRP | | | Carbon steel St360 code RS Stainless steel A4 code XRS | | St360 code VA Stainless steel AISI 316L code XVA | | | | | Carbon steel St360 code PB Stainless steel AISI 316L code XPB | | | | Steel DX51D code BB Stainless st. AISI 316L c. XBB | | | | Steel C20 code DF Stainless st. AISI 316L code XDF | | | | | | | | | |
| Code PI.EFFE.CI. | D x L | Code PI.EFFE.CI. | ØD | ØD1 | S | Code PI.EFFE.CI. | ØD | Code PI.EFFE.CI. | D | L1 | L2 | L3 | CH | Code PI.EFFE.CI. | L | B1 | B2 | S | Code PI.EFFE.CI. | B1 | B2 | S | Code PI.EFFE.CI. | L | B | H1 | H2 | ØD | AG |
| TCEI XTCEI | M6x20 | RP XRP | 11,5 | 6,3 | 0,8 | RS XRS | 6,4 | VA1 XVA1 | M6 | 34 | 20 | 14 | 11 | PB1 XPB1 | 17 | 32 | 11,2 | 1 | BB XBB | 28 | 11 | 2 | DF XDF | 25,5 | 10,4 | 14,5 | 5,5 | 11,8 | 10x2 |
| | M6x20 | | | | | | | VA2 XVA2 | M6 | 34 | 20 | 14 | 11 | PB2 XPB2 | 33 | 28 | 11,2 | 1 | | | | | | | | | | | |
| | M6x25 | | | | | | | VA3 XVA3 | M6 | 39 | 25 | 14 | 11 | PB3 XPB3 | 39 | 28 | 11,2 | 1 | | | | | | | | | | | |
| | M6x30 | | | | | | | VA4 XVA4 | M6 | 43 | 29 | 14 | 11 | PB4 XPB4 | 47 | 28 | 11,2 | 1 | | | | | | | | | | | |
| | M6x35 | | | | | | | VA5 XVA5 | M6 | 49 | 35 | 14 | 11 | PB5 XPB5 | 54 | 28 | 11,2 | 1 | | | | | | | | | | | |
| | M6x50 | | | | | | | VA6 XVA6 | M6 | 64 | 50 | 15 | 11 | PB6 XPB6 | 66 | 28 | 11,2 | 1 | | | | | | | | | | | |
| | M6x60 | | | | | | | VA7 XVA7 | M6 | 73 | 59 | 14 | 11 | PB7 XPB7 | 80,3 | 28 | 11,2 | 1 | | | | | | | | | | | |
| | M6x90 | | | | | | | VA8 XVA8 | M6 | 99 | 85 | 14 | 11 | PB8 XPB8 | 117 | 28 | 11,2 | 1 | | | | | | | | | | | |
| | M6x110 | | | | | | | VA9 XVA9 | M6 | 124 | 110 | 14 | 11 | PB9 XPB9 | 143 | 28 | 11,2 | 1 | | | | | | | | | | | |

PIPE CLAMPS - STANDARD SERIES

Mounting Example

Mounting Example of complete clamp C1 type in Polypropylene for pipe with outside diameter of 12mm with single weld plate.



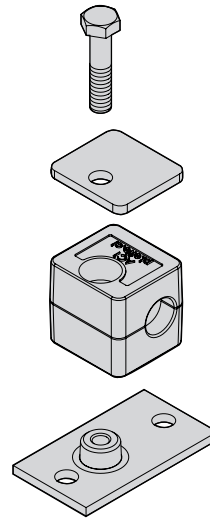
TCEI M6x20
Socked cap screw
in Steel 8.8

N.1 RP
Flat washer in St360

N.1 C1 12 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 P1
Weld plate in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete Aluminium clamp AC1 type for pipe with outside diameter of 12mm with elongated plate with fixing holes and upper plate.



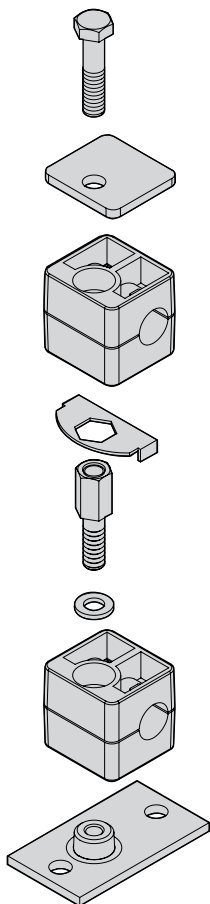
N.1 VE1 M6x30
Hexagon head bolt Steel 8.8
Metric Thread

N.1 PS1
Upper plate in St360
Surface finishing
white zinc-plating

N.1 C1 12 # #
Clamp body
(Two clamp halves)
in Aluminium

N.1 PL1
Elongated plate with fixing holes
in St 360 Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete stacked clamp C1 in Rubber for pipe with outside diameter of 12mm, elongated plate with fixing holes and upper plate.



N.1 VE1 M6x30
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS1
Upper plate in St360
Surface finishing
white zinc-plating

N.1 C1 12 # #
Clamp body
(Two clamp halves)
in Rubber

N.1 PB1
Locking plate Steel St360
Surface finishing white zinc-plating

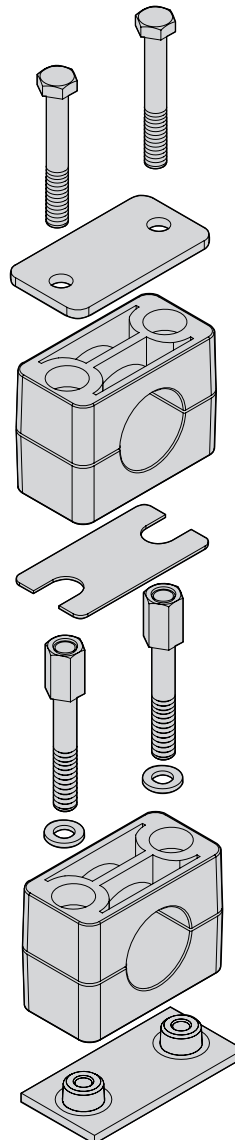
N.1 VA1
Stacking bolt in St360
Metric thread

N.1 RP
Flat washer in St360

N.1 C1 12 # #
Clamp body
(Two clamp halves)
in Rubber

N.1 PL1
Elongated plate with fixing holes
in St 360 Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete stacked clamp C5 in Polypropylene for pipe with outside diameter of 30mm single weld plate and upper plate.



N.2 VE5 M6x45
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS5
Upper plate in St360
Surface finishing
white zinc-plating

N.1 C5 30 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PB5
Locking plate Steel St360
Surface finishing white zinc-plating

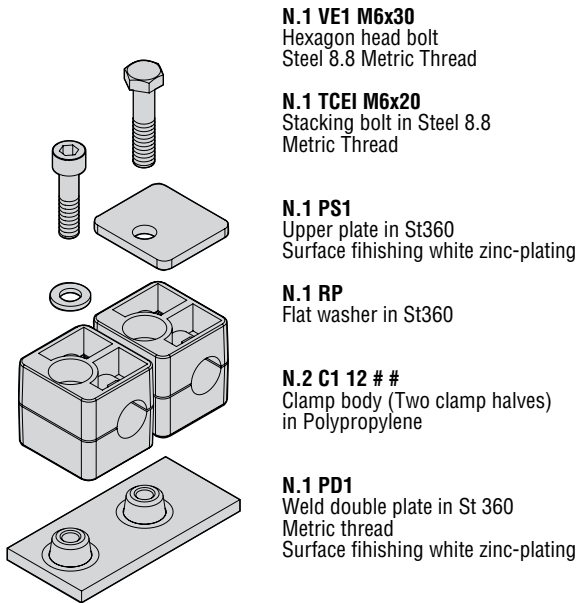
N.2 VA5
Stacking bolt in St360
Metric thread

N.2 RP
Flat washer in St360

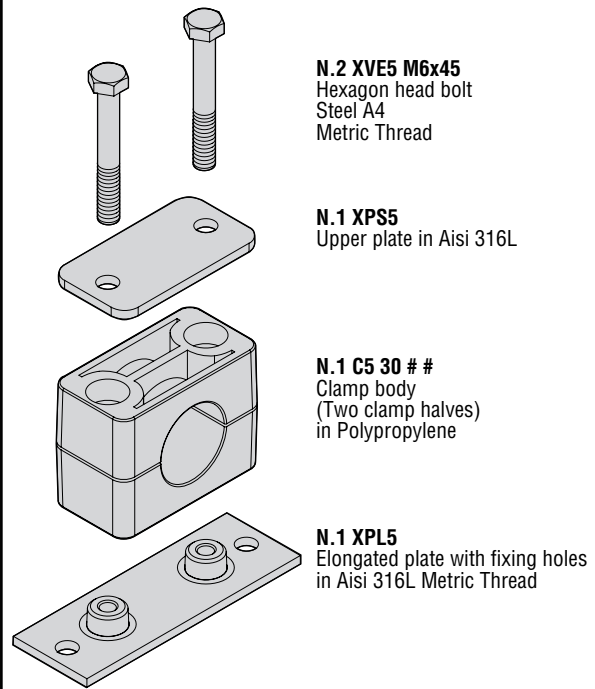
N.1 C5 30 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 P5
Weld plate in St 360
Metric thread
Surface finishing
white zinc-plating

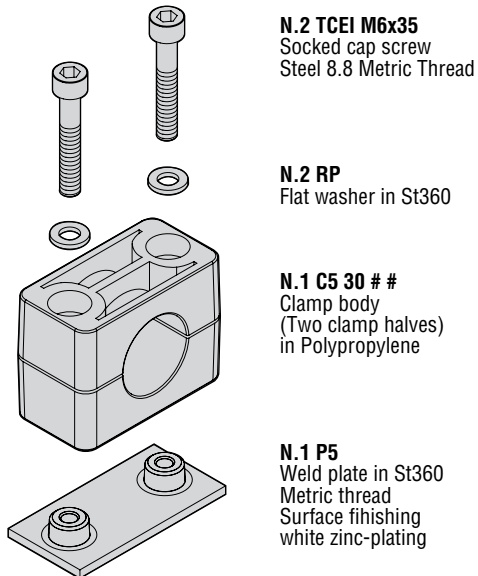
Mounting Example of complete clamp C1 type side by side in Polypropylene for pipe with outside diameter of 12mm, with double weld plate and upper plate.



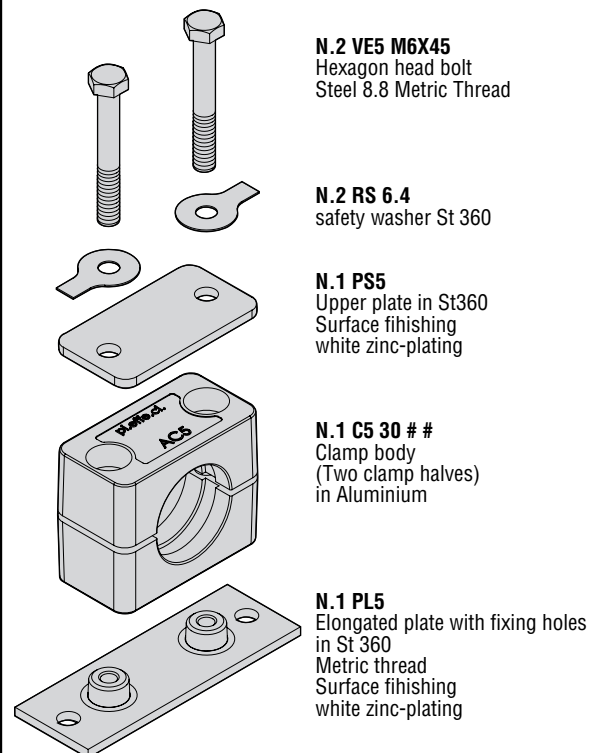
Mounting Example of complete clamp C5 in Polypropylene for pipe with outside diameter of 30mm, elongated plate with fixing holes and upper plate.



Mounting Example of complete clamp C5 in Polypropylene for pipe with outside diameter of 30mm, with single weld plate.



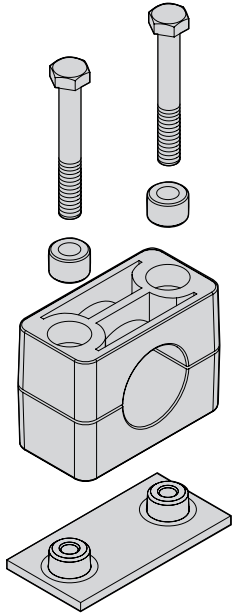
Mounting Example of complete clamp C5 in Aluminium for pipe with outside diameter of 30mm, elongated plate with fixing holes and upper plate.



PIPE CLAMPS - STANDARD SERIES

Mounting Example

Mounting Example of complete clamp C5 in Rubber for pipe with outside diameter of 30mm, with single weld plate with bushing.



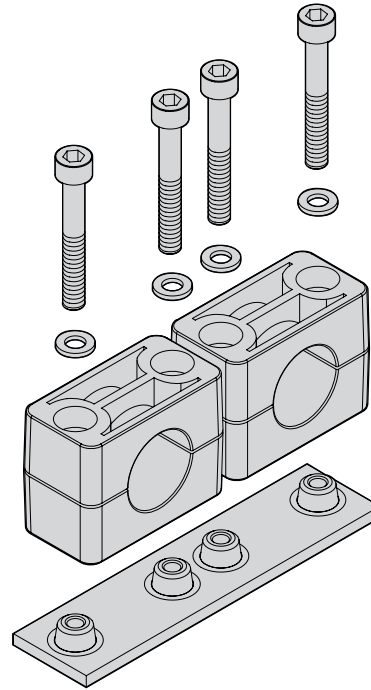
N.2 VEB5 M6x42
Hexagon head bolt
Steel 8.8 Metric Thread

N.2 B
Bushing in St360
Surface finishing
white zinc-plating

N.1 C5 30 ##
Clamp body
(Two clamp halves)
in Rubber

N.1 P5
Weld plate in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp C5 type side by side in polypropylene for pipe with outside diameter of 30mm, with double weld plate.



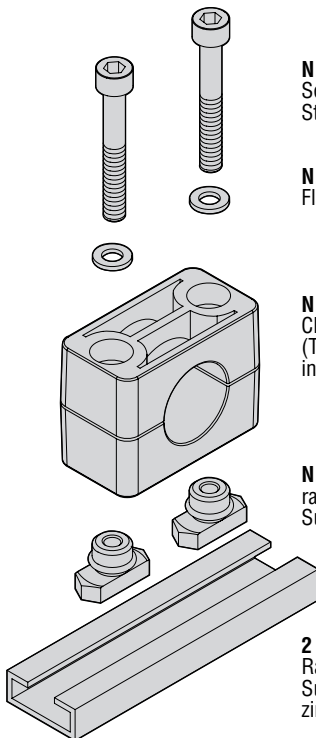
N.4 TCEI M6x35
Socketed cap screw
Steel 8.8 Metric Thread

N.4 RP
Flat washer in St360

N.2 C5 30 ##
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PD5
Weld double plate in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp C5 in Polypropylene for pipe with outside diameter of 30mm, mounting rail nut.



N.2 TCEI M6x35
Socketed cap screw
Steel 8.8 Metric Thread

N.2 RP
Flat washer in St360

N.1 C5 30 ##
Clamp body
(Two clamp halves)
in Polypropylene

N.2 DFM06+AG
rail nut in steel C20 Metric thread
Surface finishing white zinc-plating

2 Meters BB 28x11
Rail in steel DX 51D
Surface finishing
zinc-plating

NOTES

: Material clamp body

PP: Polypropylene

PA: Polyamide

A: Aluminium

GM: Rubber

Material ring AG: Rubber NBR

MECHANICAL CHARACTERISTICS

Hardness shore: 70 A (ASTM D 2240)

Density: g/cm³ 1.25 (ASTM D 792)

Tensile strength: MPa 14.3 (ASTM D 412 C)

Elongation at break: % 390

Tear strength: N/mm 49 (ASTM D 624 B)

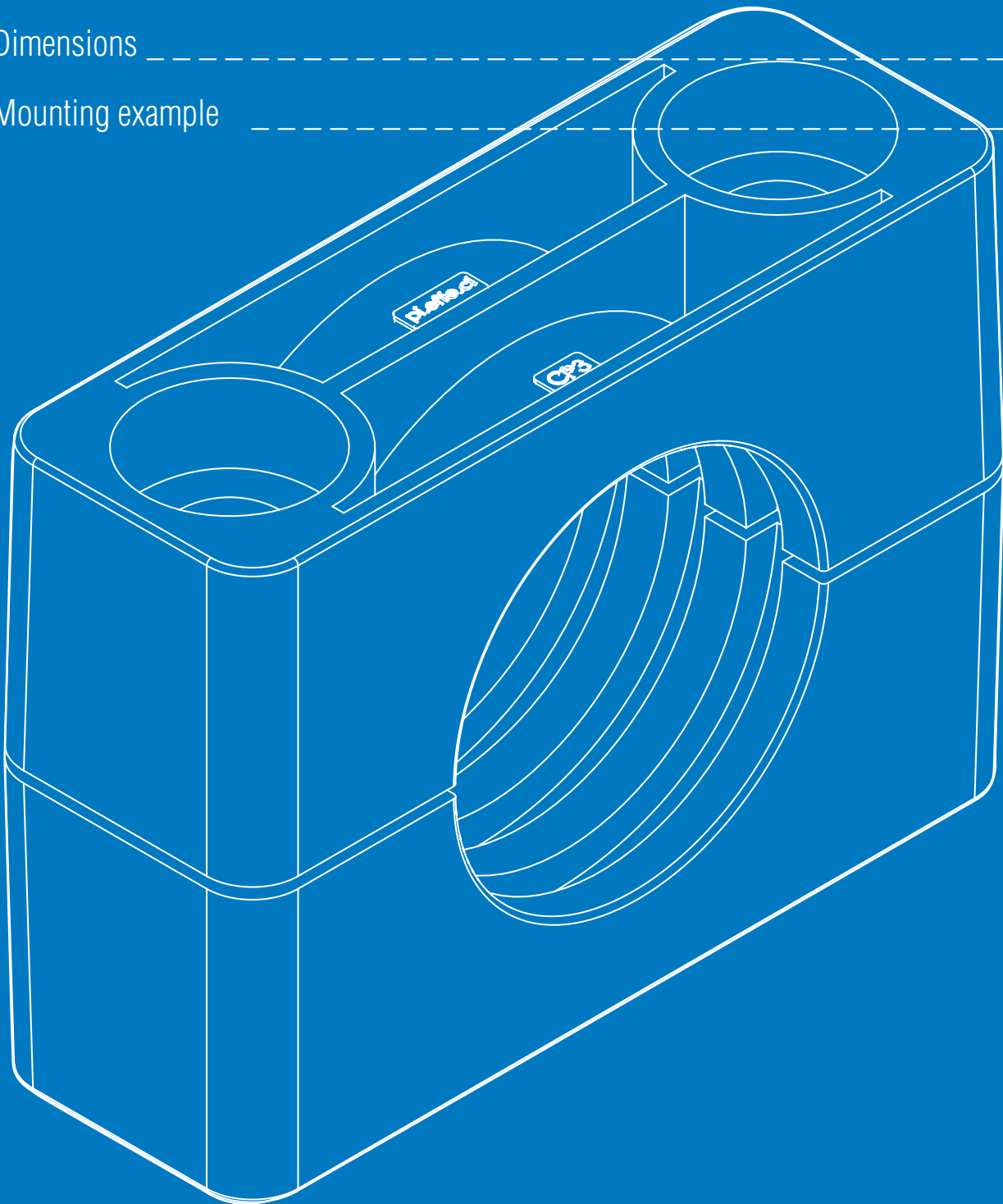
THERMAL CHARACTERISTICS

Operating temperature range: -30°C to +120°C

HEAVY Series Clamps

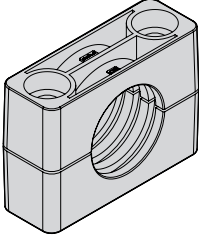
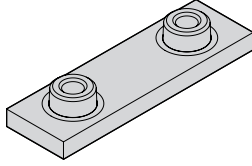
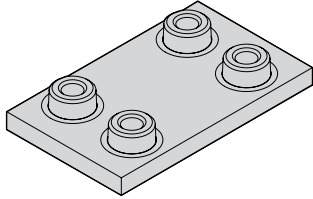
DIN 3015, Part 2

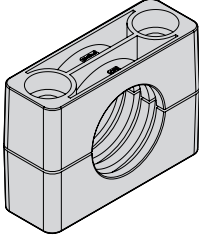
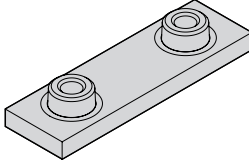
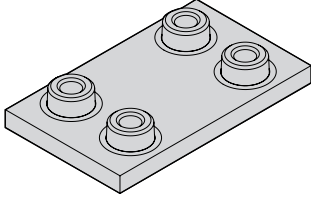
- Order codes p 14
- Dimensions p 18
- Mounting example p 23



PIPE CLAMPS - HEAVY SERIES

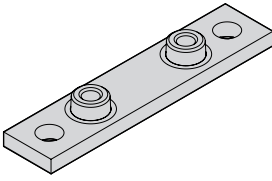
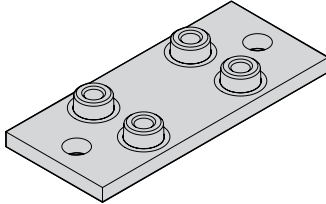
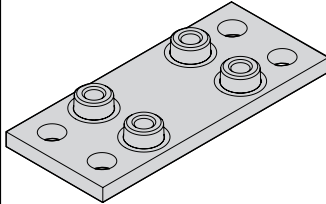
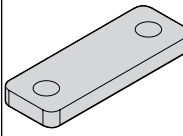
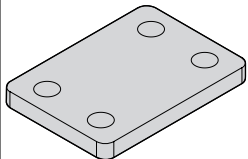
Order Codes

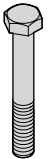
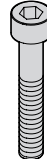
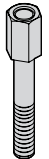

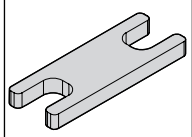

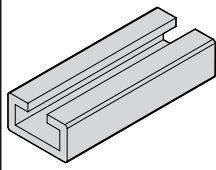
| PIPE CLAMPS MATERIAL | | | | Clamp body (two clamp halves) | | | Single weld plate P CP | | Double weld plate CDP CP | |
|--|-------------------------|---------------------------------|---------|--|------------------------------|---------------------------|---|-------------------|--|-------------------|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. | | | |  <p>TYPE 1-10</p> | | |  <p>TYPE 1-10</p> | |  <p>TYPE 1-10</p> | |
| Code PA : Polyamide material Colour Black . | | | | | | | | | | |
| Code GM : Rubber Elastomer material Colour Black from CP1 to CP5. | | | | | | | | | | |
| Code AL : Aluminium material Colour Aluminium . | | | | | | | | | | |
| Internal surface clamp body Profiled . | | | | | | | | | | |
| For Dimensions see pages 18-22. For material characteristics see pages 24, 78 and 80. | | | | | | | | | | |
| Components description | | | | ## - ##, ## - ## | | | P CP# XP CP# | | CDP CP# XCDP CP# | |
| Code PI, EFFE, CI. Clamp body | O. D. of Pipe/Tube/Hose | | | Code PI, EFFE, CI. Type | Outside diameter in mm | Material of clamp body | Single weld plate S1430 and AISI 316L Type | Type of thread | Double weld plate S1430 and AISI 316L Type | Type of thread |
| | in mm | nominal bore pipe in inch | in inch | | | | | | | |
| CP1 AL CP1 | 6 | | | CP1 | 6 | ## | P CP1 XP CP1 | M10 | CDP CP1 XCDP CP1 | M10 |
| | 6,4 | | 1/4" | CP1 | 6,4 | ## | | | | |
| | 8 | | | CP1 | 8 | ## | | | | |
| | 9,5 | | 3/8" | CP1 | 9,5 | ## | | | | |
| | 10 | 1/8" | | CP1 | 10 | ## | | | | |
| | 12 | | | CP1 | 12 | ## | | | | |
| | 12,7 | | 1/2" | CP1 | 12,7 | ## | | | | |
| | 13,5 | 1/4" | | CP1 | 13,5 | ## | | | | |
| | 14 | | | CP1 | 14 | ## | | | | |
| | 15 | | | CP1 | 15 | ## | | | | |
| | 16 | | 5/8" | CP1 | 16 | ## | | | | |
| | 17,2 | 3/8" | | CP1 | 17,2 | ## | | | | |
| 18 | | | CP1 | 18 | ## | | | | | |
| 19 | | 3/4" | CP1 | 19 | ## | | | | | |
| 20 | | | CP1 | 20 | ## | | | | | |
| CP2 AL CP2 | 19 | | 3/4" | CP2 | 19 | ## | P CP2 XP CP2 | M10 | CDP CP2 XCDP CP2 | M10 |
| | 20 | | | CP2 | 20 | ## | | | | |
| | 21,3 | 1/2" | | CP2 | 21,3 | ## | | | | |
| | 22 | | 7/8" | CP2 | 22 | ## | | | | |
| | 25 | | | CP2 | 25 | ## | | | | |
| | 25,4 | | 1" | CP2 | 25,4 | ## | | | | |
| | 26,9 | 3/4" | | CP2 | 26,9 | ## | | | | |
| 28 | | | CP2 | 28 | ## | | | | | |
| 30 | | | CP2 | 30 | ## | | | | | |
| CP3 AL CP3 | 30 | | | CP3 | 30 | ## | P CP3 XP CP3 | M10 | CDP CP3 XCDP CP3 | M10 |
| | 32 | | 1.1/4" | CP3 | 32 | ## | | | | |
| | 33,7 | 1" | | CP3 | 33,7 | ## | | | | |
| | 35 | | | CP3 | 35 | ## | | | | |
| | 36 | | | CP3 | 36 | ## | | | | |
| | 38 | | 1.1/2" | CP3 | 38 | ## | | | | |
| | 40 | | | CP3 | 40 | ## | | | | |
| | 42,4 | 1.1/4" | | CP3 | 42,4 | ## | | | | |
| 43 | | | CP3 | 43 | ## | | | | | |
| 45 | | | CP3 | 45 | ## | | | | | |
| CP4 AL CP4 | 33,7 | 1" | | CP4 | 33,7 | ## | P CP4 XP CP4 | M12 | CDP CP4 XCDP CP4 | M12 |
| | 38 | | 1.1/2" | CP4 | 38 | ## | | | | |
| | 40 | | | CP4 | 40 | ## | | | | |
| | 42,4 | 1.1/4" | | CP4 | 42,4 | ## | | | | |
| | 44,5 | | 1.3/4" | CP4 | 44,5 | ## | | | | |
| | 45 | | | CP4 | 45 | ## | | | | |
| | 48,3 | 1.1/2" | | CP4 | 48,3 | ## | | | | |
| | 50 | | | CP4 | 50 | ## | | | | |
| | 50,8 | | 2" | CP4 | 50,8 | ## | | | | |
| | 53 | | | CP4 | 53 | ## | | | | |
| | 54 | 1.3/4" | | CP4 | 54 | ## | | | | |
| | 55 | | | CP4 | 55 | ## | | | | |
| | 56 | | | CP4 | 56 | ## | | | | |
| | 57,2 | | 2.1/4" | CP4 | 57,2 | ## | | | | |
| | 60,3 | 2" | | CP4 | 60,3 | ## | | | | |
| 63,5 | | 2.1/2" | CP4 | 63,5 | ## | | | | | |
| 65 | | | CP4 | 65 | ## | | | | | |
| 70 | | 2.3/4" | CP4 | 70 | ## | | | | | |

| PIPE CLAMPS MATERIAL | | | | Clamp body (two clamp halves) | | | Single weld plate P CP | | Double weld plate CDP CP | |
|--|------------------------|---------------------------------|---------|--|------------------------------|---------------------------|---|-------------------|--|-------------------|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. | | | |  <p>TYPE 1-10</p> | | |  <p>TYPE 1-10</p> | |  <p>TYPE 1-10</p> | |
| Code PA : Polyamide material Colour Black . | | | | | | | | | | |
| Code GM : Rubber Elastomer material Colour Black from CP1 to CP5. | | | | | | | | | | |
| Code AL : Aluminium material Colour Aluminium . | | | | | | | | | | |
| Internal surface clamp body Profiled . | | | | | | | | | | |
| For Dimensions see pages 18-22. For material characteristics see pages 24, 78 and 80. | | | | | | | | | | |
| Components description | | | | ## - ##, ## - ## | | | P CP# XP CP# # | | CDP CP# XCDP CP# # | |
| Code PI.EFFE.CI. Clamp body | O.D. of Pipe/Tube/Hose | | | Code PI.EFFE.CI. Type | Outside diameter in mm | Material of clamp body | Single weld plate S1430 and AISI 316L Type | Type of thread | Double weld plate S1430 and AISI 316L Type | Type of thread |
| | in mm | nominal bore pipe in inch | in inch | | | | | | | |
| CP5 AL CP5 | 60,3 | 2" | | CP5 | 60,3 | ## | P CP5 XP CP5 | M16 | CDP CP5 XCDP CP5 | M16 |
| | 65 | | | CP5 | 65 | ## | | | | |
| | 66 | 2.1/4" | | CP5 | 66 | ## | | | | |
| | 70 | | 2.3/4" | CP5 | 70 | ## | | | | |
| | 73 | | | CP5 | 73 | ## | | | | |
| | 76,1 | 2.1/2" | 3" | CP5 | 76 | ## | | | | |
| | 80 | | | CP5 | 80 | ## | | | | |
| | 82,5 | | 3.1/4" | CP5 | 82,5 | ## | | | | |
| | 85 | | | CP5 | 85 | ## | | | | |
| | 88,9 | 3" | 3.1/2" | CP5 | 88,9 | ## | | | | |
| 90 | | | CP5 | 90 | ## | | | | | |
| CP6 AL CP6 | 88,9 | 3" | 3.1/2" | CP6 | 88,9 | ## | P CP6 XP CP6 | M20 | CDP CP6 XCDP CP6 | M20 |
| | 100 | | | CP6 | 100 | ## | | | | |
| | 101,6 | | 4" | CP6 | 101,6 | ## | | | | |
| | 102 | 3.1/2" | | CP6 | 102 | ## | | | | |
| | 108 | | 4.1/4" | CP6 | 108 | ## | | | | |
| | 114 | 4" | 4.1/2" | CP6 | 114,3 | ## | | | | |
| | 121 | | | CP6 | 121 | ## | | | | |
| | 126,5 | 4.1/2" | | CP6 | 126,5 | ## | | | | |
| | 127 | | 5" | CP6 | 127 | ## | | | | |
| 133 | | 5.1/4" | CP6 | 133 | ## | | | | | |
| CP7 AL PC7 | 127 | | 5" | CP7 | 127 | ## | P CP7 XP CP7 | M24 | CDP CP7 XCDP CP7 | M24 |
| | 133 | | 5.1/4" | CP7 | 133 | ## | | | | |
| | 140 | 5" | | CP7 | 140 | ## | | | | |
| | 146 | | | CP7 | 146 | ## | | | | |
| | 150 | | | CP7 | 150 | ## | | | | |
| | 152 | | 6" | CP7 | 152 | ## | | | | |
| | 154 | | | CP7 | 154 | ## | | | | |
| | 159 | | 6.1/4" | CP7 | 159 | ## | | | | |
| | 165 | | 6.1/2" | CP7 | 165 | ## | | | | |
| 168 | 6" | | CP7 | 168 | ## | | | | | |
| CP8 AL CP8 | 168 | 6" | | CP8 | 168 | ## | P CP8 XP CP8 | M30 | CDP CP8 XCDP CP8 | M30 |
| | 177,8 | | 7" | CP8 | 177,8 | ## | | | | |
| | 193,7 | | 7.5/8" | CP8 | 193,7 | ## | | | | |
| | 203 | | 8" | CP8 | 203 | ## | | | | |
| | 216 | | 8.1/2" | CP8 | 216 | ## | | | | |
| | 219 | 8" | | CP8 | 219 | ## | | | | |
| CP9 AL CP9 | 219 | 8" | | CP9 | 219 | ## | P CP9 XP CP9 | M30 | CDP CP9 XCDP CP9 | M30 |
| | 273 | 10" | | CP9 | 273 | ## | | | | |
| | 324 | 12" | | CP9 | 324 | ## | | | | |
| CP10 AL CP10 | 356 | 14" | | CP10 | 356 | ## | P CP10 XP CP10 | M30 | CDP CP10 XCDP CP10 | M30 |
| | 406 | 16" | | CP10 | 406 | ## | | | | |

PIPE CLAMPS - HEAVY SERIES

Order Codes

| Elongated weld plate (with screw) PL CP | | Elongated double weld plate (with screw) CDPL CP | | Elongated double weld plate (with screw) CDPL CP | | Upper plate PS CP | Double upper plate CDPS CP |
|---|----------------|---|----------------|--|----------------|---|---|
|  | |  | |  | |  |  |
| TYPE 1-10 | | TYPE 1-7 | | TYPE 8-10 | | TYPE 1-10 | TYPE 1-10 |
| PL CP# XPL CP# | # | CDPL CP# XCDPL CP# | # | CDPL CP# XCDPL CP# | # | PS CP # XPS CP # | CDPS CP # XCDPS CP # |
| Elongated weld plate S430 and AISI 316L Type | Type of thread | Elongated double weld plate S430 and AISI 316L Type | Type of thread | Elongated double weld plate S430 and AISI 316L Type | Type of thread | Upper plate S430 and AISI 316L Type | Double upper plate S430 and AISI 316L Type |
| PL CP1 XPL CP1 | M10 | CDPL CP1 XCDPL CP1 | M10 | --- | --- | PS CP1 XPS CP1 | CDPS CP1 XCDPS CP1 |
| PL CP2 XPL CP2 | M10 | CDPL CP2 XCDPL CP2 | M10 | --- | --- | PS CP2 XPS CP2 | CDPS CP2 XCDPS CP2 |
| PL CP3 XPL CP3 | M10 | CDPL CP3 XCDPL CP3 | M10 | --- | --- | PS CP3 XPS CP3 | CDPS CP3 XCDPS CP3 |
| PL CP4 XPL CP4 | M12 | CDPL CP4 XCDPL CP4 | M12 | --- | --- | PS CP4 XPS CP4 | CDPS CP4 XCDPS CP4 |
| PL CP5 XPL CP5 | M16 | CDPL CP5 XCDPL CP5 | M16 | --- | --- | PS CP5 XPS CP5 | CDPS CP5 XCDPS CP5 |
| PL CP6 XPL CP6 | M20 | CDPL CP6 XCDPL CP6 | M20 | --- | --- | PS CP6 XPS CP6 | CDPS CP6 XCDPS CP6 |
| PL CP7 XPL CP7 | M24 | CDPL CP7 XCDPL CP7 | M24 | --- | --- | PS CP7 XPS CP7 | CDPS CP7 XCDPS CP7 |
| PL CP8 XPL CP8 | M30 | --- | --- | CDPL CP8 XCDPL CP8 | M30 | PS CP8 XPS CP8 | CDPS CP8 XCDPS CP8 |
| PL CP9 XPL CP9 | M30 | --- | --- | CDPL CP9 XCDPL CP9 | M30 | PS CP9 XPS CP9 | CDPS CP9 XCDPS CP9 |
| PL CP10 XPL CP10 | M30 | --- | --- | CDPL CP10 XCDPL CP10 | M30 | PS CP10 XPS CP10 | CDPS CP10 XCDPS CP10 |

| Hexagon head bolt TE CP | | Socket cap screw TCEI CP | | High hexagon head bolt VA CP | | Safety washer RS CP | | Locking plate PB CP | | Rail nut with rubber ring DF P | | Mounting rail BB P | |
|---|-------------------|---|-------------------|---|-------------------|---|---|--|----------------|---|--|---|--|
| For use with upper plate PSCP / CDPSCP EN ISO 4014 / 4017 | | EN ISO 4762 for use without upper plate | | For overlapped clamps | | For use with hexagon head bolt TE / XTE DIN 93 | | For overlapped clamps | | AGP | | TO TYPE 4 | |
|  | |  | |  | |  | |  | |  | |  | |
| TE CP# XTE CP# | # | TCEI CP# XTCEI CP# | # | VA CP# XVA CP# | # | RS CP# XRS CP# | PB CP# XPB CP# | DFP XDFP | # | BB P XBB P | | | |
| Hexagon head bolt Steel 8.8 and A4 Type | Type of thread | Socket cap screw Steel 8.8 and A4 Type | Type of thread | High hexagon head bolt Steel S1360 and AISI 316L Type | Type of thread | Safety washer S1360 and AISI 316L Type | Locking plate S1430 and AISI 316L Type | Rail nut S1360 and AISI 316L | Type of thread | Mounting rail Steel S1360 and AISI 316L | | | |
| TE CP1 XTE CP1 | M10x45 | TCEI CP1 XTCEI CP1 | M10x30 | VA CP1 XVA CP1 | M10 | RS CP1 XRS CP1 10,5 | PB CP1 XPB CP1 | DF P XDF P | M10 | BB P XBB P available length 1m and 2m | | | |
| TE CP2 XTE CP2 | M10x60 | TCEI CP2 XTCEI CP2 | M10x40 | VA CP2 XVA CP2 | M10 | RS CP2 XRS CP2 10,5 | PB CP2 XPB CP2 | | | | | | |
| TE CP3 XTE CP3 | M10x70 | TCEI CP3 XTCEI CP3 | M10x50 | VA CP3 XVA CP3 | M10 | RS CP3 XRS CP3 10,5 | PB CP3 XPB CP3 | | | | | | |
| TE CP4 XTE CP4 | M12x100 | TCEI CP4 XTCEI CP4 | M12x80 | VA CP4 XVA CP4 | M12 | RS CP4 XRS CP4 13,0 | PB CP4 XPB CP4 | DF P XDF P | M12 | | | | |
| TE CP5 XTE CP5 | M16x130 | --- | | VA CP5 XVA CP5 | M16 | RS CP5 XRS CP5 17,0 | PB CP5 XPB CP5 | --- | | --- | | | |
| TE CP6 XTE CP6 | M20x190 | --- | | VA CP6 XVA CP6 | M20 | RS CP6 XRS CP6 21,0 | PB CP6 XPB CP6 | --- | | --- | | | |
| TE CP7 XTE CP7 | M24x220 | --- | | VA CP7 XVA CP7 | M24 | RS CP7 XRS CP7 25,0 | PB CP7 XPB CP7 | --- | | --- | | | |
| TE CP8 XTE CP8 | M30x300 | --- | | VA CP8 XVA CP8 | M30 | RS CP8 XRS CP8 31,0 | PB CP8 XPB CP8 | --- | | --- | | | |
| TE CP9 XTE CP9 | M30x450 | --- | | --- | | RS CP9 XRS CP9 31,0 | --- | --- | | --- | | | |
| TE CP10 XTE CP10 | M30x560 | --- | | --- | | RS CP10 XRS CP10 31,0 | --- | --- | | --- | | | |

PIPE CLAMPS - HEAVY SERIES

Dimensions

| MATERIALS AND TYPE OF THREAD COMPONENTS AND ACCESSORIES | | | | Clamp body (two clamp halves) | | | | | Single weld plate P CP | | | | | Double weld plate CDP CP | | | | | | | | | | | |
|--|---------------------------|---------|--------|---------------------------------|----------------------------|----|-----|--|------------------------|-----|----|-------|--|--------------------------|-----|----|---------------------|--|----|-----|-------------------|----|----|-----|----|
| All components and accessories are available in: Carbon steel St430 with finishing surface in white zinc-coated Fe Zn c8 II. Untreated area available on request. Stainless steel inox 316L : (X2 CrNiMo17-12-2) 1.4404 marked with X identification code. All the components are produced with metric thread, on request are also available with UNC thread. Metric thread: code M . UNC thread: code UNC . For material characteristics see pages 24, 78 and 80. | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | TYPE 1-10 | | | | |
| | | | | Materials description | | | | Material PP-PA-GM code CP Aluminium mat. code AL CP | | | | | Carbon steel St430 code P CP Stainless st. AISI 316L code XP CP | | | | | Carbon steel St430 code CDP CP Stainless st. AISI 316L code XCDP CP | | | | | | | |
| | | | | Code P.I.EFFE.CI. Clamp body | O.D. of Pipe/Tube/Hose ØD1 | | | L1 | L2 | H | S | Width | Code P.I.EFFE.CI. | L1 | L2 | B | S | H | D | ØD1 | Code P.I.EFFE.CI. | L1 | L2 | B1 | B2 |
| in mm | nominal bore pipe in inch | in inch | | | | | | | | | | | | | | | | | | | | | | | |
| CP1 AL CP1 | 6 | | | 57 | 33 | 33 | 1 | 30 | P CP1 XP CP1 | 74 | 33 | 30 | 8 | 8 | M10 | 18 | CDP CP1 XCDP CP1 | 74 | 33 | 60 | 31 | 8 | 8 | M10 | 18 |
| | 6,4 | | 1/4" | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9,5 | | 3/8" | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 1/8" | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12,7 | | 1/2" | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | | 5/8" | | | | | | | | | | | | | | | | | | | | | | |
| CP2 AL CP2 | 17,2 | 3/8" | | 69 | 45 | 49 | 1 | 30 | P CP2 XP CP2 | 86 | 45 | 30 | 8 | 8 | M10 | 18 | CDP CP2 XCDP CP2 | 86 | 45 | 60 | 31 | 8 | 8 | M10 | 18 |
| | 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | | 3/4" | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | | 3/4" | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21,3 | | 1/2" | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | | 7/8" | | | | | | | | | | | | | | | | | | | | | | |
| CP3 AL CP3 | 25 | | | 84 | 60 | 60 | 1,2 | 30 | P CP3 XP CP3 | 100 | 60 | 30 | 8 | 8 | M10 | 18 | CDP CP3 XCDP CP3 | 100 | 60 | 60 | 31 | 8 | 8 | M10 | 18 |
| | 26,9 | | 3/4" | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 32 | | 1.1/4" | | | | | | | | | | | | | | | | | | | | | | |
| | 33,7 | | 1" | | | | | | | | | | | | | | | | | | | | | | |
| | 35 | | | | | | | | | | | | | | | | | | | | | | | | |
| CP4 AL CP4 | 36 | | | 116 | 90 | 88 | 2 | 45 | P CP4 XP CP4 | 140 | 90 | 45 | 10 | 8 | M12 | 20 | CDP CP4 XCDP CP4 | 140 | 90 | 90 | 46 | 10 | 8 | M12 | 20 |
| | 38 | | 1.1/2" | | | | | | | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 42,4 | | 1.1/4" | | | | | | | | | | | | | | | | | | | | | | |
| | 44,5 | | 1.3/4" | | | | | | | | | | | | | | | | | | | | | | |
| | 45 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 48,3 | | 1.1/2" | | | | | | | | | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50,8 | | 2" | | | | | | | | | | | | | | | | | | | | | | |
| | 53 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 54 | | 1.3/4" | | | | | | | | | | | | | | | | | | | | | | |
| | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 56 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 57,2 | | 2.1/4" | | | | | | | | | | | | | | | | | | | | | | |
| 60,3 | | 2" | | | | | | | | | | | | | | | | | | | | | | | |
| 63,5 | | 2.1/2" | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | | 2.3/4" | | | | | | | | | | | | | | | | | | | | | | | |

| MATERIALS AND TYPE OF THREAD COMPONENTS AND ACCESSORIES | | | Clamp body (two clamp halves) | | | | | Single weld plate P CP | | | | | | | Double weld plate CDP CP | | | | | | | | | | |
|--|----------------------------|---------------------------|-------------------------------|-----|-----|----|-------|------------------------|-----|-----|-----|----|----|-----|--------------------------|-----------------------|-----|-----|-----|-----|----|--|-----|-----|---------|
| All components and accessories are available in: Carbon steel St430 with finishing surface in white zinc-coated Fe Zn c8 II. Untreated area available on request. Stainless steel inox 316L : (X2 CrNiMo17-12-2) 1.4404 marked with X identification code. All the components are produced with metric thread, on request are also available with UNC thread. Metric thread: code M . UNC thread: code UNC . For material characteristics see pages 24, 78 and 80. | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | Material PP-PA-GM code CP Aluminium mat. code AL CP | | | |
| Code PI.EFFE.CI. Clamp body | O.D. of Pipe/Tube/Hose ØD1 | | L1 | L2 | H | S | Width | Code PI.EFFE.CI. | L1 | L2 | B | S | H | D | ØD1 | Code PI.EFFE.CI. | L1 | L2 | B1 | B2 | S | H | D | ØD1 | |
| | in mm | nominal bore pipe in inch | | | | | | | | | | | | | | | | | | | | | | | in inch |
| CP5 AL CP5 | 60,3 | 2" | 155 | 122 | 118 | 2 | 60 | P CP5 XP CP5 | 180 | 122 | 60 | 10 | 12 | M16 | 24 | CDP CP5 XCDP CP5 | 180 | 122 | 120 | 61 | 10 | 12 | M16 | 24 | |
| | 65 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 66 | 2.1/4" | | | | | | | | | | | | | | | | | | | | | | | |
| | 70 | 2.3/4" | | | | | | | | | | | | | | | | | | | | | | | |
| | 73 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 76,1 | 2.1/2" | | | | | | | | | | | | | | | | | | | | | | | 3" |
| | 80 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82,5 | 3.1/4" | | | | | | | | | | | | | | | | | | | | | | | |
| | 85 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 88,9 | 3" | | | | | | | | | | | | | | | | | | | | | | | 3.1/2" |
| 90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP6 AL CP6 | 88,9 | 3" | 205 | 168 | 165 | 3 | 80 | P CP6 XP CP6 | 226 | 168 | 80 | 15 | 17 | M20 | 30 | CDP CP6 XCDP CP6 | 226 | 168 | 160 | 81 | 15 | 17 | M20 | 30 | |
| | 100 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 101,6 | 4" | | | | | | | | | | | | | | | | | | | | | | | |
| | 102 | 3.1/2" | | | | | | | | | | | | | | | | | | | | | | | |
| | 108 | 4.1/4" | | | | | | | | | | | | | | | | | | | | | | | |
| | 114,3 | 4" | | | | | | | | | | | | | | | | | | | | | | | 4.1/2" |
| | 121 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 126,5 | 4.1/2" | | | | | | | | | | | | | | | | | | | | | | | |
| | 127 | 5" | | | | | | | | | | | | | | | | | | | | | | | |
| | 133 | 5.1/4" | | | | | | | | | | | | | | | | | | | | | | | |
| CP7 AL CP7 | 127 | 5" | 255 | 205 | 200 | 4 | 90 | P CP7 XP CP7 | 270 | 205 | 90 | 15 | 21 | M24 | 35 | CDP CP7 XCDP CP7 | 270 | 205 | 180 | 91 | 15 | 21 | M24 | 35 | |
| | 133 | 5.1/4" | | | | | | | | | | | | | | | | | | | | | | | |
| | 140 | 5" | | | | | | | | | | | | | | | | | | | | | | | |
| | 146 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 150 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 152 | 6" | | | | | | | | | | | | | | | | | | | | | | | |
| | 154 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 159 | 6.1/4" | | | | | | | | | | | | | | | | | | | | | | | |
| | 165 | 6.1/2" | | | | | | | | | | | | | | | | | | | | | | | |
| | 168 | 6" | | | | | | | | | | | | | | | | | | | | | | | |
| CP8 AL CP8 | 168 | 6" | 320 | 265 | 270 | 4 | 120 | P CP8 XP CP8 | 340 | 265 | 120 | 25 | 21 | M30 | 45 | CDP CP8 XCDP CP8 | 340 | 265 | 240 | 121 | 25 | 21 | M30 | 45 | |
| | 177,8 | 7" | | | | | | | | | | | | | | | | | | | | | | | |
| | 193,7 | 7.5/8" | | | | | | | | | | | | | | | | | | | | | | | |
| | 203 | 8" | | | | | | | | | | | | | | | | | | | | | | | |
| | 216 | 8.1/2" | | | | | | | | | | | | | | | | | | | | | | | |
| CP9 AL CP9 | 219 | 8" | 470 | 395 | 410 | 10 | 160 | P CP9 XP CP9 | 520 | 395 | 160 | 30 | 38 | M30 | 50 | CDP CP9 XCDP CP9 | 520 | 395 | 320 | 166 | 30 | 38 | M30 | 50 | |
| | 273 | 10" | | | | | | | | | | | | | | | | | | | | | | | |
| | 324 | 12" | | | | | | | | | | | | | | | | | | | | | | | |
| CP10 AL CP10 | 356 | 14" | 640 | 534 | 530 | 20 | 180 | P CP10 XP CP10 | 680 | 534 | 180 | 30 | 38 | M30 | 50 | CDP CP10 XCDP CP10 | 680 | 534 | 360 | 186 | 30 | 38 | M30 | 50 | |
| | 406 | 16" | | | | | | | | | | | | | | | | | | | | | | | |

PIPE CLAMPS - HEAVY SERIES

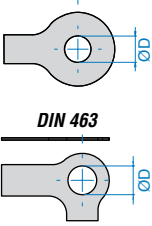
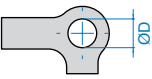
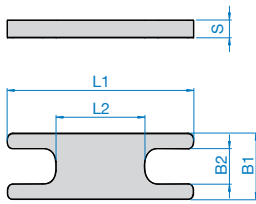
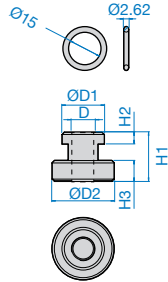
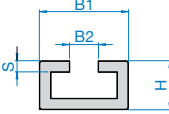
Dimensions

| Elongated single weldplate (with screw) PL CP | | | | | | | | | | | Elongated double weld plate (with screw) CDPL CP | | | | | | | | | | | Elongated double weld plate (with screw) CDPL CP | | | | | | | | | | | | | | | | |
|--|-----|-----|-----|-----|----|----|-----|-----|-----|--|--|-----|-----|-----|-----|----|----|----|-----|-----|-----|--|-------------------------|-----|-----|-----|-----|-----|----|----|-----|-----|-----|--|--|--|--|--|
| <p>TYPE 1-10</p> | | | | | | | | | | | <p>TYPE 1-7</p> | | | | | | | | | | | <p>TYPE 8-10</p> | | | | | | | | | | | | | | | | |
| Carbon steel St430 code PL CP Stainless steel AISI 316L code XPL CP | | | | | | | | | | | Carbon steel St430 code CDPL CP Stainless steel AISI 316L code XCDPL CP | | | | | | | | | | | Carbon steel St430 code CDPL CP Stainless steel AISI 316L code XCDPL CP | | | | | | | | | | | | | | | | |
| Code P.I.EFFE.CI. | L1 | L2 | L3 | B | S | H | D | ØD1 | ØD2 | | Code P.I.EFFE.CI. | L1 | L2 | L3 | B1 | B2 | S | H | D | ØD1 | ØD2 | | Code P.I.EFFE.CI. | L1 | L2 | L3 | B1 | B2 | S | H | D | ØD1 | ØD2 | | | | | |
| PL CP1 XPL CP1 | 113 | 33 | 85 | 30 | 8 | 8 | M10 | 18 | 13 | | CDPL CP1 XCDPL CP1 | 113 | 33 | 85 | 60 | 31 | 8 | 8 | M10 | 18 | 13 | | | | | | | | | | | | | | | | | |
| PL CP2 XPL CP2 | 125 | 45 | 97 | 30 | 8 | 8 | M10 | 18 | 13 | | CDPL CP2 XCDPL CP2 | 125 | 45 | 97 | 60 | 31 | 8 | 8 | M10 | 18 | 13 | | | | | | | | | | | | | | | | | |
| PL CP3 XPL CP3 | 140 | 60 | 112 | 30 | 8 | 8 | M10 | 18 | 13 | | CDPL CP3 XCDPL CP3 | 140 | 60 | 112 | 60 | 31 | 8 | 8 | M10 | 18 | 13 | | | | | | | | | | | | | | | | | |
| PL CP4 XPL CP4 | 187 | 90 | 155 | 45 | 10 | 8 | M12 | 20 | 16 | | CDPL CP4 XCDPL CP4 | 187 | 90 | 155 | 90 | 46 | 10 | 8 | M12 | 20 | 16 | | | | | | | | | | | | | | | | | |
| PL CP5 XPL CP5 | 238 | 122 | 198 | 60 | 10 | 12 | M16 | 24 | 21 | | CDPL CP5 XCDPL CP5 | 238 | 122 | 198 | 120 | 61 | 10 | 12 | M16 | 24 | 21 | | | | | | | | | | | | | | | | | |
| PL CP6 XPL CP6 | 309 | 168 | 259 | 80 | 15 | 17 | M20 | 30 | 26 | | CDPL CP6 XCDPL CP6 | 309 | 168 | 259 | 160 | 81 | 15 | 17 | M20 | 30 | 26 | | | | | | | | | | | | | | | | | |
| PL CP7 XPL CP7 | 370 | 205 | 310 | 90 | 15 | 21 | M24 | 35 | 31 | | CDPL CP7 XCDPL CP7 | 370 | 205 | 310 | 180 | 91 | 15 | 21 | M24 | 35 | 31 | | | | | | | | | | | | | | | | | |
| PL CP8 XPL CP8 | 440 | 265 | 380 | 120 | 25 | 21 | M30 | 45 | 31 | | | | | | | | | | | | | | CDPL CP8 XCDPL CP8 | 440 | 265 | 380 | 240 | 121 | 25 | 21 | M30 | 45 | 31 | | | | | |
| PL CP9 XPL CP9 | 590 | 395 | 530 | 160 | 30 | 38 | M30 | 50 | 31 | | | | | | | | | | | | | | CDPL CP9 XCDPL CP9 | 590 | 395 | 530 | 320 | 166 | 30 | 38 | M30 | 50 | 31 | | | | | |
| PL CP10 XPL CP10 | 750 | 534 | 690 | 180 | 30 | 38 | M30 | 50 | 31 | | | | | | | | | | | | | | CDPL CP10 XCDPL CP10 | 750 | 534 | 690 | 360 | 186 | 30 | 38 | M30 | 50 | 31 | | | | | |

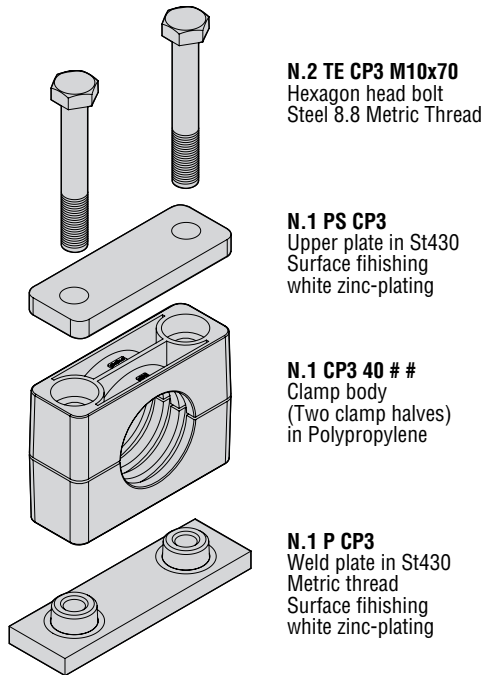
| Upper plate PS CP | | Double upper plate CDPS CP | | | | | | Hexagon head bolt TE CP | | Scket cap screw TCEI CP | | High hexagon head bolt VA CP | | | | | | | | | | | |
|---|-----|---|-----|----|-----|-------------------------|-----|---|-----|--|----|---|---------------------|---------|-----------------------|--------|---------------------|-----|-----|-----|-----|-----|-----|
| <p>TYPE 1-10</p> | | <p>TYPE 1-10</p> | | | | | | <p>EN 4014 / 4017 for use with upper plate PSCP</p> | | <p>ISO 4762</p> <p>TYPE 1-4</p> | | <p>TYPE 1-8</p> | | | | | | | | | | | |
| Carbon st. S1430 code PS CP Stainless st. AISI 316L XPS CP | | Carbon st. S1430 code CDPS CP Stainless st. AISI 316L XCDPS CP | | | | | | Steel 8.8 code TE CP Steel A4 code XTE CP | | Steel 8.8 code TCEI CP Steel A4 code XTCEI CP | | S1360 code VA CP Stainless steel AISI 316L code XVA CP | | | | | | | | | | | |
| Code PI.EFFE.CI. | L1 | L2 | B | S | ØD1 | Code PI.EFFE.CI. | L1 | L2 | B1 | B2 | S | ØD | Code PI.EFFE.CI. | DxL | Code PI.EFFE.CI. | DxL | Code PI.EFFE.CI. | D | L1 | L2 | L3 | CH | |
| PS CP1 XPS CP1 | 56 | 33 | 30 | 8 | 11 | CDPS CP1 XCDPS CP1 | 56 | 33 | 60 | 31 | 8 | 11 | TE CP1 XTE CP1 | M10x45 | TCEI CP1 XTCEI CP1 | M10x30 | VA CP1 XVA CP1 | M10 | 49 | 25 | 18 | 15 | |
| PS CP2 XPS CP2 | 69 | 45 | 30 | 8 | 11 | CDPS CP2 XCDPS CP2 | 69 | 45 | 60 | 31 | 8 | 11 | TE CP2 XTE CP2 | M10x60 | TCEI CP2 XTCEI CP2 | M10x40 | VA CP2 XVA CP2 | M10 | 65 | 40 | 18 | 15 | |
| PS CP3 XPS CP3 | 84 | 60 | 30 | 8 | 11 | CDPS CP3 XCDPS CP3 | 84 | 60 | 60 | 31 | 8 | 11 | TE CP3 XTE CP3 | M10x70 | TCEI CP3 XTCEI CP3 | M10x50 | VA CP3 XVA CP3 | M10 | 77 | 51 | 18 | 15 | |
| PS CP4 XPS CP4 | 115 | 90 | 45 | 10 | 13 | CDPS CP4 XCDPS CP4 | 115 | 90 | 90 | 46 | 10 | 13 | TE CP4 XTE CP4 | M12x100 | TCEI CP4 XTCEI CP4 | M12x80 | VA CP4 XVA CP4 | M12 | 110 | 82 | 25 | 17 | |
| PS CP5 XPS CP5 | 152 | 122 | 60 | 10 | 18 | CDPS CP5 XCDPS CP5 | 152 | 122 | 120 | 61 | 10 | 18 | TE CP5 XTE CP5 | M16x130 | --- | --- | VA CP5 XVA CP5 | M16 | 144 | 110 | 25 | 21 | |
| PS CP6 XPS CP6 | 205 | 168 | 80 | 15 | 22 | CDPS CP6 XCDPS CP6 | 205 | 168 | 160 | 81 | 15 | 22 | TE CP6 XTE CP6 | M20x190 | --- | --- | VA CP6 XVA CP6 | M20 | 200 | 150 | 40 | 27 | |
| PS CP7 XPS CP7 | 251 | 205 | 90 | 15 | 26 | CDPS CP7 XCDPS CP7 | 251 | 205 | 180 | 91 | 15 | 26 | TE CP7 XTE CP7 | M24x220 | --- | --- | VA CP7 XVA CP7 | M24 | 240 | 180 | 50 | 30 | |
| PS CP8 XPS CP8 | 320 | 265 | 120 | 25 | 32 | CDPS CP8 XCDPS CP8 | 320 | 265 | 240 | 121 | 25 | 32 | TE CP8 XTE CP8 | M30x300 | --- | --- | VA CP8 XVA CP8 | M30 | 331 | 256 | 60 | 46 | |
| PS CP9 XPS CP9 | 470 | 395 | 160 | 30 | 32 | CDPS CP9 XCDPS CP9 | 470 | 395 | 320 | 166 | 30 | 32 | TE CP9 XTE CP9 | M30x450 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PS CP10 XPS CP10 | 630 | 534 | 180 | 30 | 35 | CDPS CP10 XCDPS CP10 | 630 | 534 | 361 | 186 | 30 | 35 | TE CP10 XTE CP10 | M30x560 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

PIPE CLAMPS - HEAVY SERIES

Dimensions

| Safety washer RS CP | | Locking plate PB CP | | | | | | Rail nut with rubber ring DFP+AG | | | | | | | Mounting rail BB P | | | | |
|---|------|---|-----|-----|-----|----|----|---|------|-----|----|-----|-----|-----|--|----|----|----|---|
| for use with hexagon head bolt TECP DIN 93  DIN 463  | |  TYPE 1-8 | | | | | |  TO TYPE 4 | | | | | | |  TO TYPE 4 | | | | |
| Carbon steel St360 code RS CP Stainless steel A4 code XRS CP | | Carbon steel St430 code PB CP Stainless steel AISI 316L code XPB CP | | | | | | St360 code DF P Stainless steel AISI 316L code XDF P | | | | | | | Carbon steel St360 code BB P Stainless steel AISI 316L code XBB P | | | | |
| Code PI.EFFE.CI. | ØD | Code PI.EFFE.CI. | L1 | L2 | B1 | B2 | S | Code PI.EFFE.CI. | ØD1 | ØD2 | H1 | H2 | H3 | D | Code PI.EFFE.CI. | B1 | B2 | H | S |
| PS CP1 XPS CP1 | 10,5 | PB CP1 XPB CP1 | 57 | 13 | 30 | 16 | 8 | DF P XDF P + AG | 17,7 | 22 | 21 | 6,6 | 7,4 | M10 | BB P XBB P | 40 | 13 | 22 | 5 |
| PS CP2 XPS CP2 | 10,5 | PB CP2 XPB CP2 | 70 | 26 | 30 | 16 | 8 | | 17,7 | 22 | 21 | 6,6 | 7,4 | M10 | | | | | |
| PS CP3 XPS CP3 | 10,5 | PB CP3 XPB CP3 | 84 | 40 | 30 | 16 | 8 | | 17,7 | 22 | 21 | 6,6 | 7,4 | M10 | | | | | |
| PS CP4 XPS CP4 | 13,0 | PB CP4 XPB CP4 | 114 | 66 | 45 | 18 | 10 | | 18,8 | 26 | 23 | 7 | 8 | M12 | | | | | |
| PS CP5 XPS CP5 | 17,0 | PB CP5 XPB CP5 | 151 | 95 | 60 | 22 | 10 | --- | | | | | | | --- | | | | |
| PS CP6 XPS CP6 | 21,0 | PB CP6 XPB CP6 | 204 | 132 | 80 | 28 | 15 | --- | | | | | | | --- | | | | |
| PS CP7 XPS CP7 | 25,0 | PB CP7 XPB CP7 | 250 | 166 | 90 | 31 | 15 | --- | | | | | | | --- | | | | |
| PS CP8 XPS CP8 | 31,0 | PB CP8 XPB CP8 | 310 | 210 | 120 | 47 | 25 | --- | | | | | | | --- | | | | |
| PS CP9 XPS CP9 | 31,0 | --- | | | | | | --- | | | | | | | --- | | | | |
| PS CP10 XPS CP10 | 31,0 | --- | | | | | | --- | | | | | | | --- | | | | |

Mounting Example of complete clamp CP3 in Polypropylene for pipe with outside diameter of 40mm with single weld plate and upper plate.



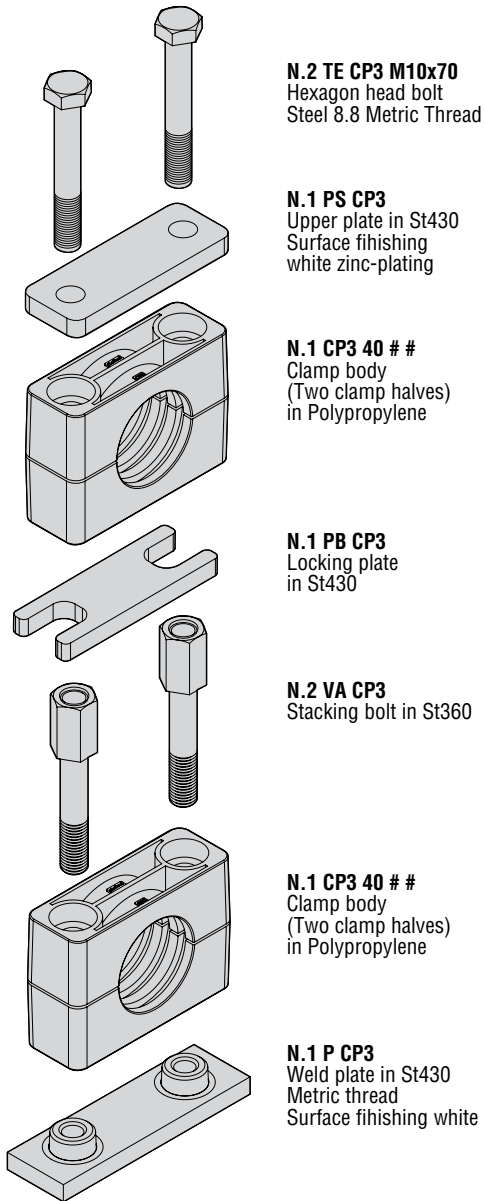
N.2 TE CP3 M10x70
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS CP3
Upper plate in St430
Surface finishing
white zinc-plating

N.1 CP3 40 ##
Clamp body
(Two clamp halves)
in Polypropylene

N.1 P CP3
Weld plate in St430
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete stacked clamp CP3 in Polypropylene for pipe with outside diameter of 40mm with single weld plate and upper plate



N.2 TE CP3 M10x70
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS CP3
Upper plate in St430
Surface finishing
white zinc-plating

N.1 CP3 40 ##
Clamp body
(Two clamp halves)
in Polypropylene

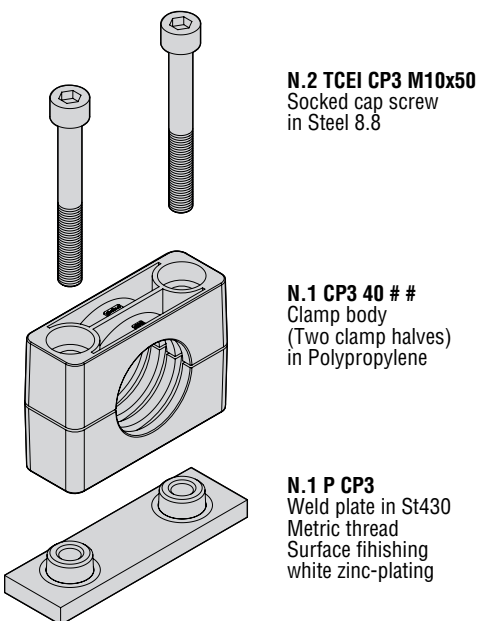
N.1 PB CP3
Locking plate
in St430

N.2 VA CP3
Stacking bolt in St360

N.1 CP3 40 ##
Clamp body
(Two clamp halves)
in Polypropylene

N.1 P CP3
Weld plate in St430
Metric thread
Surface finishing white zinc plating

Mounting Example of complete clamp CP3 in Polypropylene for pipe with outside diameter of 40 mm with single weld plate.



N.2 TCEI CP3 M10x50
Socked cap screw
in Steel 8.8

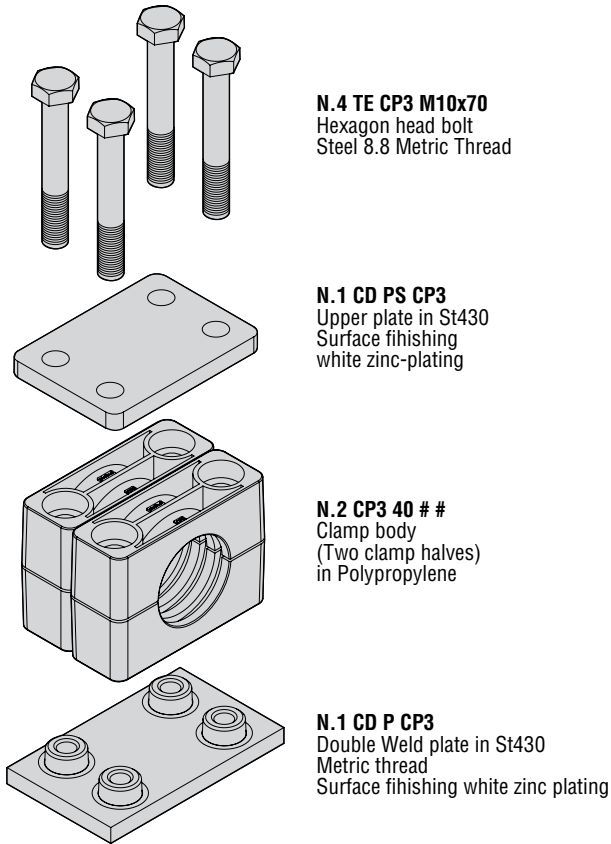
N.1 CP3 40 ##
Clamp body
(Two clamp halves)
in Polypropylene

N.1 P CP3
Weld plate in St430
Metric thread
Surface finishing
white zinc-plating

PIPE CLAMPS - HEAVY SERIES

Mounting Example

Mounting Example of complete clamp CP3 in Polypropylene for pipe with outside diameter of 40mm with double weld plate and double upper plate.



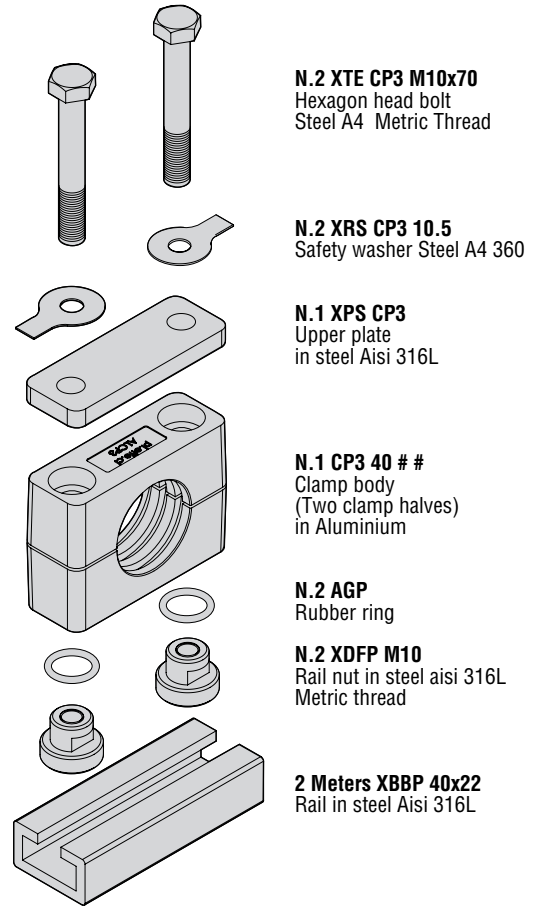
N.4 TE CP3 M10x70
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 CD PS CP3
Upper plate in St430
Surface finishing white zinc-plating

N.2 CP3 40 ##
Clamp body
(Two clamp halves)
in Polypropylene

N.1 CD P CP3
Double Weld plate in St430
Metric thread
Surface finishing white zinc plating

Mounting Example of complete clamp CP3 in Aluminium for pipe with outside diameter of 40mm, mounting rail nut.



N.2 XTE CP3 M10x70
Hexagon head bolt
Steel A4 Metric Thread

N.2 XRS CP3 10.5
Safety washer Steel A4 360

N.1 XPS CP3
Upper plate
in steel Aisi 316L

N.1 CP3 40 ##
Clamp body
(Two clamp halves)
in Aluminium

N.2 AGP
Rubber ring

N.2 XD FP M10
Rail nut in steel aisi 316L
Metric thread

2 Meters XBBP 40x22
Rail in steel Aisi 316L

NOTES

: Material clamp body

PP: Polypropylene

PA: Polyamide

A: Aluminium

GM: Rubber

Material ring AG: Rubber NBR

MECHANICAL CHARACTERISTICS

Hardness shore: 70 A (ASTM D 2240)

Density: g/cm³ 1.25 (ASTM D 792)

Tensile strength: MPa 14.3 (ASTM D 412 C)

Elongation at break: % 390

Tear strength: N/mm 49 (ASTM D 624 B)

THERMAL CHARACTERISTICS

Operating temperature range: -30°C to +120°C

TWIN Series Clamps

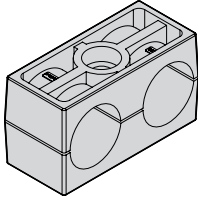
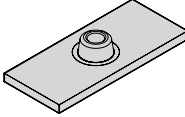
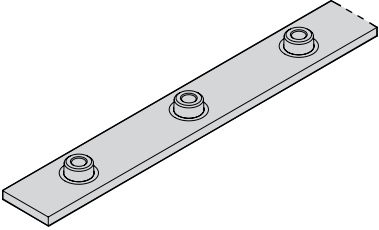
DIN 3015, Part 3

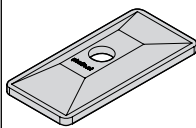
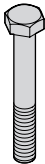

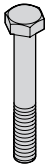
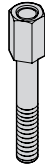
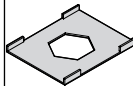
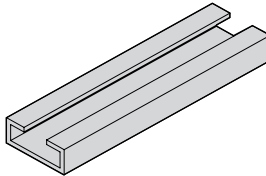
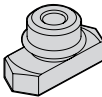
- Order codes p 26
- Dimensions p 28
- Mounting example p 31
- Aluminium Twin Series Clamps p 32



PIPE CLAMPS - TWIN SERIES

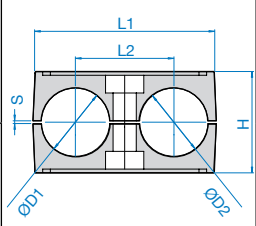
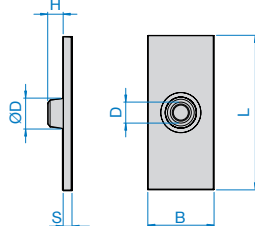
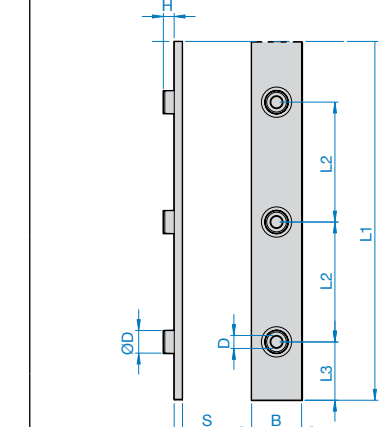
Order Codes

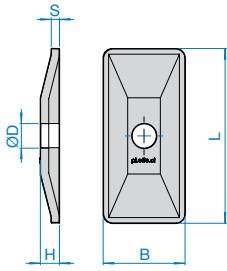
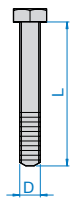
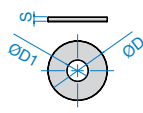
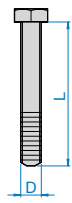
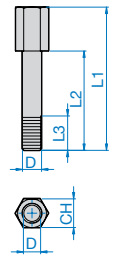
| PIPE CLAMPS MATERIAL | | | | Clamp body (two clamp halves) | | | Single weld plate P CF | | Multiple weld plate PM CF | | |
|--|------------------------|------------------------------|---------|---|------------------------|------------------------|--|----------------|---|----------------|------------------|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. | | | |  <p style="text-align: center;">TYPE 1-5</p> | | |  <p style="text-align: center;">TYPE 1-5</p> | |  <p style="text-align: center;">TYPE 1-5</p> | | |
| Code PA : Polyamide material Colour Black . | | | | | | | | | | | |
| Code GM : Rubber Elastomer material Colour Black . | | | | | | | | | | | |
| Internal surface clamp body Knurled . | | | | | | | | | | | |
| NB Different diameters are available on demand. | | | | | | | | | | | |
| For Dimensions see pages 28-30. For materials characteristics see pages 31, 78 and 80. | | | | | | | | | | | |
| Components description | | | | ## - ##, ## - ## | | | P CF# XP CF# | # | PM CF# XPM CF# | # | |
| Code PI.EFFE.CI. Clamp body | O.D. of Pipe/Tube/Hose | | | Code PI.EFFE.CI. | Outside diameter in mm | Material of clamp body | Single weld plate S1360 and AISI 316L Type | Type of thread | Multiple weld plate S1360 and AISI 316L Type | Type of thread | Number of clamps |
| | in mm | Nominal bore pipe in inch | in inch | | | | | | | | |
| CF1 | 6 | | | CF1 | 6 | ## | P CF1 XP CF1 | M6 | PM CF1 XPM CF1 | M6 | 5 |
| | 6,4 | | 1/4" | CF1 | 6,4 | ## | | | | | |
| | 8 | | 5/16" | CF1 | 8 | ## | | | | | |
| | 9,5 | | 3/8" | CF1 | 9,5 | ## | | | | | |
| | 10 | 1/8" | | CF1 | 10 | ## | | | | | |
| | 12 | | | CF1 | 12 | ## | | | | | |
| | 12,7 | | 1/2" | CF1 | 12,7 | ## | | | | | |
| CF2 | 12,7 | | 1/2" | CF2 | 12,7 | ## | P CF2 XP CF2 | M8 | PM CF2 XPM CF2 | M8 | 5 |
| | 13,5 | 1/4" | | CF2 | 13,5 | ## | | | | | |
| | 14 | | | CF2 | 14 | ## | | | | | |
| | 15 | | | CF2 | 15 | ## | | | | | |
| | 16 | | 5/8" | CF2 | 16 | ## | | | | | |
| | 17,2 | 3/8" | | CF2 | 17,2 | ## | | | | | |
| | 18 | | | CF2 | 18 | ## | | | | | |
| CF3 | 19 | | 3/4" | CF3 | 19 | ## | P CF3 XP CF3 | M8 | PM CF3 XPM CF3 | M8 | 5 |
| | 20 | | | CF3 | 20 | ## | | | | | |
| | 21,3 | 1/2" | | CF3 | 21,3 | ## | | | | | |
| | 22 | | 7/8" | CF3 | 22 | ## | | | | | |
| | 23 | | | CF3 | 23 | ## | | | | | |
| | 24 | | | CF3 | 24 | ## | | | | | |
| | 25 | | | CF3 | 25 | ## | | | | | |
| | 25,4 | | 1" | CF3 | 25,4 | ## | | | | | |
| CF4 | 26 | | | CF4 | 26 | ## | P CF4 XP CF4 | M8 | PM CF4 XPM CF4 | M8 | 5 |
| | 26,9 | 3/4" | | CF4 | 26,9 | ## | | | | | |
| | 28 | | | CF4 | 28 | ## | | | | | |
| | 30 | | | CF4 | 30 | ## | | | | | |
| CF5 | 32 | | 1.1/4" | CF5 | 32 | ## | P CF5 XP CF5 | M8 | PM CF5 XPM CF5 | M8 | 5 |
| | 33,7 | 1" | | CF5 | 33,7 | ## | | | | | |
| | 35 | | | CF5 | 35 | ## | | | | | |
| | 38 | | 1.1/2" | CF5 | 38 | ## | | | | | |
| | 40 | | | CF5 | 40 | ## | | | | | |
| | 42,4 | 1.1/4" | | CF5 | 42,4 | ## | | | | | |

| Upper plate PS CF | Hexagon head bolt TE | Flat washer RP | Hexagon head bolt TER | High hexagon head bolt VA | Locking plate PB CF | Mounting rail BB | Rail nut with rubber ring DF+AG | | | |
|--|--|---|---|--|--|---|---|--|--|--|
|  TYPE 1-5 | EN ISO 4014 / 4017 for use with upper plate PS CF  | For use with hexagon head bolt TER  | EN ISO 4014 / 4017 for use with flat washer RP  | For overlapped clamps  | For overlapped clamps  |  |  | | | |
| PS CF# XPS CF# | TE CF# XTE CF# | # | RP | TE CF# XTE CF# | # | VA CF# XVA CF# | # | PB CF # XPB CF # | BB XBB | DF - # XDF - # |
| Single weld plate S3360 and AISI 316L Type | Hexagon head bolt Steel 8.8 and A4 Type | Type of thread | Flat washer S3360 and A4 | Hexagon head bolt Steel 8.8 and A4 Type | Type of thread | High hexagon head bolt S3360 and AISI316L Type | Type of thread | Locking plate S3360 and AISI 316L Type | Mounting rail Steel DX51D and AISI 316L | Rail nut Steel C20 and AISI316L Type of thread |
| PS CF1 XPS CF1 | TE CF1 | M6x35 | RP 6 XRP 6 for clamp CF1 | TE CF1 XTE CF1 | M6x30 | VA CF1 XVA CF1 | M6 | PB CF1 XPB CF1 | | DF CF1 XDF CF1 |
| PS CF2 XPS CF2 | TE CF2 | M8x35 | | TE CF2 XTE CF2 | M8x30 | VA CF2 XVA CF2 | M8 | | | |
| PS CF3 XPS CF3 | TE CF3 | M8x45 | RP 8 XRP 8 for clamps CF2-CF5 | TE CF3 XTE CF3 | M8x40 | VA CF3 XVA CF3 | M8 | PB XPB for clamps CF2-CF5 | BB XBB Available heights 11, 14 and 30mm Available lengths 2m | DF XDF for clamps CF2-CF5 |
| PS CF4 XPS CF4 | TE CF4 | M8x50 | | TE CF4 XTE CF4 | M8x45 | VA CF4 XVA CF4 | M8 | | | |
| PS CF5 XPS CF5 | TE CF5 | M8x60 | | TE CF5 XTE CF5 | M8x55 | VA CF5 XVA CF5 | M8 | | | |

PIPE CLAMPS - TWIN SERIES

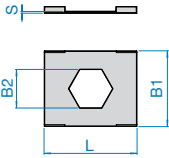
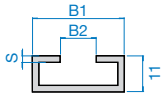
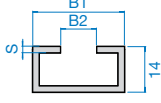
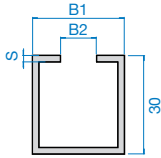
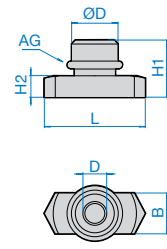
Dimensions

| MATERIALS AND TYPE OF THREAD COMPONENTS AND ACCESSORIES | | | | Clamp body (two clamp halves) | | | | | Single weld plate P CF | | | | | | Multiple weld plate PM CF | | | | | | | | | |
|---|----------------------------------|---------------------------|---------|---|----|----|-----|---------------------------|---|-----|----|---|--|----|--|-------------------|-----|-----|--|----|---|-----|----|-----|
| All components and accessories are available in: Carbon steel St360 with finishing surface in white zinc-coated Fe Zn c8 II. Untreated area available on request. Stainless steel inox 316L : (X2 CrNiMo17-12-2) 1.4404 marked with X identification code. NB The BB track is treated with zinc-plating SENDZIMIR . All the components are produced with metric thread, on request are also available with UNC thread. Metric thread: code M . UNC thread: code UNC . For material characteristics see pages 31, 78 and 80. | | | |  | | | | |  | | | | | |  | | | | | | | | | |
| | | | | TYPE 1-5 | | | | | TYPE 1-5 | | | | | | TYPE 1-5 | | | | | | | | | |
| | | | | Materials description | | | | Material PP-PA-GM code CF | | | | | Carbon steel St360 code P CF Stainless steel AISI 316L code XP CF | | | | | | Carbon steel St360 code PM CF Stainless steel AISI 316L code XPM CF | | | | | |
| Code P.I.EFFE.CI. Clamp body | O.D. of Pipe/Tube/Hose ØD1 / ØD2 | | | L1 | L2 | H | S | Width | Code P.I.EFFE.CI. | L | B | S | H | ØD | D | Code P.I.EFFE.CI. | L1 | L2 | L3 | B | S | H | ØD | CF1 |
| | in mm | nominal bore pipe in inch | in inch | | | | | | | | | | | | | | | | | | | | | |
| CF1 | 6 | | | 36 | 20 | 27 | 0,6 | 30 | P CF1 XP CF1 | 37 | 30 | 3 | 6,5 | 12 | M6 | PM CF1 XPM CF1 | 196 | 40 | 18 | 30 | 3 | 6,5 | 12 | M6 |
| | 6,4 | | 1/4" | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | 5/16" | | | | | | | | | | | | | | | | | | | | | |
| | 9,5 | | 3/8" | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 1/8" | | | | | | | | | | | | | | | | | | | | | | |
| | 12,7 | | 1/2" | | | | | | | | | | | | | | | | | | | | | |
| CF2 | 12,7 | | 1/2" | 54 | 29 | 27 | 0,8 | 30 | P CF2 XP CF2 | 55 | 30 | 5 | 6 | 14 | M8 | PM CF2 XPM CF2 | 288 | 58 | 28 | 30 | 5 | 6 | 14 | M8 |
| | 13,5 | 1/4" | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | 5/8" | | | | | | | | | | | | | | | | | | | | | |
| | 16 | | 3/8" | | | | | | | | | | | | | | | | | | | | | |
| | 17,2 | 3/8" | | | | | | | | | | | | | | | | | | | | | | |
| CF3 | 18 | | | 67 | 36 | 37 | 1 | 30 | P CF3 XP CF3 | 70 | 30 | 5 | 6 | 14 | M8 | PM CF3 XPM CF3 | 358 | 72 | 35 | 30 | 5 | 6 | 14 | M8 |
| | 19 | | 3/4" | | | | | | | | | | | | | | | | | | | | | |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | |
| | 21,3 | 1/2" | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | | 7/8" | | | | | | | | | | | | | | | | | | | | | |
| | 23 | | | | | | | | | | | | | | | | | | | | | | | |
| CF4 | 24 | | | 81 | 45 | 42 | 1 | 30 | P CF4 XP CF4 | 85 | 30 | 5 | 6 | 14 | M8 | PM CF4 XPM CF4 | 444 | 90 | 42 | 30 | 5 | 6 | 14 | M8 |
| | 25,4 | | 1" | | | | | | | | | | | | | | | | | | | | | |
| | 26 | | | | | | | | | | | | | | | | | | | | | | | |
| | 26,9 | 3/4" | | | | | | | | | | | | | | | | | | | | | | |
| CF5 | 28 | | | 106 | 56 | 53 | 1,2 | 30 | P CF5 XP CF5 | 110 | 30 | 5 | 6 | 14 | M8 | PM CF5 XPM CF5 | 558 | 112 | 55 | 30 | 5 | 6 | 14 | M8 |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | |
| | 32 | | 1.1/4" | | | | | | | | | | | | | | | | | | | | | |
| | 33,7 | 1" | | | | | | | | | | | | | | | | | | | | | | |
| | 35 | | | | | | | | | | | | | | | | | | | | | | | |
| | 38 | | 1.1/2" | | | | | | | | | | | | | | | | | | | | | |
| 42,4 | 1.1/4" | | | | | | | | | | | | | | | | | | | | | | | |

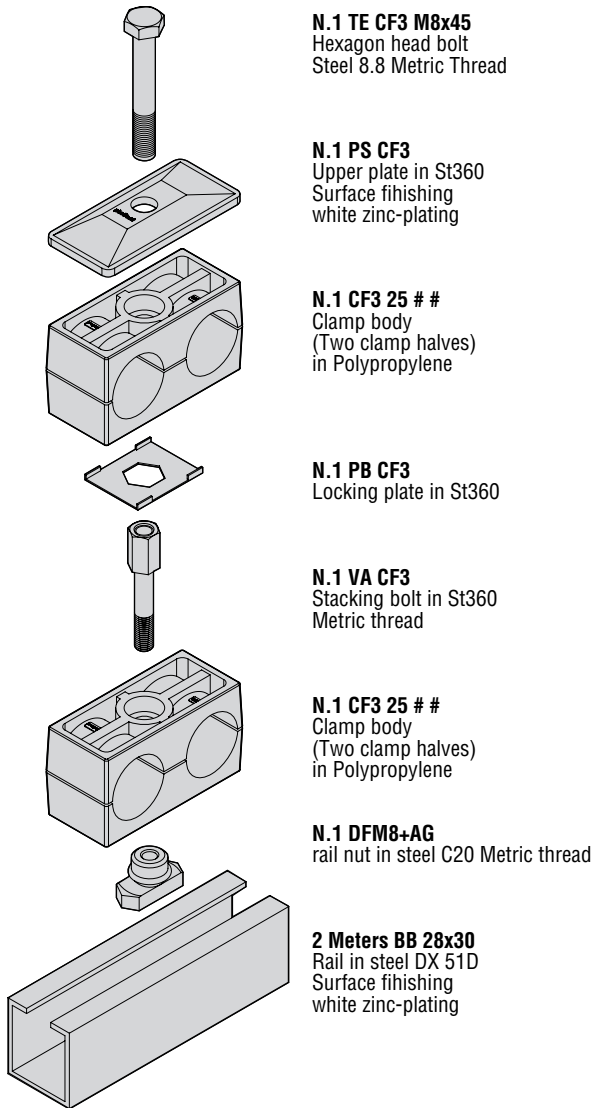
| Upper plate PS CF | | | | | | Hexagon head bolt TE | | Flat washer RP | | | Hexagon head bolt TER | | High hexagon head bolt VA | | | | | | |
|---|-------|----|---|---|----|--|-------|---|----|-----|--|---------------------|--|---------------------|----|----|----|--|----|
|  <p>TYPE 1-5</p> | | | | | | <p>EN ISO 4014 / 4017 for use with upper plate PS CF</p>  | | <p>EN ISO 7089 for use with hexagon head bolt TER</p>  | | | <p>EN ISO 4014 / 4017 for use with flat washer RP</p>  | | <p>For overlapped clamps</p>  | | | | | | |
| | | | | | | | | | | | | | | | | | | Carbon steel St360 code PS CF1 Stainless steel AISI 316L code XPS CF1 | |
| Code PI.EFFE.CI. | L | B | H | S | ØD | Code PI.EFFE.CI. | DxL | Code PI.EFFE.CI. | ØD | ØD1 | S | Code PI.EFFE.CI. | DxL | Code PI.EFFE.CI. | D | L1 | L2 | L3 | CH |
| PS CF1 XPS CF1 | 34,5 | 30 | 7 | 3 | 7 | TE CF1 XTE CF1 | M6x35 | RP CF1 XRP CF1 | 22 | 6,5 | 2 | TER CF1 XTER CF1 | M6x30 | VA CF1 XVA CF1 | M6 | 34 | 20 | 14 | 11 |
| PS CF2 XPS CF2 | 52 | 30 | 7 | 3 | 9 | TE CF2 XTE CF2 | M8x35 | RP CF2-5 XRP CF2-5 | 22 | 8,5 | 2 | TER CF2 XTER CF2 | M8x30 | VA CF2 XVA CF2 | M8 | 33 | 20 | 15 | 12 |
| PS CF3 XPS CF3 | 64 | 30 | 7 | 3 | 9 | TE CF3 XTE CF3 | M8x45 | | | | | TER CF3 XTER CF3 | M8x40 | VA CF3 XVA CF3 | M8 | 44 | 29 | 15 | 12 |
| PS CF4 XPS CF4 | 79 | 30 | 7 | 3 | 9 | TE CF4 XTE CF4 | M8x50 | | | | | TER CF4 XTER CF4 | M8x45 | VA CF4 XVA CF4 | M8 | 49 | 34 | 15 | 12 |
| PS CF5 XPS CF5 | 102,5 | 30 | 7 | 3 | 9 | TE CF5 XTE CF5 | M8x60 | | | | | TER CF5 XTER CF5 | M8x55 | VA CF5 XVA CF5 | M8 | 61 | 46 | 15 | 12 |

PIPE CLAMPS - TWIN SERIES

Dimensions

| Locking plate PB | | | | | Mounting rail BB | | | | Rail nut with rubber ring DF+AG | | | | | | | |
|---|----|----|------|-----|--|----|----|---|---|------|------|------|-----|------|----|--|
| <p><i>For overlapped clamps</i></p>  | | | | | <p>BB 11</p>  <p>BB 14</p>  <p>BB30</p>  | | | |  | | | | | | | |
| | | | | | | | | | | | | | | | | Carbon steel St360 code PB Stainless steel AISI 316L code XPB |
| Code P.I.EFFE.CI. | L | B1 | B2 | S | Code P.I.EFFE.CI. | B1 | B2 | S | Code P.I.EFFE.CI. | L | B | H1 | H2 | ØD | D | AG |
| PB CF1 XPB CF1 | 27 | 22 | 11,2 | 0,5 | | | | | DF CF1 XDF CF1 | 25,5 | 10,4 | 14,5 | 5,5 | 11,8 | M6 | |
| PB CF XPB CF to clamps CF2-CF5 | 27 | 22 | 12,2 | 0,5 | BB XBB | 28 | 11 | 2 | DF CF XDF CF to clamps CF2-CF5 | 25,5 | 10,4 | 13,5 | 5 | 13,8 | M8 | 10x2 |

Mounting Example of complete stacked clamp CF3 in Polypropylene for pipe with outside diameter of 25mm, mounting rail nut.



N.1 TE CF3 M8x45
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS CF3
Upper plate in St360
Surface finishing
white zinc-plating

N.1 CF3 25 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PB CF3
Locking plate in St360

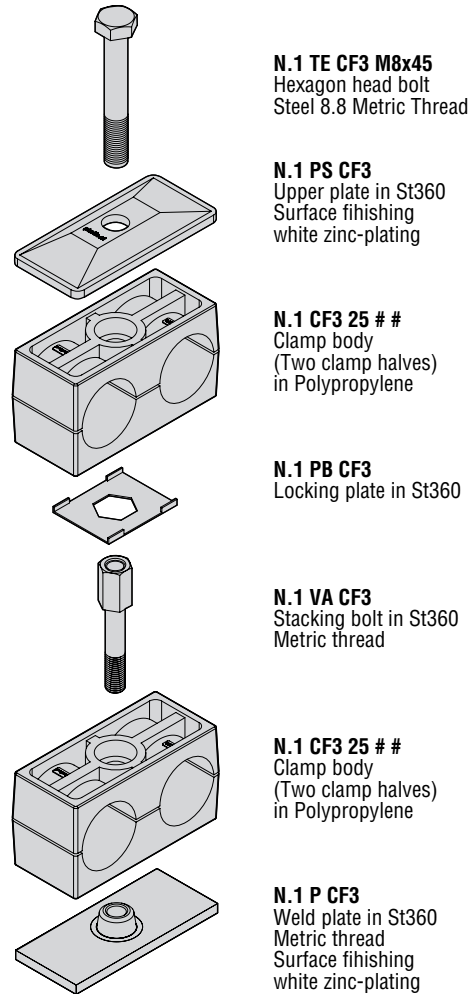
N.1 VA CF3
Stacking bolt in St360
Metric thread

N.1 CF3 25 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 DFM8+AG
rail nut in steel C20 Metric thread

2 Meters BB 28x30
Rail in steel DX 51D
Surface finishing
white zinc-plating

Mounting Example of complete stacked clamp CF3 in Polypropylene for pipe with outside diameter of 25mm, with single weld plate and upper plate.



N.1 TE CF3 M8x45
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS CF3
Upper plate in St360
Surface finishing
white zinc-plating

N.1 CF3 25 # #
Clamp body
(Two clamp halves)
in Polypropylene

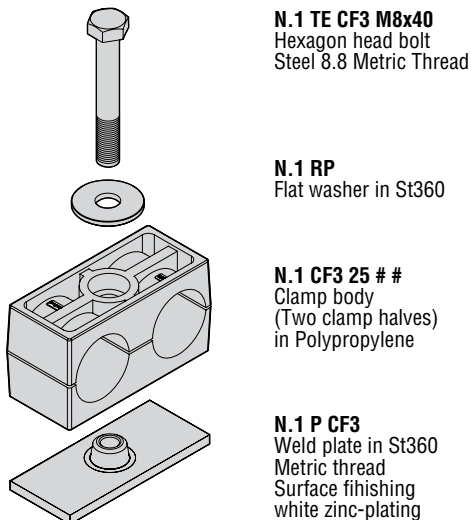
N.1 PB CF3
Locking plate in St360

N.1 VA CF3
Stacking bolt in St360
Metric thread

N.1 CF3 25 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 P CF3
Weld plate in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp CF3 in Polypropylene for pipe with outside diameter of 25mm with single weld plate and flat washer.



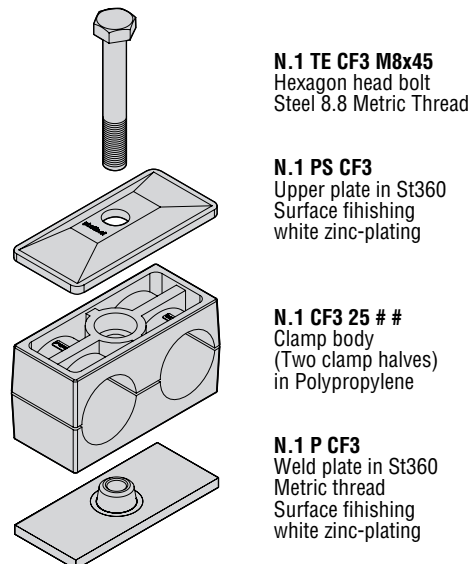
N.1 TE CF3 M8x40
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 RP
Flat washer in St360

N.1 CF3 25 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 P CF3
Weld plate in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp CF3 in Polypropylene for pipe with outside diameter of 25mm with single weld plate and upper plate.



N.1 TE CF3 M8x45
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS CF3
Upper plate in St360
Surface finishing
white zinc-plating

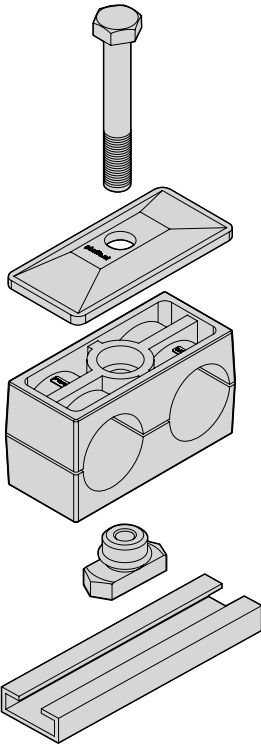
N.1 CF3 25 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 P CF3
Weld plate in St360
Metric thread
Surface finishing
white zinc-plating

PIPE CLAMPS - TWIN SERIES

Mounting Example

Mounting Example of complete stacked clamp CF3 in Polyamide for pipe with outside diameter of 25mm, mounting rail nut.



N.1 TE CF3 M8x45
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS CF3
Upper plate in St360
Surface finishing
white zinc-plating

N.1 CF3 25 # #
Clamp body
(Two clamp halves)
in Polyamide

N.1 DFM8+AG
Rail nut in steel C20 Metric thread

2 Meters BB 28x11
Rail in steel DX 51D
Surface finishing
white zinc-plating

NOTES

: Material clamp body

PP: Polypropylene

PA: Polyamide

A: Aluminium

GM: Rubber

Material ring AG: Rubber NBR

MECHANICAL CHARACTERISTICS

Hardness shore: 70 A (ASTM D 2240)

Density: g/cm³ 1.25 (ASTM D 792)

Tensile strength: MPa 14.3 (ASTM D 412 C)

Elongation at break: % 390

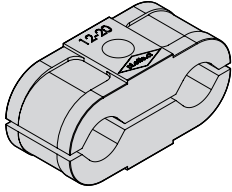
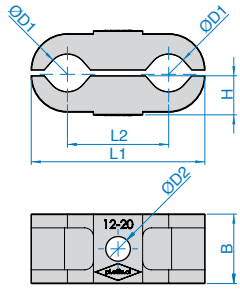
Tear strength: N/mm 49 (ASTM D 624 B)

THERMAL CHARACTERISTICS

Operating temperature range: -30°C to +120°C

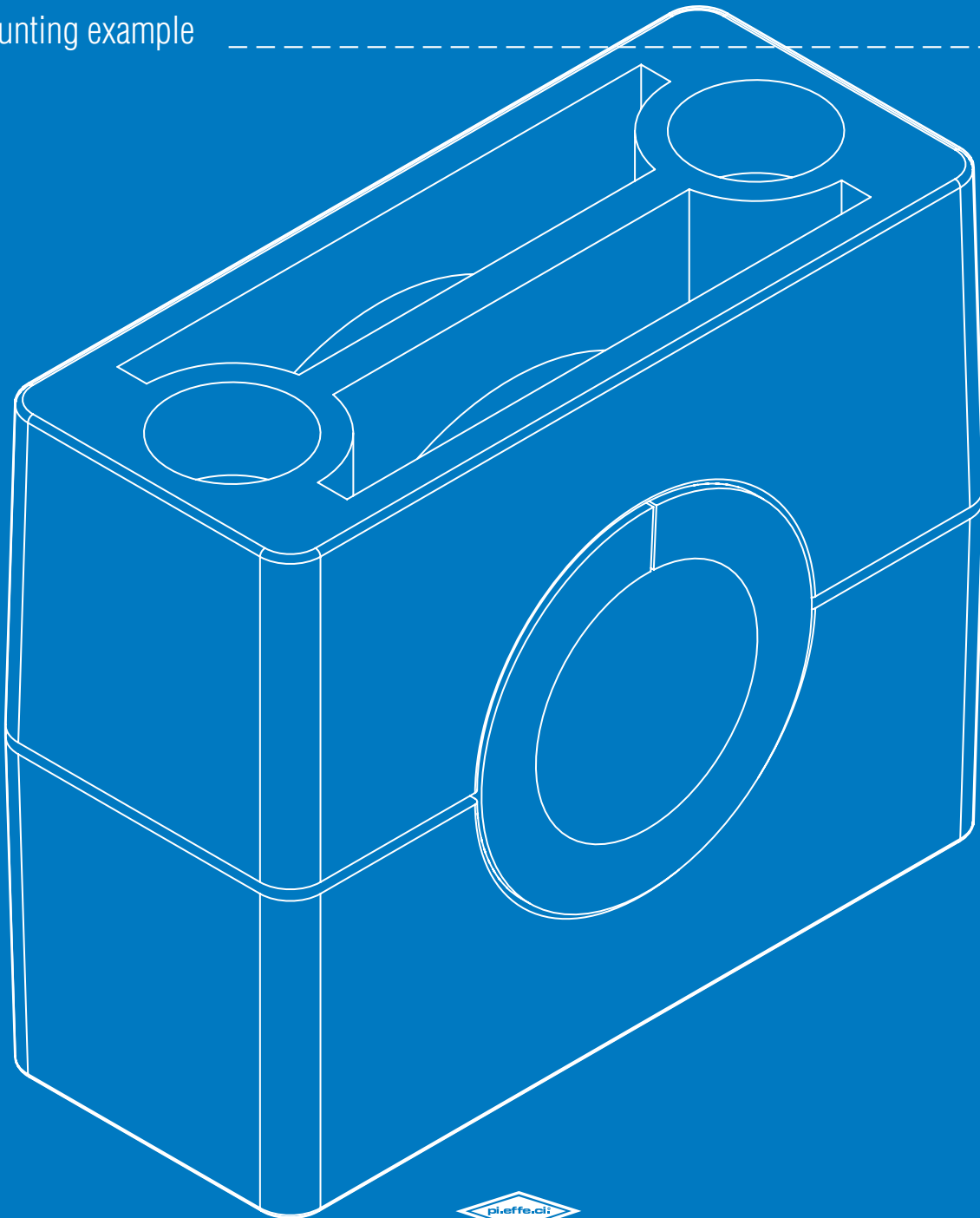
PIPE CLAMPS - ALUMINIUM TWIN SERIES

Order Codes and Dimensions

| PIPE CLAMP MATERIAL | | Clamp body (two clamp halves) | | | | | Hexagon head bolt TE | | | |
|--|--|--|--|--|-----------|----------|---|------------|----------|--|
| Code AL: Aluminium material Colour Aluminium. | |   | | | | | EN ISO 4014 / 4017 | | | |
| Internal surface clamp body smooth. | | | | | | | Steel 8.8 code TE Stainless st. Aisi 316L code XTE | | | |
| For material characteristics, see page 78. | | | | | | | | | | |
| Component description | | Aluminium twin series clamp, for the fixing of hard and flexible hoses, from 12 to 20mm. | | Clamp's design allow them to be used in different applications, for example mobile hydraulic applications. | | | | | | |
| Code PI.EFFE.CI. Clamp body | Outside diameter pipe in mm | Order example | | L1 | L2 | B | ØD1 | ØD1 | H | Mounting hexagon head bolt M8 |
| AL CF | da 12 to 20 | AL CF 12-20 | | 60 | 35 | 24 | from 12 to 20 | 8,5 | 13,5 | from M8x35 to M8x45 |

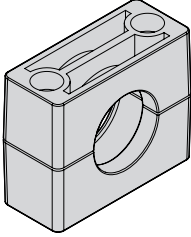
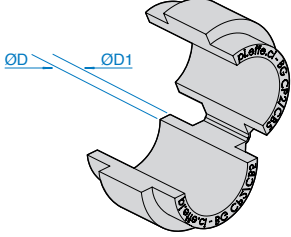
Clamps with RUBBER BUSHING

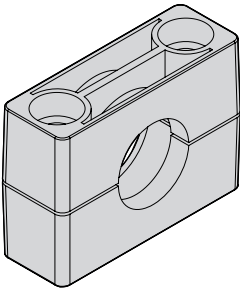
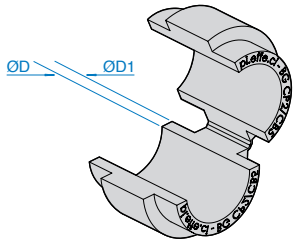
- Order Codes and dimensions **Standard series** DIN 3015, Part 1 _____ p 34
- Order Codes and dimensions **Heavy series** DIN 3015, Part 2 _____ p 35-36
- Mounting example _____ p 37



STANDARD SERIES CLAMPS WITH RUBBER BUSHING

Order Codes

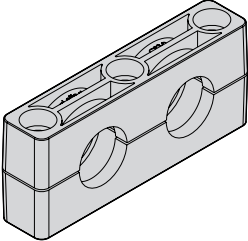
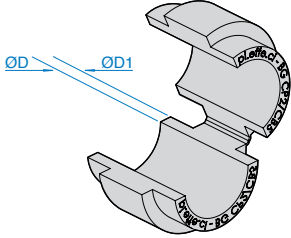
| PIPE CLAMPS AND RUBBER BUSHING MATERIAL | | | | Clamp body (two clamp halves) | | | Rubber bushing BG | | |
|--|------------------------------|------------------------------|---------|---|---------------------------|---------------------------|--|-------------------------|-------|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. | | | |  <p style="text-align: center;">TYPE 5-7</p> | | |  <p style="text-align: center;">TYPE 5-7</p> | | |
| Code PA : Polyamide material Colour Black . | | | | | | | | | |
| Clamp body profiled inside for mounting rubber bushing. NB: Rubber bushing only type 5-7. | | | | | | | | | |
| Rubber bushing BG Material: Rubber Elastomer Colour: Black | | | | | | | | | |
| For materials characteristics see pages 38, 78 and 80. | | | | | | | | | |
| Components description | | | | ## - ##, ## - ## | | | BG # | Rubber material code BG | |
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose ØD | | | Code PI.EFFE.CI. Type | Outside diameter in mm | Material of clamp body | Code Rubber bushing Type | ØD1 | Width |
| | in mm | nominal bore pipe in inch | in inch | | | | | | |
| CB5 | 6 | | | CB5 | 6 | ## | BG CB5 | 25 | 30 |
| | 8 | | 5/16" | CB5 | 8 | ## | | | |
| | 10 | 1/8" | | CB5 | 10 | ## | | | |
| | 12 | | | CB5 | 12 | ## | | | |
| | 12,7 | | 1/2" | CB5 | 12,7 | ## | | | |
| | 14 | | | CB5 | 14 | ## | | | |
| | 15 | | | CB5 | 15 | ## | | | |
| | 16 | | 5/8" | CB5 | 16 | ## | | | |
| | 17,2 | 3/8" | | CB5 | 17,2 | ## | | | |
| | 18 | | | CB5 | 18 | ## | | | |
| 19 | | 3/4" | CB5 | 19 | ## | | | | |
| CB7 | 20 | | | CB7 | 20 | ## | BG CB7 | 38 | 30 |
| | 21,3 | 1/2" | | CB7 | 21,3 | ## | | | |
| | 22 | | 7/8" | CB7 | 22 | ## | | | |
| | 25 | | | CB7 | 25 | ## | | | |
| | 26,9 | 3/4" | | CB7 | 26,9 | ## | | | |
| | 28 | | | CB7 | 28 | ## | | | |
| | 30 | | | CB7 | 30 | ## | | | |
| | 32 | | 1.1/4" | CB7 | 32 | ## | | | |

| PIPE CLAMPS AND RUBBER BUSHING MATERIAL | Clamp body (two clamp halves) | Rubber bushing BG |
|--|---|--|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. |  <p>TYPE 2-6</p> |  <p>TYPE 2-6</p> |
| Code PA : Polyamide material Colour Black . | | |
| Clamp body profiled inside for mounting rubber bushing. NB: Rubber bushing only type 4-6-7. | | |
| Rubber bushing BG Material: Rubber Elastomer Colour: Black | | |
| For materials characteristics see pages 38, 78 and 80. | | |

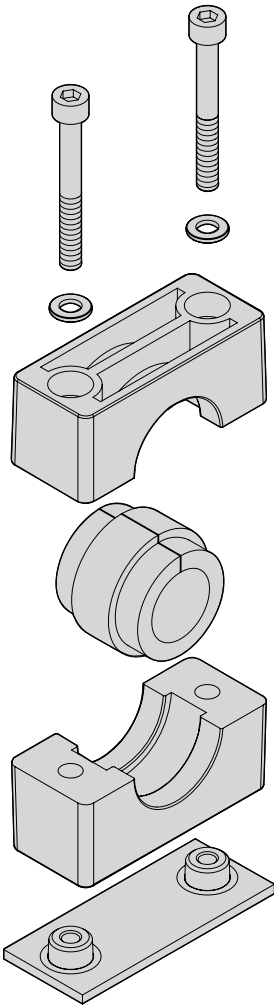
| Components description | | | | ## - ##, ## - ## | | | BG # | Rubber material code BG | |
|--------------------------------|---------------------------|---------------------------|---------|--------------------------|------------------------|------------------------|--------------------------|-------------------------|-------|
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose ØD | | | Code PI.EFFE.CI. Type | Outside diameter in mm | Material of clamp body | Code Rubber bushing Type | ØD1 | Width |
| | in mm | nominal bore pipe in inch | in inch | | | | | | |
| CP2 B | 6 | | | CP2 B | 6 | ## | BG CP2 | 25 | 30 |
| | 8 | | 5/16" | CP2 B | 8 | ## | | | |
| | 10 | 1/8" | | CP2 B | 10 | ## | | | |
| | 12 | | | CP2 B | 12 | ## | | | |
| | 12,7 | | 1/2" | CP2 B | 12,7 | ## | | | |
| | 14 | | | CP2 B | 14 | ## | | | |
| | 15 | | | CP2 B | 15 | ## | | | |
| | 16 | | 5/8" | CP2 B | 16 | ## | | | |
| | 17,2 | 3/8" | | CP2 B | 17,2 | ## | | | |
| CP3 B | 18 | | | CP2 B | 18 | ## | BG CP3 | 38 | 30 |
| | 19 | | 3/4" | CP2 B | 19 | ## | | | |
| | 20 | | | CP3 B | 20 | ## | | | |
| | 21,3 | 1/2" | | CP3 B | 21,3 | ## | | | |
| | 22 | | | CP3 B | 22 | ## | | | |
| | 25 | | | CP3 B | 25 | ## | | | |
| | 26,9 | 3/4" | | CP3 B | 26,9 | ## | | | |
| CP4 B | 28 | | | CP3 B | 28 | ## | BG CP4 | 64 | 45 |
| | 30 | | | CP4 B | 30 | ## | | | |
| | 32 | | 1.1/4" | CP4 B | 32 | ## | | | |
| | 33,7 | 1" | | CP4 B | 33,7 | ## | | | |
| | 35 | | | CP4 B | 35 | ## | | | |
| | 38,7 | | 1.1/2" | CP4 B | 38,7 | ## | | | |
| | 40 | | | CP4 B | 40 | ## | | | |
| | 42,4 | 1.1/4" | | CP4 B | 42,4 | ## | | | |
| | 45,5 | | | CP4 B | 45,5 | ## | | | |
| | 48,3 | 1.1/2" | | CP4 B | 48,3 | ## | | | |
| | 51 | | 2" | CP4 B | 51 | ## | | | |
| CP5 B | 53,4 | | | CP4 B | 53,4 | ## | BG CP5 | 88 | 60 |
| | 56,4 | | | CP4 B | 56,4 | ## | | | |
| | 55 | | | CP5 B | 55 | ## | | | |
| | 57,2 | | 2.1/4" | CP5 B | 57,2 | ## | | | |
| | 58 | | | CP5 B | 58 | ## | | | |
| | 60,3 | 2" | | CP5 B | 60,3 | ## | | | |
| | 63,5 | | 2.1/2" | CP5 B | 63,5 | ## | | | |
| | 65 | | | CP5 B | 65 | ## | | | |
| | 70 | | 2.3/4" | CP5 B | 70 | ## | | | |
| CP6 B | 72 | | | CP5 B | 72 | ## | BG CP6 | 114 | 80 |
| | 73 | | | CP5 B | 73 | ## | | | |
| | 75 | | | CP5 B | 75 | ## | | | |
| | 76,1 | 2.1/2" | 3" | CP5 B | 76,1 | ## | | | |
| | 75 | | | CP6 B | 75 | ## | | | |
| | 80 | | | CP6 B | 80 | ## | | | |
| | 85 | | | CP6 B | 85 | ## | | | |
| CP6 B | 90 | 3" | | CP6 B | 90 | ## | BG CP6 | 114 | 80 |
| | 100 | | | CP6 B | 100 | ## | | | |
| | 102 | 3.1/2" | | CP6 B | 102 | ## | | | |
| | 103 | | | CP6 B | 103 | ## | | | |

HEAVY SERIES CLAMPS WITH RUBBER BUSHING

Order Codes and Dimensions

| PIPE CLAMPS AND RUBBER BUSHING MATERIAL | | | | Clamp body (two clamp halves) | | | Rubber bushing BG | | |
|--|---------------------------|---------------------------|---------|--|------------------------|------------------------|---|-------------------------|-------|
| Code PP : Polipropilene Material Colour Blue . NB: Other colours on demand. | | | |  <p style="text-align: center;">TYPE 2-3</p> | | |  <p style="text-align: center;">TYPE 2-3</p> | | |
| Code PA : Polipropilene Materia Colour Black . | | | | | | | | | |
| Clamp body profiled inside for mounting of rubber bushing. NB: Rubber bushing only type 2-3. | | | | | | | | | |
| Rubber bushing BG : Material Rubber Elastomer . Colour Black . | | | | | | | | | |
| For material characteristics and mounting see pages. 78 e 80. | | | | | | | | | |
| Components description | | | | ## - ##, ## - ## | | | BG # | Rubber material Code BG | |
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose ØD | | | Code PI.EFFE.CI. Type | Outside diameter in mm | Material of clamp body | Code Rubber bushing Type | ØD1 | Width |
| | in mm | nominal bore pipe in inch | in inch | | | | | | |
| CP2D B | 6 | | | CP2D B | 06 | ## | BG CP2 | 25 | 30 |
| | 8 | | 5/16" | CP2D B | 08 | ## | | | |
| | 10 | 1/8" | | CP2D B | 10 | ## | | | |
| | 12 | | | CP2D B | 12 | ## | | | |
| | 12,7 | | 1/2" | CP2D B | 12,7 | ## | | | |
| | 14 | | | CP2D B | 14 | ## | | | |
| | 15 | | | CP2D B | 15 | ## | | | |
| | 16 | | 5/8" | CP2D B | 16 | ## | | | |
| | 17,2 | 3/8" | | CP2D B | 17,2 | ## | | | |
| | 18 | | | CP2D B | 18 | ## | | | |
| 19 | | 3/4" | CP2D B | 19 | ## | | | | |
| CP3D B | 20 | | | CP3D B | 20 | ## | BG CP3 | 38 | 30 |
| | 21,3 | 1/2" | | CP3D B | 21,3 | ## | | | |
| | 22 | | | CP3D B | 22 | ## | | | |
| | 25 | | | CP3D B | 25 | ## | | | |
| | 26,9 | 3/4" | | CP3D B | 26,9 | ## | | | |
| | 28 | | | CP3D B | 28 | ## | | | |
| | 30 | | | CP3D B | 30 | ## | | | |
| | 32 | | 1.1/4" | CP3D B | 32 | ## | | | |

Mounting Example of complete clamp CB7 in Polypropylene with rubber bushing for pipe with outside diameter of 25mm, with single weld plate.



N.2 TCEI M6x60
Socketed cap screw
Steel 8.8 Metric Thread

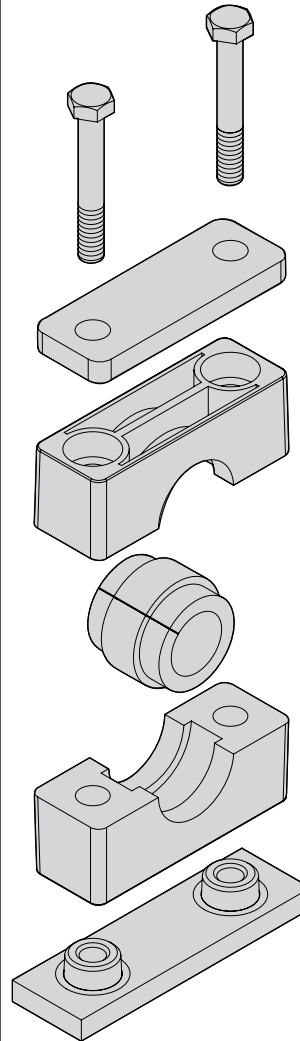
N.2 RP
Flat washer in St360

N.1 CB7 ##
Clamp body
(Two clamp halves)
in Polypropylene

N.1 BG CB7 25
Rubber bushing

N.1 P7
Weld plate in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp CP3-B in Polypropylene with rubber bushing for pipe with outside diameter of 25mm, with single weld plate and upper plate.



N.2 TE CP3 M10x70
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS CP3
Upper plate in St430
Surface finishing
white zinc-plating

N.1 CP3 B ##
Clamp body
(Two clamp halves)
in Polypropylene

N.1 BG CP3 25
Rubber bushing

N.1 P CP3
Weld plate in St430
Metric thread
Surface finishing
white zinc-plating

For mounting clamps standard series with Rubber bushing (CB5 and CB7), use components on pages 4, 5 and 6.

For dimensions standard series, see pages 7, 8 and 9.

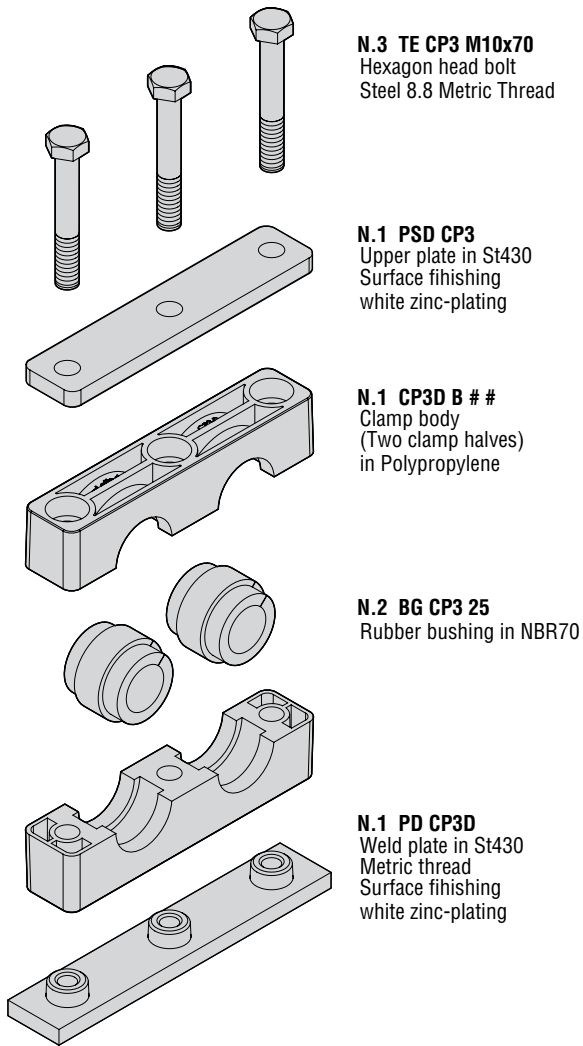
For mounting clamps heavy series with Rubber bushing (CP2B, CP3B, CP4B, CP5B and CP6B), use components on pages 14,15, 16 and 17.

For dimensions heavy series, see pages 19, 20, 21 and 22.

CLAMPS WITH RUBBER BUSHING

Mounting Example

Mounting Example of complete clamp CP3D-B in Polypropylene with rubber bushing for pipe with outside diameter of 25mm, with single weld plate and upper plate.



N.3 TE CP3 M10x70
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PSD CP3
Upper plate in St430
Surface finishing
white zinc-plating

N.1 CP3D B ##
Clamp body
(Two clamp halves)
in Polypropylene

N.2 BG CP3 25
Rubber bushing in NBR70

N.1 PD CP3D
Weld plate in St430
Metric thread
Surface finishing
white zinc-plating

NOTES

: Material clamp body

PP: Polypropylene

PA: Polyamide

Material bushing: Rubber Elastomer.

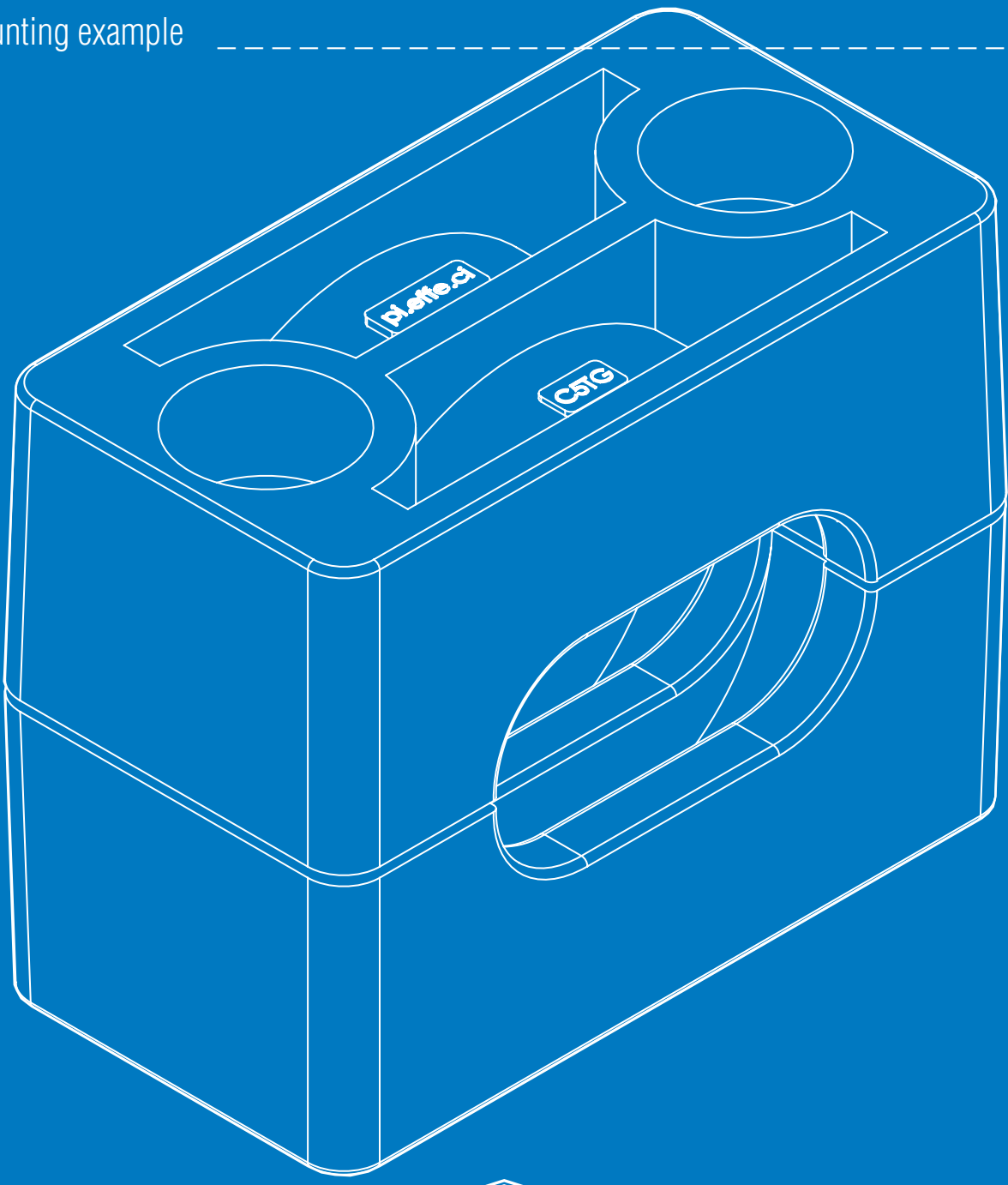
For mounting clamp heavy series with rubber bushing (CP2D B, CP3D B), use components on page 56

For tables and dimensions heavy series see pages 54 and 55.

STANDARD Series Clamps for TWIN PIPES

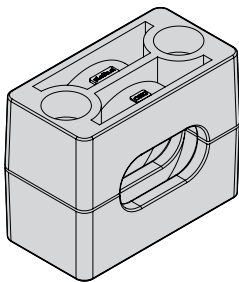
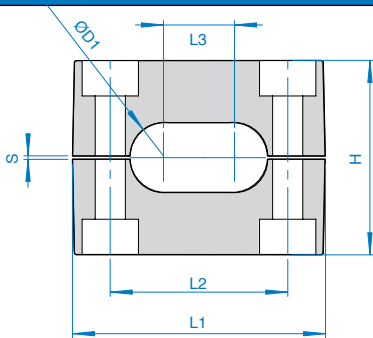
DIN 3015, Part 1

- Order codes p 40
- Dimensions p 40
- Mounting example p 40

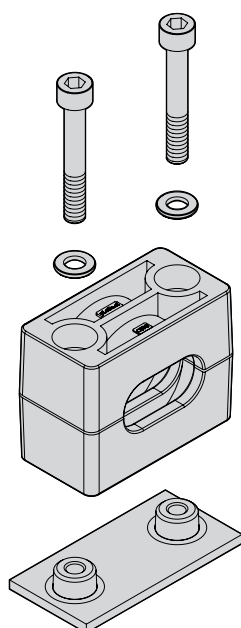


STANDARD SERIES CLAMPS FOR TWIN PIPES

Order Codes

| MATERIALS AND TYPE OF THREAD COMPONENTS AND ACCESSORIES | | | | Clamp body (two clamp halves) | | | Clamp body (two clamp halves) | | | | | |
|--|----------------------------|---------------------------|---------|--|------------------------|------------------------|---|----|----|----|-----|-------|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. | | | |  <p style="text-align: center;">TYPE 4-6</p> | | |  <p style="text-align: center;">TYPE 4-6</p> | | | | | |
| Code PA : Polyamide material Colour Black . | | | | | | | | | | | | |
| Internal surface clamp body Knurled . | | | | | | | | | | | | |
| The clamps are used with components and accessories of the standard series (see pages 4-6). For Dimensions standard series see pages 7-9. | | | | | | | | | | | | |
| Components description | | | | # # - # #, # # - # # | | | Material PP-PA code C TG | | | | | |
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose ØD1 | | | Code PI.EFFE.CI. Type | Outside diameter in mm | Material of clamp body | L1 | L2 | L3 | H | S | Width |
| | in mm | nominal bore pipe in inch | in inch | | | | | | | | | |
| C4 TG | 10-10 | | | C4TG | 10 | # # | 50 | 33 | 10 | 36 | 0,8 | 30 |
| | 12-12 | | | C4TG | 12 | # # | | | 12 | | | |
| C5 TG | 14-14 | | | C5TG | 14 | # # | 57 | 40 | 14 | 42 | 1 | 30 |
| | 16-16 | | | C5TG | 16 | # # | | | 16 | | | |
| C6 TG | 20-20 | | | C6TG | 20 | # # | 71 | 52 | 20 | 58 | 1,4 | 30 |

Mounting Example of complete clamp C5-TG in Polypropylene for twin pipe with outside diameter of 14 mm, with single weld plate.



N.2 TCEI M6x35
Socketed cap screw
Steel 8.8 Metric Thread

N.2 RP
Flat washer in St360

N.1 C5 TG 14 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 P5
Weld plate in St360
Metric thread
Surface finishing
white zinc-plating

NOTES

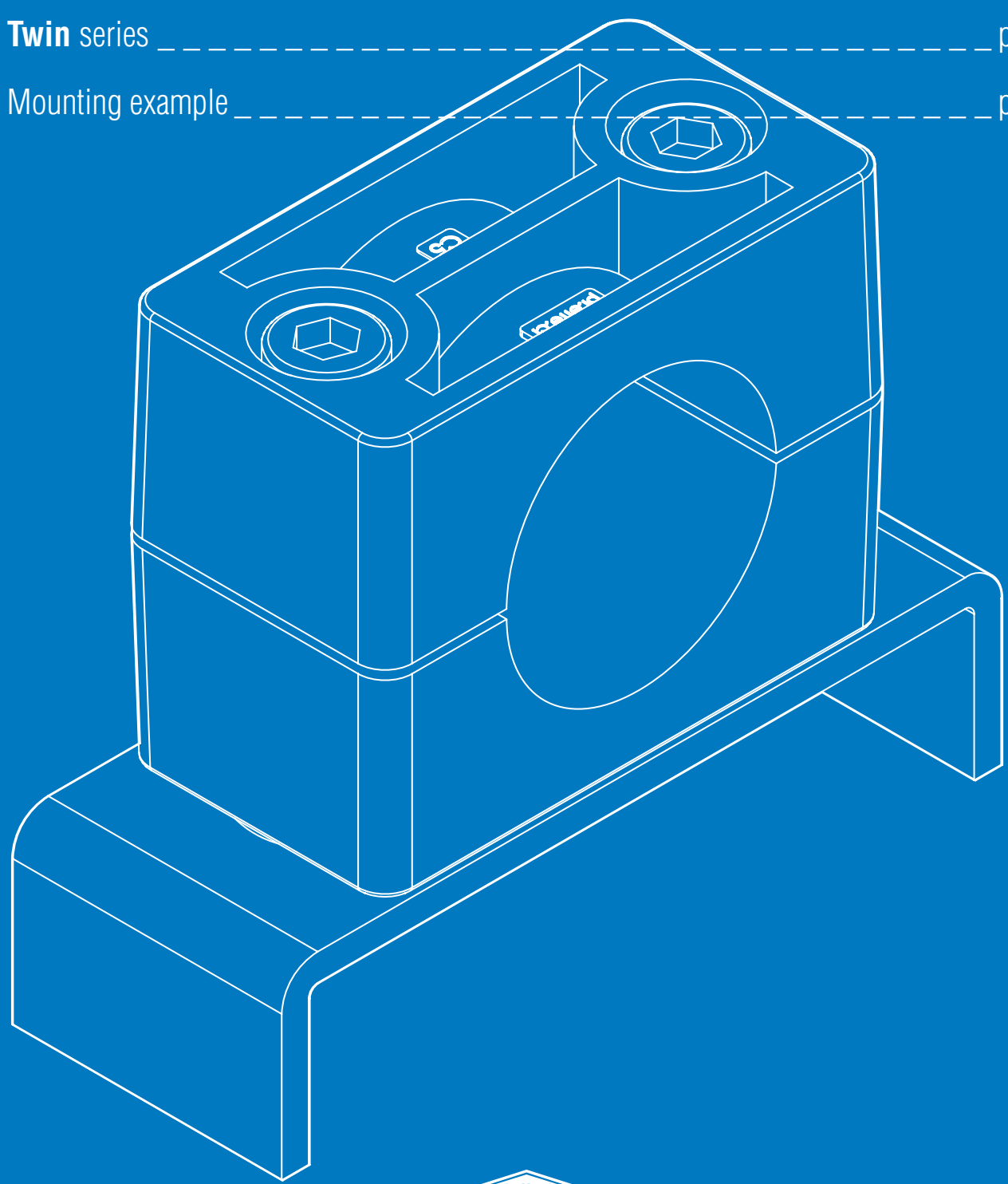
: material clamp body

PP: Polypropylene

PA: Polyamide

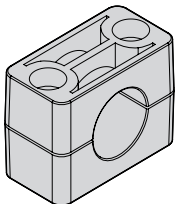
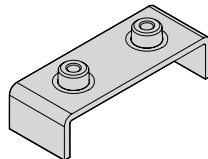
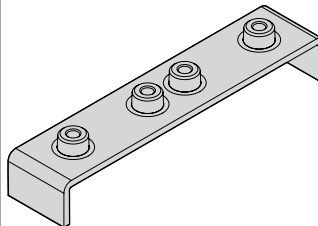
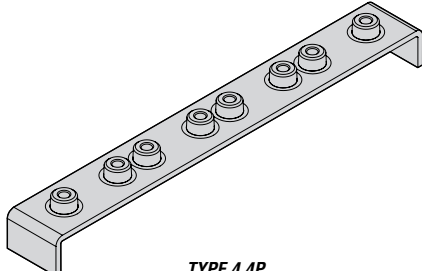
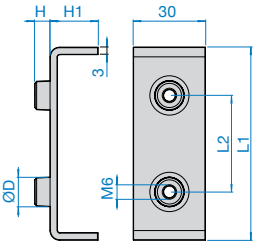
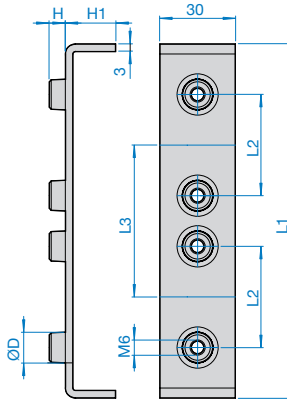
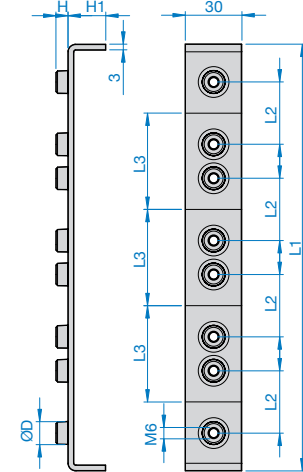
STANDARD and TWIN Series Clamps with SPACED PLATES

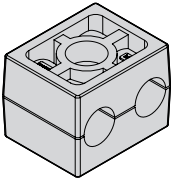
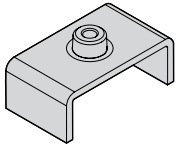
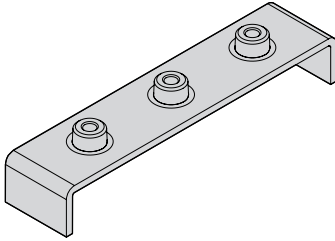
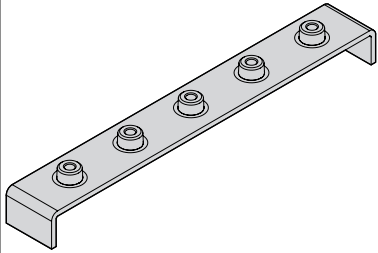
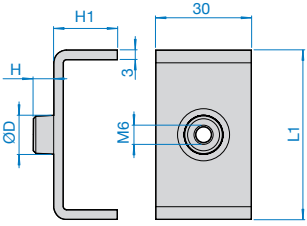
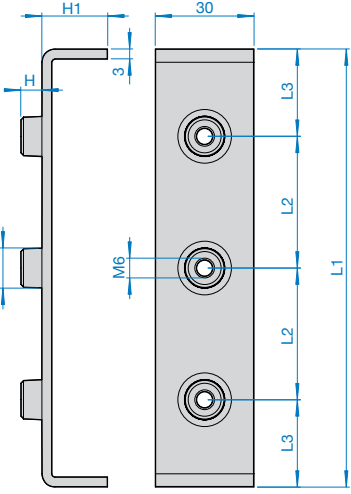
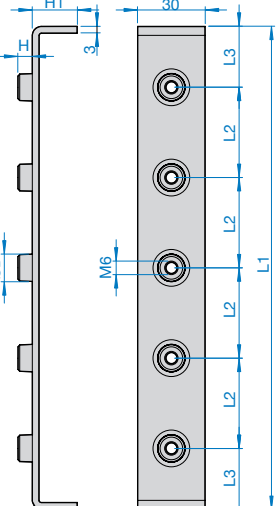
- **Standard** series p 42
- **Twin** series p 43
- Mounting example p 44



STANDARD SERIES WITH SPACED PLATES

Order Codes and Dimensions

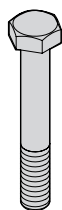
| Clamp body (two clamp halves) | Single spaced plate PM C 1P | Multiple spaced plate PM C 2P | Multiple spaced plate PM C 4P |
|---|--|---|--|
|  TYPE 2-7 |  TYPE 2-7 1P |  TYPE 2-7 2P |  TYPE 4 4P |
| Standard series clamps | PM C #1P XPM C #1P | PM C #2P XPM C #2P | PM C #4P XPM C #4P |
| For clamp body Dimensions, see page 7. For standard clamp body materials characteristics see page 78. | Code Pl.EFFE.CI. Type N. positions | Code Pl.EFFE.CI. Type N. positions | Code Pl.EFFE.CI. Type N. positions |
| | Type of thread | Type of thread | Type of thread |
| C2 AC2 | PM C2 1P XPM C2 1P | PM C2 2P XPM C2 2P | ... |
| C3 AC3 | PM C3 1P XPM C3 1P | PM C3 2P XPM C3 2P | ... |
| C4 AC4 | PM C4 1P XPM C4 1P | PM C4 2P XPM C4 2P | PM C4 4P XPM C4 4P |
| C5 AC5 | PM C5 1P XPM C5 1P | PM C5 2P XPM C5 2P | ... |
| C6 AC6 | PM C6 1P XPM C6 1P | PM C6 2P XPM C6 2P | ... |
| C7 AC7 | PM C7 1P XPM C7 1P | PM C7 2P XPM C7 2P | ... |
| MATERIALS AND TYPE OF THREAD COMPONENTS AND ACCESSORIES | For mounting use N. 1 two clamps halves | For mounting use N. 2 two clamps halves | For mounting use N. 4 two clamps halves |
| All components and accessories are available in: Carbon steel St360 with finishing surface in white zinc-coated Fe Zn c8 II. Untreated area available on request. Stainless steel inox 316L : (X2 CrNiMo17-12-2) 1.4404 marked with X identification code. |  TYPE 2-7 1P |  TYPE 2-7 2P |  TYPE 4 4P |
| All the components are produced with metric thread, on request are also available with UNC thread. Metric thread: code M . UNC thread: code UNC . | | | |
| Materials description | Carbon steel St360 code PM C 1P Stainless st. AISI316L XPM C 1P | Carbon steel St360 code PM C 2P Stainless st. AISI316L code XPM C 2P | Carbon steel St360 code PM C 4P Stainless steel AISI316L code XPM C 4P |
| For mounting clamps using accessories standard series, see pages 4-6. For standard series accessories dimensions, see pages 7-9. | Code Pl.EFFE.CI. L1 L2 H H1 ØD | Code Pl.EFFE.CI. L1 L2 L3 H H1 ØD | Code Pl.EFFE.CI. L1 L2 L3 H H1 ØD |
| | PM C2 1P XPM C2 1P | PM C2 2P XPM C2 2P | ... |
| | PM C3 1P XPM C3 1P | PM C3 2P XPM C3 2P | ... |
| | PM C4 1P XPM C4 1P | PM C4 2P XPM C4 2P | PM C4 4P XPM C4 4P |
| | PM C5 1P XPM C5 1P | PM C5 2P XPM C5 2P | ... |
| | PM C6 1P XPM C6 1P | PM C6 2P XPM C6 2P | ... |
| | PM C7 1P XPM C7 1P | PM C7 2P XPM C7 2P | ... |

| Clamp body (two clamp halves) | Single spaced plate PM CF 1P | Multiple spaced plate PM CF 3P | Multiple spaced plate PM CF 5P |
|---|--|--|---|
|  TYPE 1 |  TYPE 1 1P |  TYPE 1 3P |  TYPE 1 5P |
| Twin series CF1 clamps | PM CF1 # 1P XP MCF1 # 1P | PM CF1 # 3P XP MCF1 # 3P | PM CF1 # 5P XP MCF1 # 5P |
| For dimensions, see page 28. For twin series clamp body materials characteristics, see page 78. | Code PI.EFFE.CI. Type N. positions | Code PI.EFFE.CI. Type N. positions | Code PI.EFFE.CI. Type N. positions |
| CF1 | PMCF1 1P XPMCF1 1P | PMCF1 3P XPMCF1 3P | PMCF1 5P XPMCF1 5P |
| MATERIALS AND TYPE OF THREAD COMPONENTS AND ACCESSORIES | For mounting use N. 1 two clamps halves | For mounting use N. 3 two clamps halves | For mounting use N. 5 two clamps halves |
| All components and accessories are available in: Carbon steel St360 with finishing surface in white zinc-coated Fe Zn c8 II. Untreated area available on request. Stainless steel inox 316L : (X2 CrNiMo17-12-2) 1.4404 marked with X identification code. All the components are produced with metric thread, on request are also available with UNC thread. Metric thread: code M . UNC thread: code UNC . |  TYPE 1 1P |  TYPE 1 3P |  TYPE 1 5P |
| Upper plate PS CF1 | Code steel St360 PM CF1 1P Stainless st. AISI316L c. XP MCF 1P | Code steel St360 PM CF1 3P Stainless st. AISI316L c. XP MCF 3P | Code steel St360 PM CF1 5P Stainless st. AISI316L c. XP MCF 5P |
| For dimensions, see page 29. For upper plate PS material characteristics, see page 78. | Code PI.EFFE.CI. | Code PI.EFFE.CI. | Code PI.EFFE.CI. |
| PS CF1 XPSCF1 | L1 H H1 ØD | L1 L2 L3 H H1 ØD | L1 L2 L3 H H1 ØD |
| | PMCF1 1P XPMCF1 1P | PMCF1 3P XPMCF1 3P | PMCF1 5P XPMCF1 5P |

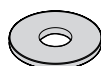
Accessories CF1

For material characteristics of flat washer RP and hexagon head bolt TE, see page 78 (twin series clamps).

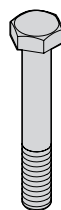
For Dimensions, see page 29.



TE CF1



RP CF1

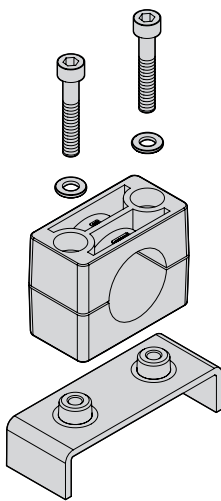


TER

STANDARD AND TWIN SERIES WITH SPACED PLATES

Mounting Example

Mounting Example of complete clamp C5 in Polypropylene for pipe with outside diameter of 30mm, with single spaced plate 1 position.



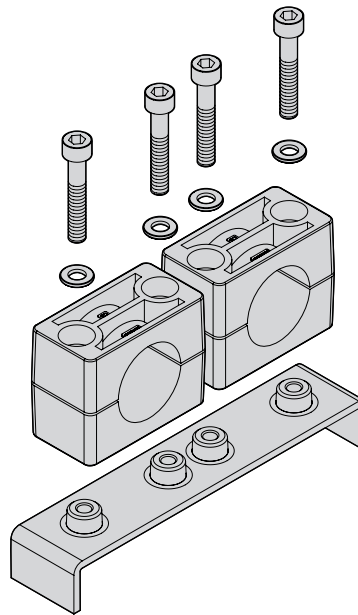
N.2 TCEI M6x35
Socketed cap screw
Steel 8.8 Metric Thread

N.2 RP
Flat washer in St360

N.1 C5 30 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PM C5 1P
Single spaced plate in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp C5 in Polypropylene for pipe with outside diameter of 30mm, with multiple spaced plate 2 positions.



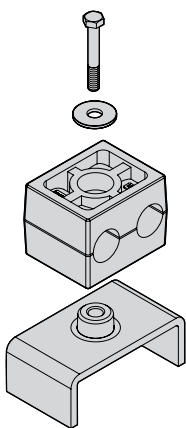
N.4 TCEI M6x35
Socketed cap screw
Steel 8.8 Metric Thread

N.4 RP
Flat washer in St360

N.2 C5 30 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PM C5 2P
Multiple spaced plate in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp CF1 in Polypropylene for pipe with outside diameter of 12mm, single spaced plate with upper plate.



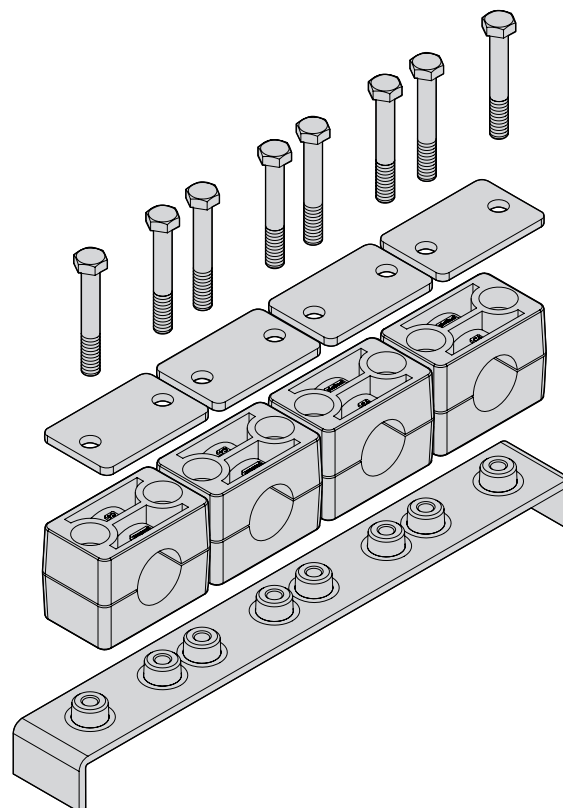
N.1 TE CF1 M6x30
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 RP CF1 06
Flat washer in St360

N.1 CF 12 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PM CF1 1P
Single spaced plate
in St 360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp C5 in Polypropylene for pipe with outside diameter of 30mm, with multiple spaced plate 4 positions and upper plate.



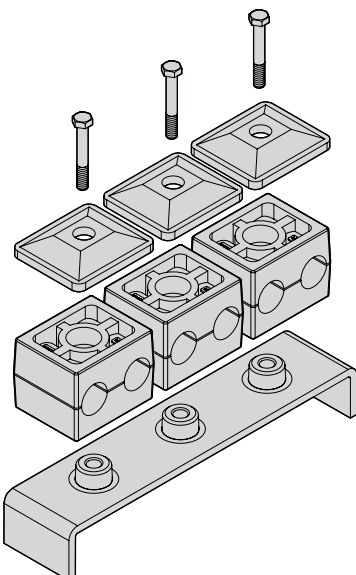
N.8 TCEI M6x35
Hexagon head bolt
Steel 8.8 Metric
Thread

N.4 PS4
Upper plate in St360
Surface finishing
white zinc-plating

N.4 C4 20 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PM C4 4P
Multiple spaced plate
in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp CF1 in Polypropylene for pipe with outside diameter of 12mm, multiple spaced plate with upper plate.



N.3 TE CF1 M6x35
Hexagon head bolt
Steel 8.8 Metric
Thread

N.3 PS CF1
Upper plate in St360
Surface finishing
white zinc-plating

N.3 CF1 12 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PM CF1 3P
Multiple spaced plate
in St 360
Metric thread
Surface finishing
white zinc-plating

NOTES

: material clamp body

PP: Polypropylene

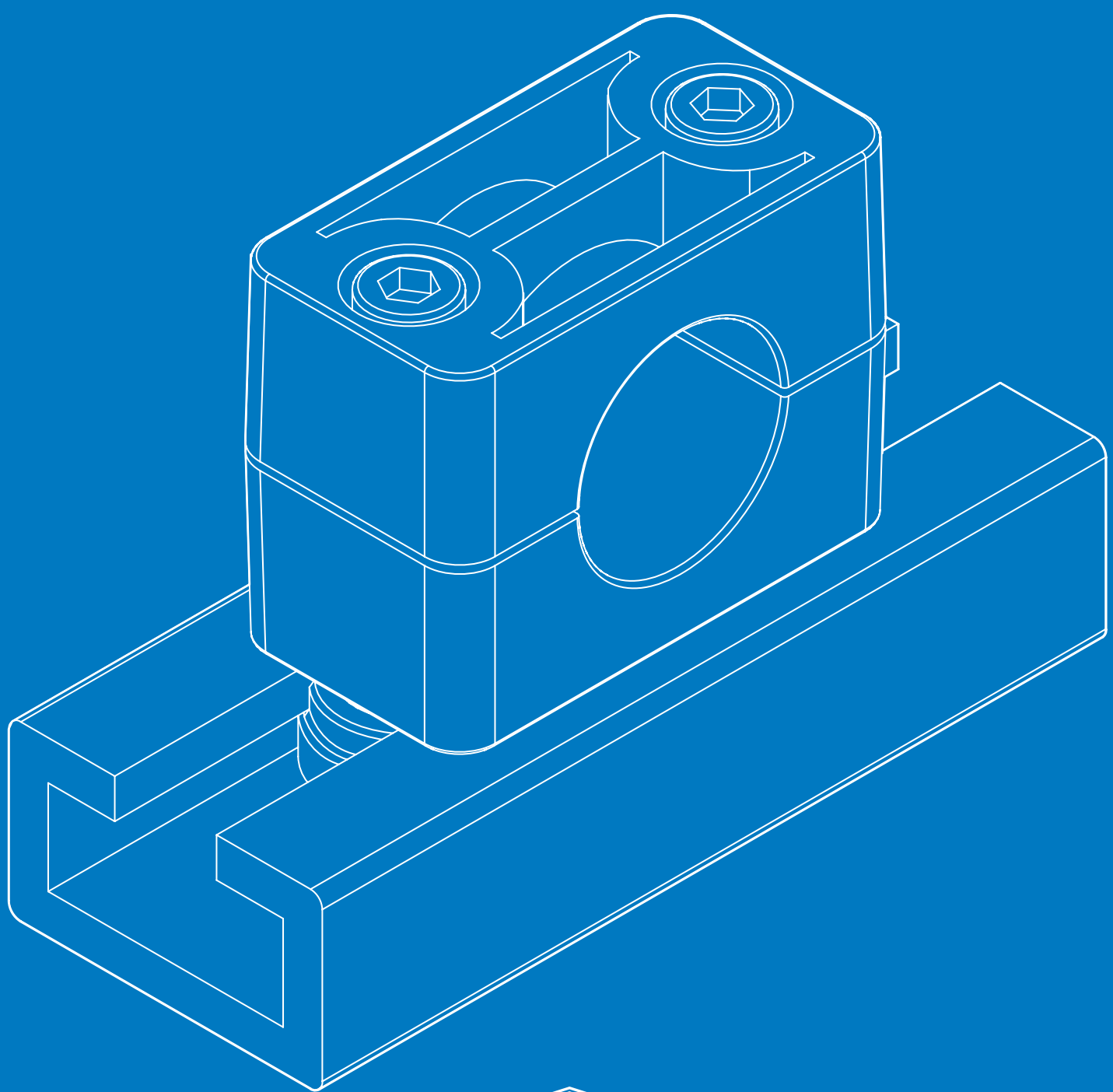
PA: Polyamide

AL: Aluminium

GM: Rubber

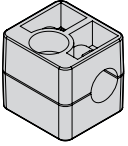
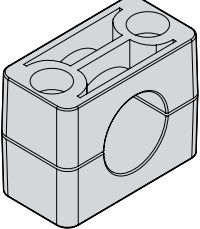


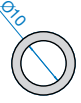
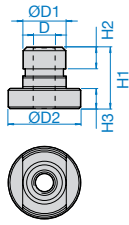
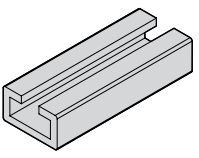
STANDARD and TWIN Series Clamps with MOUNTING RAIL

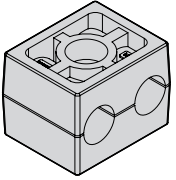
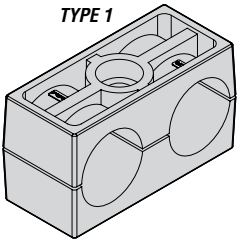


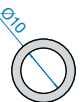
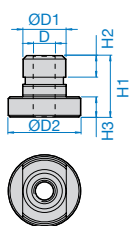
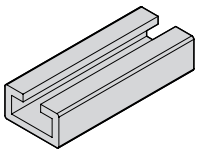
- **Standard series** DIN 3015, Part 1 p 46
- **Twin series** DIN 3015, Part 3 p 46



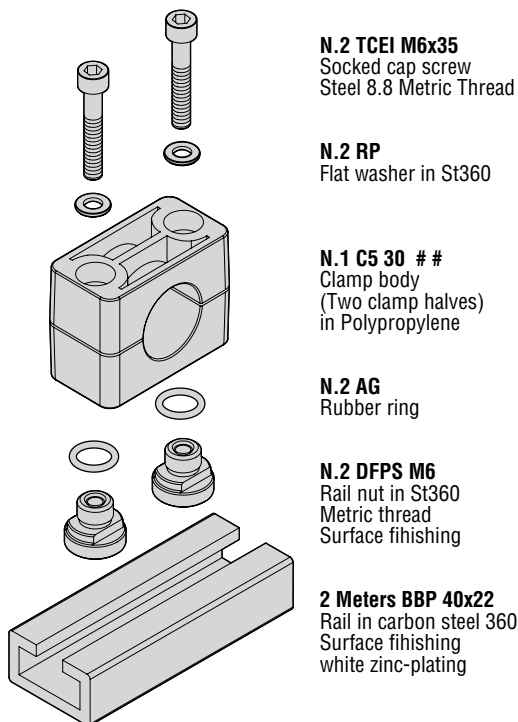
CLAMPS WITH MOUNTING RAIL 40x22

Order Codes and Dimensions

| Clamp body (two clamp halves) | Rail nut with Rubber ring DFPS+AG | | | | | | | Mounting rail BB P | | |
|---|--|--|---|------|-----|----|----|---|------------------------|---|
|  <p>TYPE 1</p>  <p>TYPE 2-9</p> |  <p>AG</p> <p>Use with BBP 40x22</p>  |  <p>AG</p>  | | | | | |  | | |
| Standard series clamps | DFPS XDFPS | # | S1360 code DFPS Stainless steel AISI 316L code XDFPS | | | | | | Mounting rail 40x22 | |
| For Order Codes standard series clamps, see page 4. For Dimensions standard series clamps, see page 7. | Rail nut S1360 and AISI 316L | Type of thread | Code PI.EFFE.CI. | ØD1 | ØD2 | H1 | H2 | H3 | D | For Order Codes mounting rail 40x22, see page 17. For Dimensions mounting rail 40x22, see page 22. |
| For standard series clamps, use rail nut M6 with Rubber ring AG 10x2 | DFPS XDFPS | M6 | DFPS XDFPS + AG | 11,8 | 20 | 17 | 6 | 5,6 | M6 | |

| Clamp body (two clamp halves) | Rail nut with Rubber ring DFPS+AG | | | | | | | Mounting rail BB P | | |
|---|--|--|---|------|-----|------|-----|---|------------------------|---|
|  <p>TYPE 1</p>  <p>TYPE 2-5</p> |  <p>AG</p> <p>Utilizzo con BBP 40x22</p>  |  <p>AG</p>  | | | | | |  | | |
| Twin series clamps | DFPS XDFPS | # | S1360 code DFPS Stainless steel AISI 316L code XDFPS | | | | | | Mounting rail 40x22 | |
| For Order Codes twin series clamps, see page 26. For Dimensions twin series clamps, see page 28. | Rail nut S1360 and AISI 316L | Type of thread | Code PI.EFFE.CI. | ØD1 | ØD2 | H1 | H2 | H3 | D | For Order Codes mounting rail 40x22, see page 17. For Dimensions mounting rail 40x22, see page 22. |
| For twin series clamps CF1, use rail nut M6 with Rubber ring AG 10x2 | DFPS XDFPS | M6 | DFPS XDFPS + AG | 11,8 | 20 | 17 | 6 | 5,6 | M6 | |
| For twin series clamps CF2-5, use rail nut M8 with Rubber ring AG 10x2 | | M8 | | 13,6 | 20 | 16,5 | 5,2 | 5,5 | M8 | |

Mounting Example of complete clamp C5 in Polypropylene for pipe with outside diameter of 30mm, mounting special rail nut.



N.2 TCEI M6x35
Socked cap screw
Steel 8.8 Metric Thread

N.2 RP
Flat washer in St360

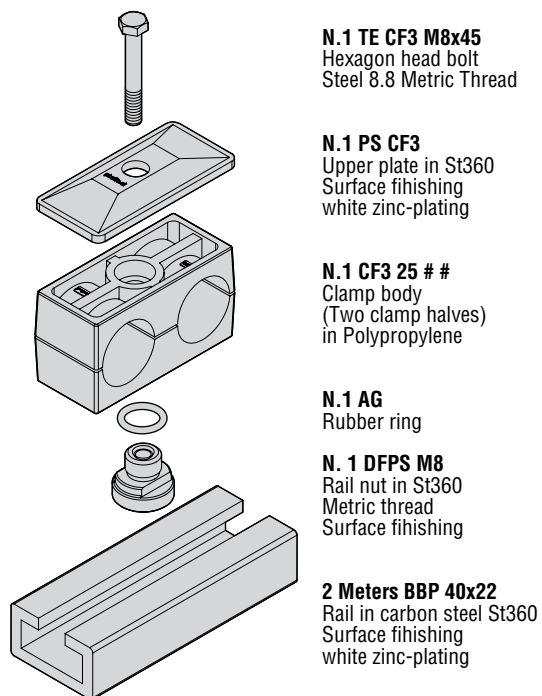
N.1 C5 30 ##
Clamp body
(Two clamp halves)
in Polypropylene

N.2 AG
Rubber ring

N.2 DFPS M6
Rail nut in St360
Metric thread
Surface finishing

2 Meters BBP 40x22
Rail in carbon steel 360
Surface finishing
white zinc-plating

Mounting Example of complete clamp CF3 in Polypropylene for pipe with outside diameter of 25mm, mounting special rail nut.



N.1 TE CF3 M8x45
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS CF3
Upper plate in St360
Surface finishing
white zinc-plating

N.1 CF3 25 ##
Clamp body
(Two clamp halves)
in Polypropylene

N.1 AG
Rubber ring

N.1 DFPS M8
Rail nut in St360
Metric thread
Surface finishing

2 Meters BBP 40x22
Rail in carbon steel St360
Surface finishing
white zinc-plating

The rail nut is produced with metric thread, on request is also available with UNC thread.
Metric thread: code **M**.
UNC thread: code **UNC**.

The rail nut is produced with metric thread, on request is also available with UNC thread.
Metric thread: code **M**.
UNC thread: code **UNC**.

NOTES

: Material clamp body

PP: Polypropylene

PA: Polyamide

A: Aluminium

GM: Rubber

Material ring AG: Rubber NBR

MECHANICAL CHARACTERISTICS

Hardness shore: 70 A (ASTM D 2240)

Density: g/cm³ 1.25 (ASTM D 792)

Tensile strength: MPa 14.3 (ASTM D 412 C)

Elongation at break: % 390

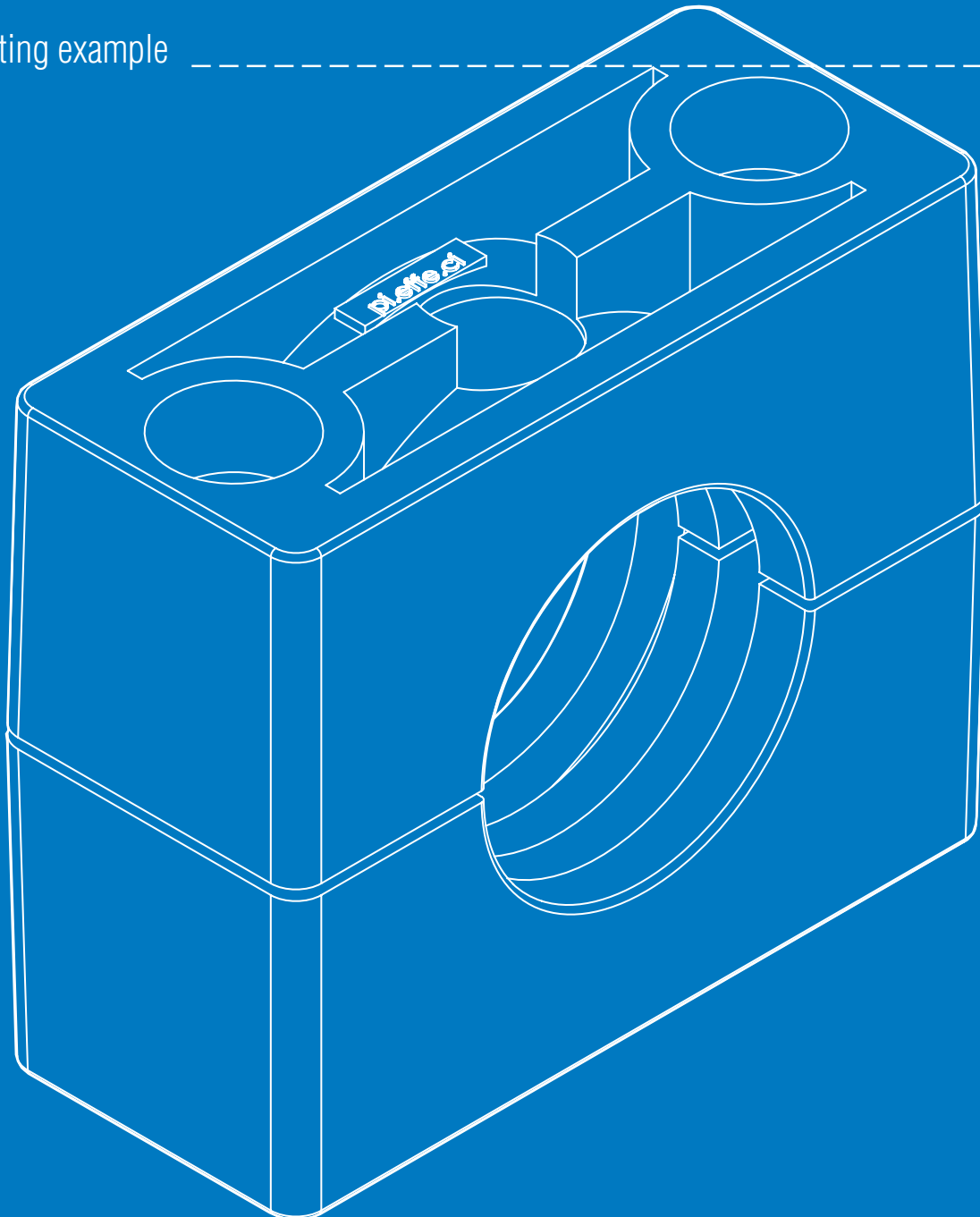
Tear strength: N/mm 49 (ASTM D 624 B)

THERMAL CHARACTERISTICS

Operating temperature range: -30°C to +120°C

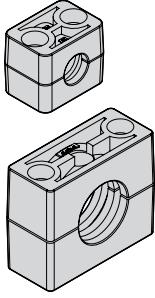
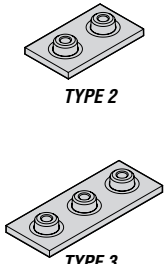
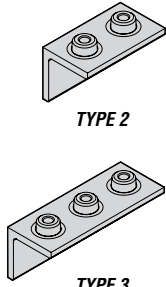
SPECIAL Clamps

- Order codes p 50
- Dimensions p 50
- Mounting example p 52

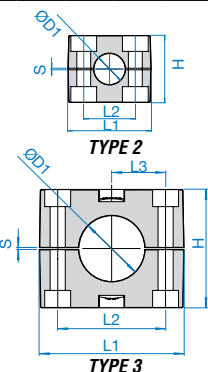
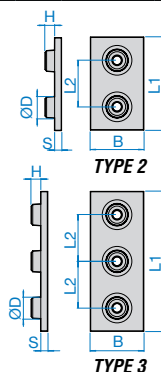
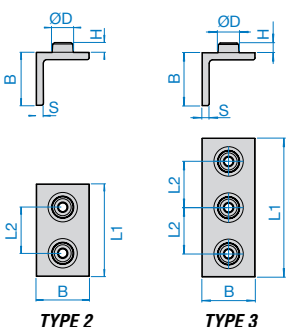


SPECIAL CLAMPS

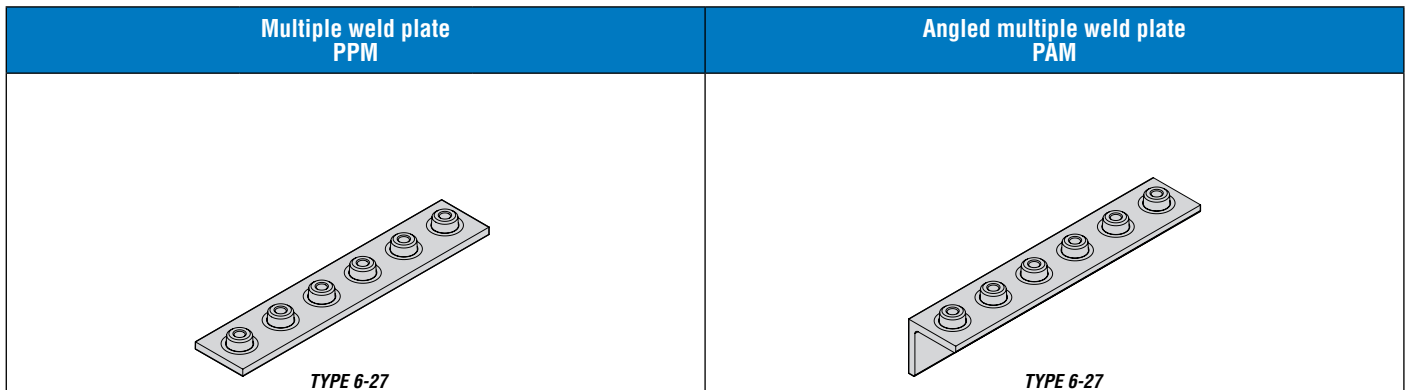
Order Codes and Dimensions

| PIPE CLAMPS MATERIAL | Clamp body (two clamp halves) | Single weld plate PP | Angled single weld plate PA |
|---|---|--|---|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. |  <p>TYPE 2</p> <p>TYPE 3</p> |  <p>TYPE 2</p> <p>TYPE 3</p> |  <p>TYPE 2</p> <p>TYPE 3</p> |
| Code PA : Polyamide material Colour Black . | | | |
| Code GM : Rubber Elastomer material Colour Black . | | | |
| Internal surface clamp body Profiled . | | | |
| For materials characteristics see page 78. | | | |

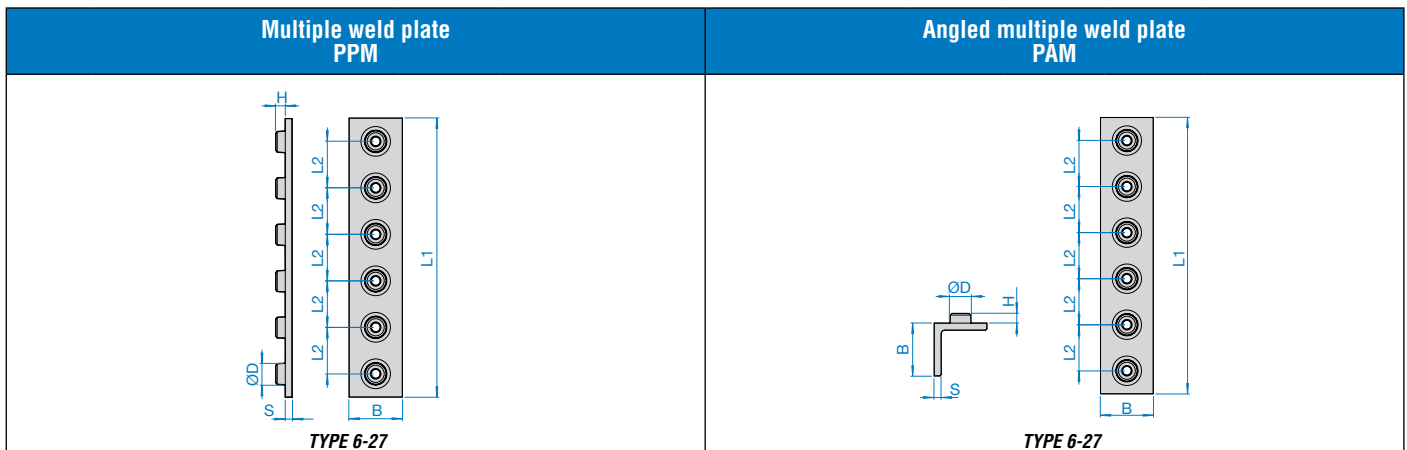
| Components description | | | ## - ##, ## - ## | | | PP# XPP# # | | PA# XPA# # | |
|-----------------------------|------------------------|---------------------------|-----------------------|------------------------|------------------------|--|----------------|---|----------------|
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose | | Code PI.EFFE.CI. Type | Outside diameter in mm | Material of clamp body | Single weld plate S1360 and AISI 316L Type | Type of thread | Angled single weld plate S1360 and AISI 316L Type | Type of thread |
| | in mm | nominal bore pipe in inch | | | | | | | |
| S2 | 8 | 1/8" | S2 | 8 | ## | PP2 XPP2 | M6 | PA2 XPA2 | M6 |
| | 10 | | | | | | | | |
| | 12 | | | | | | | | |
| | 14 | | | | | | | | |
| | 15 | | | | | | | | |
| | 16 | | | | | | | | |
| | 17.2 | | | | | | | | |
| S3 | 18 | 3/8" | S3 | 18 | ## | PP3 XPP3 | M6 | PA3 XPA3 | M6 |
| | 20 | | | | | | | | |
| | 21.3 | | | | | | | | |
| | 22 | | | | | | | | |
| | 23 | | | | | | | | |
| | 25 | | | | | | | | |
| | 26.9 | | | | | | | | |
| | 28 | | | | | | | | |
| | 30 | | | | | | | | |
| | 32 | | | | | | | | |
| | 33.7 | | | | | | | | |
| | 35 | | | | | | | | |
| | 38 | | | | | | | | |
| 40 | | | | | | | | | |
| 42.4 | | | | | | | | | |
| | 1.1/4" | | | 42.4 | | | | | |

| MATERIALS AND TYPE OF THREAD COMPONENTS AND ACCESSORIES | Clamp body (two clamp halves) | Single weld plate PP | Angled single weld plate PA |
|--|---|---|---|
| All components and accessories are available in: Carbon steel S1360 with finishing surface in white zinc-coated Fe Zn c8 II. Untreated area available on request. Stainless steel inox 316L : (X2 CrNiMo17-12-2) 1.4404 marked with X identification code. |  <p>TYPE 2</p> <p>TYPE 3</p> |  <p>TYPE 2</p> <p>TYPE 3</p> |  <p>TYPE 2</p> <p>TYPE 3</p> |
| All the components are produced with metric thread, on request are also available with UNC thread. Metric thread: code M . UNC thread: code UNC . | | | |

| Components description | | | Material PP-PA-GM code S | | | | | Carbon steel S1360 code PP Stainless steel AISI316L code XPP | | | | | | Carbon steel S1360 code PA Stainless steel AISI316L code XPA | | | | | | | | |
|-----------------------------|----------------------------|------------------------|--------------------------|----|-----|----|-----|---|------------------|----|----|----|---|---|----|------------------|----|----|----|---|-----|----|
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose ØD1 | | L1 | L2 | L3 | H | S | Width | Code PI.EFFE.CI. | L1 | L2 | B | S | H | ØD | Code PI.EFFE.CI. | L1 | L2 | B | S | H | ØD |
| | in mm | nom. bore pipe in inch | | | | | | | | | | | | | | | | | | | | |
| S2 | 8 | 1/8" | 43 | 26 | --- | 33 | 0,8 | 30 | PP2 XPP2 | 52 | 26 | 30 | 4 | 5,5 | 12 | PA2 XPA2 | 52 | 26 | 30 | 4 | 5,5 | 12 |
| | 10 | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | | | | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | |
| | 16 | | | | | | | | | | | | | | | | | | | | | |
| | 17.2 | | | | | | | | | | | | | | | | | | | | | |
| S3 | 18 | 3/8" | 70 | 52 | 26 | 57 | 1 | 30 | PP3 XPP3 | 78 | 26 | 30 | 4 | 5,5 | 12 | PA3 XPA3 | 78 | 26 | 30 | 4 | 5,5 | 12 |
| | 20 | | | | | | | | | | | | | | | | | | | | | |
| | 21.3 | | | | | | | | | | | | | | | | | | | | | |
| | 22 | | | | | | | | | | | | | | | | | | | | | |
| | 23 | | | | | | | | | | | | | | | | | | | | | |
| | 25 | | | | | | | | | | | | | | | | | | | | | |
| | 26.9 | | | | | | | | | | | | | | | | | | | | | |
| | 28 | | | | | | | | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | | | | | | | | |
| | 32 | | | | | | | | | | | | | | | | | | | | | |
| | 33.7 | | | | | | | | | | | | | | | | | | | | | |
| | 35 | | | | | | | | | | | | | | | | | | | | | |
| | 38 | | | | | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | | | | |
| 42.4 | | | | | | | | | | | | | | | | | | | | | | |
| | 1.1/4" | | | | | | | | | | | | | | | | | | | | | |

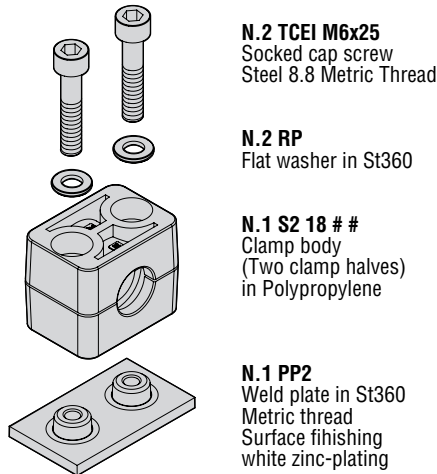


| PPM# XPPM# | | # | PAM# XPAM# | | # | | |
|---|----|----------------------|---------------|---|----------------------|--|--|
| Multiple weld plate St360 and AISI 316L Type | | | | Angled multiple weld plate St360 and AISI 316L Type | | | |
| | | Type of thread | | | Type of thread | | |
| PPM6 XPPM6 | M6 | | | PAM6 XPAM6 | M6 | | |
| PPM9 XPPM9 | | | | PAM9 XPAM9 | | | |
| PPM12 XPPM12 | | | | PPA12 XPAM12 | | | |
| PPM15 XPPM15 | | | | PAM15 XPAM15 | | | |
| PPM20 XPPM20 | | | | PAM20 XPAM20 | | | |
| PPM27 XPPM27 | | | | PAM27 XPAM27 | | | |



| Carbon steel St360 code PPM Stainless steel AISI316L code XPPM | | | | | | | Carbon steel St360 code PAM Stainless steel AISI316L code XPAM | | | | | | |
|---|-----|----|----|---|-----|----|---|-----|----|----|---|-----|----|
| Code PI.EFFE.CI. | L1 | L2 | B | S | H | ØD | Code PI.EFFE.CI. | L1 | L2 | B | S | H | ØD |
| PPM6 XPPM6 | 156 | 26 | 30 | 4 | 5,5 | 12 | PAM6 XPAM6 | 156 | 26 | 30 | 4 | 5,5 | 12 |
| PPM9 XPPM9 | 234 | 26 | 30 | 4 | 5,5 | 12 | PAM9 XPAM9 | 234 | 26 | 30 | 4 | 5,5 | 12 |
| PPM12 XPPM12 | 312 | 26 | 30 | 4 | 5,5 | 12 | PPA12 XPAM12 | 312 | 26 | 30 | 4 | 5,5 | 12 |
| PPM15 XPPM15 | 390 | 26 | 30 | 4 | 5,5 | 12 | PAM15 XPAM15 | 390 | 26 | 30 | 4 | 5,5 | 12 |
| PPM20 XPPM20 | 520 | 26 | 30 | 4 | 5,5 | 12 | PAM20 XPAM20 | 520 | 26 | 30 | 4 | 5,5 | 12 |
| PPM27 XPPM27 | 702 | 26 | 30 | 4 | 5,5 | 12 | PAM27 XPAM27 | 702 | 26 | 30 | 4 | 5,5 | 12 |

Mounting Example of complete clamp S2 in Polypropylene for pipe with outside diameter of 18mm, with single weld plate.



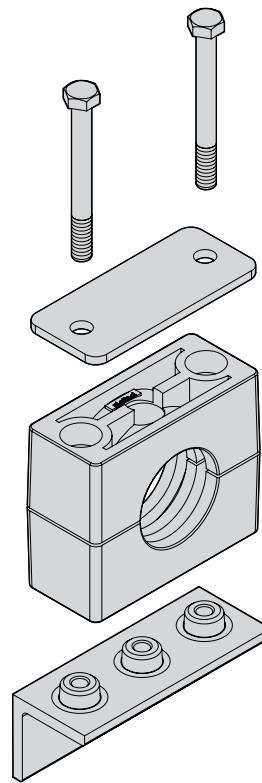
N.2 TCEI M6x25
Socked cap screw
Steel 8.8 Metric Thread

N.2 RP
Flat washer in St360

N.1 S2 18 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PP2
Weld plate in St360
Metric thread
Surface finishing
white zinc-plating

Mounting Example of complete clamp S3 in Polyamide for pipe with outside diameter of 30mm, with angled single weld plate.



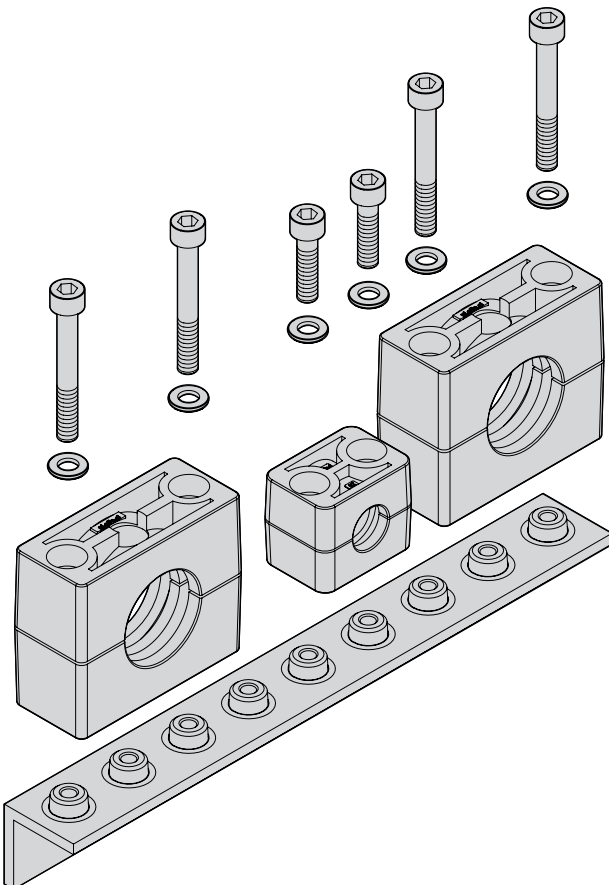
N.2 VE6 M6x60
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PS6
Upper plate in St360
Surface finishing
white zinc-plating

N.1 S3 30 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PA3
Angled multiple weld plate in St360
Metric thread
Surface finishing white zinc-plating

Mounting Example of complete clamps S2 in Polypropylene with outside diameter of 18mm, S3 in Polypropylene with outside diameter of 30mm with angled multiple weld plate.



N.2 TCEI M6x25
Socked cap screw
Steel 8.8 Metric Thread

N.4 TCEI M6x60
Socked cap screw
Steel 8.8 Metric Thread

N.6 RP
Flat washer in St360

N.1 S2 18 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.2 S3 30 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PAM9
Angled multiple weld plate
in St360
Metric thread
Surface finishing
white zinc-plating

NOTES

: material clamp body

PP: Polypropylene

PA: Polyamide

GM: Rubber Elastomer

This clamps type has the same characteristics as standard series.

It is very versatile. That's why it covers a diameter range from 8mm to 42,4mm with only two clamp types.

Furthermore these two clamp types can be mounted on multiple plates without distinction.

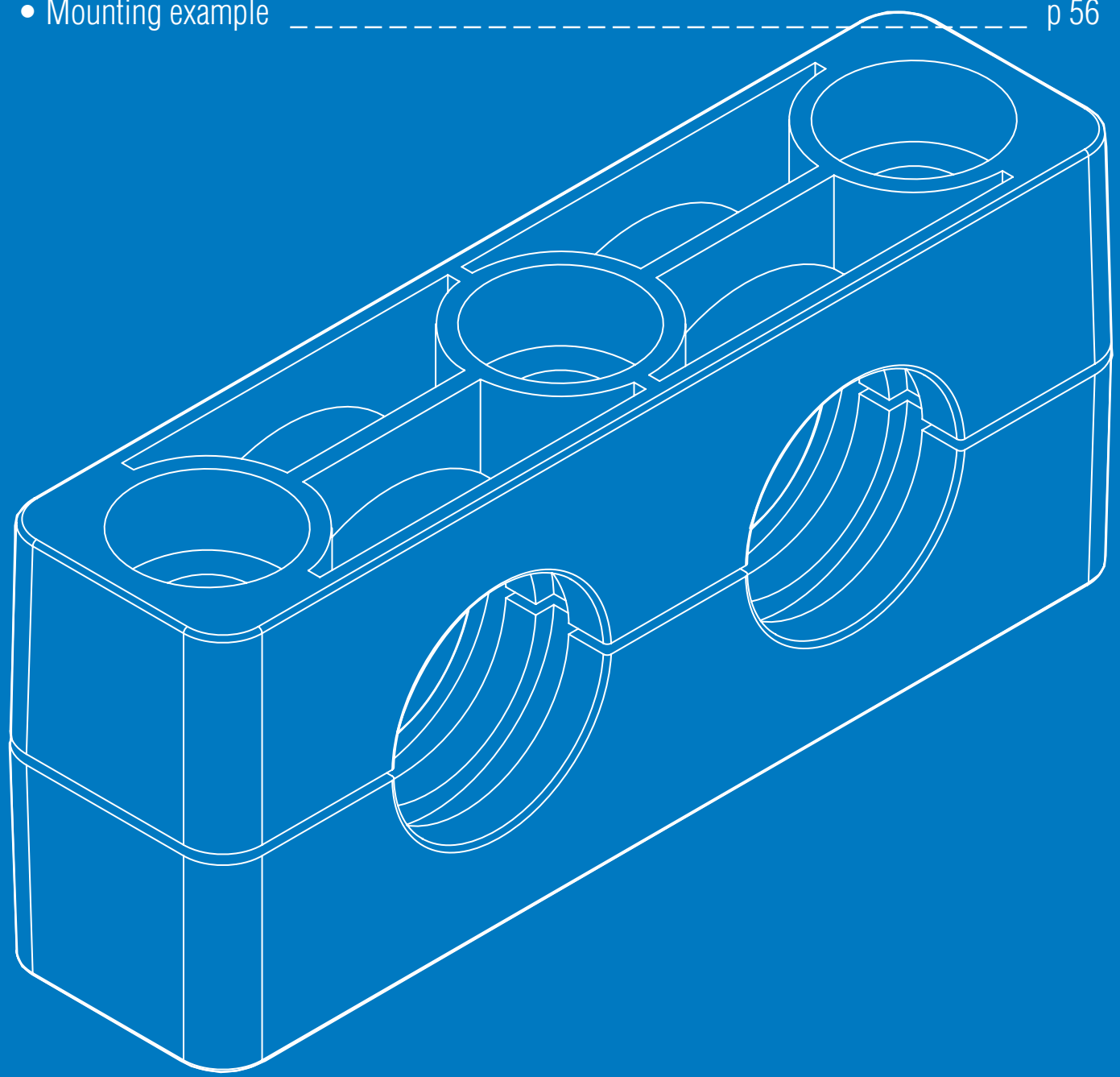
For mounting clamps S2 and S3, use components standard series on pages 5 and 6.

For dimensions standard series components, see pages 8 and 9.

HEAVY Series TWIN DESIGN Clamps

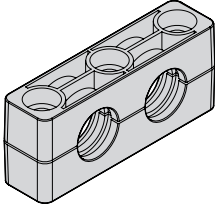
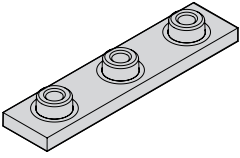
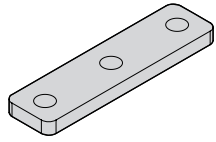
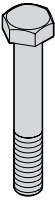
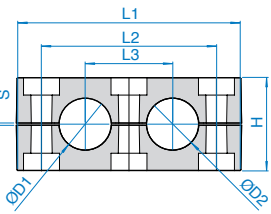
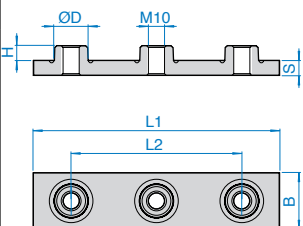
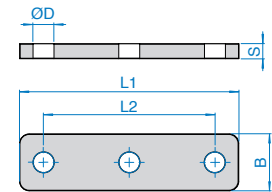
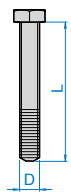
DIN 3015, Part 2

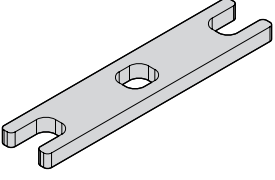

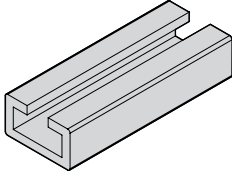
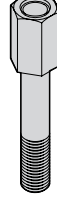
- Order codes p 54
- Dimensions p 54
- Mounting example p 56

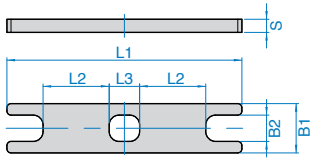
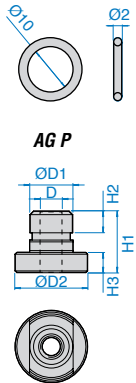
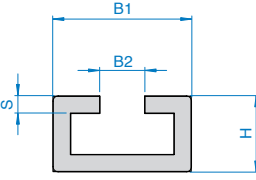
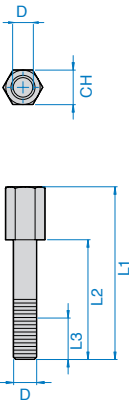


HEAVY SERIES TWIN DESIGN CLAMPS

Order Codes and Dimensions

| PIPE CLAMPS MATERIAL | | | | Clamp body (two clamp halves) | | | Weld plate PD CP | | | Upper plate PSD CP | | | Hexagon head bolt TE CP | | | | | | | | | | | |
|---|-----------------------------------|---------------------------------|---------|---|------------------------------|---------------------------|--|-------------------|---|---|-------------------|-----|---|---|---|----|-----------------------|-----|-----|----|---|----|---------------------|--------|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. | | | |  <p style="text-align: center;">TYPE 2-3</p> | | |  <p style="text-align: center;">TYPE 2-3</p> | | |  <p style="text-align: center;">TYPE 2-3</p> | | | <p style="text-align: center;">EN ISO 4014 / 4017</p>  | | | | | | | | | | | |
| Code PA : Polyamide material Colour Black . | | | | | | | | | | | | | | | | | | | | | | | | |
| Internal surface clamp body Knurled . NB Different diameters are available on demand. For material characteristics and mounting see pages. 78 e 80. | | | | | | | | | | | | | | | | | | | | | | | | |
| Components description | | | | ## - ##, ## - ## | | | PD CP # D XPD CP # D | | | PSD CP # D XPSD CP # D | | | TE CP # XTE CP # | | | | | | | | | | | |
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose | | | Code PI.EFFE.CI. Type | Outside diameter in mm | Material of clamp body | Weld plate St430 and AISI 316L Type | Type of thread | Upper plate St430 and AISI 316L Type | Hexagon head bolt Steel 8.8 and A4 Type | Type of thread | | | | | | | | | | | | | |
| | in mm | nominal bore pipe in inch | in inch | | | | | | | | | | | | | | | | | | | | | |
| CP2 D | 19 | | 3/4" | CP2 D | 19 | ## | PD CP2D XPD CP2D | M10 | PSD CP2D XPSD CP2D | TE CP2 XTE CP2 | M10x60 | | | | | | | | | | | | | |
| | 20 | | | | 20 | ## | | | | | | | | | | | | | | | | | | |
| | 21,3 | 1/2" | | | 21,3 | ## | | | | | | | | | | | | | | | | | | |
| | 22 | | 7/8" | | 22 | ## | | | | | | | | | | | | | | | | | | |
| | 25,4 | | 1" | | 25,4 | ## | | | | | | | | | | | | | | | | | | |
| CP3 D | 26,9 | 3/4" | | CP3 D | 26,9 | ## | PD CP3D XPD CP3D | M10 | PSD CP3D XPSD CP3D | TE CP3 XTE CP3 | M10x70 | | | | | | | | | | | | | |
| | 32 | | 1.1/4" | | 32 | ## | | | | | | | | | | | | | | | | | | |
| | 33,7 | 1" | | | 33,7 | ## | | | | | | | | | | | | | | | | | | |
| | 38 | | 1.1/2" | | 38 | ## | | | | | | | | | | | | | | | | | | |
| | 40 | | | | 40 | ## | | | | | | | | | | | | | | | | | | |
| 42,4 | 1.1/4" | | 42,4 | ## | | | | | | | | | | | | | | | | | | | | |
| All components and accessories are available in: Carbon steel St430 with finishing surface in white zinc-coated Fe Zn c8 II. Untreated area available on request. Stainless steel inox 316L : (X2 CrNiMo17-12-2) 1.4404 marked with X identification code. | | | |  <p style="text-align: center;">TYPE 2-3</p> | | |  <p style="text-align: center;">TYPE 2-3</p> | | |  <p style="text-align: center;">TYPE 2-3</p> | | |  | | | | | | | | | | | |
| All the components are produced with metric thread, on request are also available with UNC thread. Metric thread: code M . UNC thread: code UNC . | | | | | | | | | | | | | | | | | | | | | | | | |
| Materials description | | | | Material PP-PA-GM code CP D | | | Carbon steel St430 code PD CPD Stainless steel AISI 316L code XPD CPD | | | Carbon steel St430 code PSD CPD Stainless steel AISI 316L XPSD CPD | | | Steel 8.8 code TE CP Stainless st. A4 XTE CP | | | | | | | | | | | |
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose ØD1-ØD2 | | | L1 | L2 | L3 | H | S | Width | Code PI.EFFE.CI. | L1 | L2 | B | S | H | ØD | Code PI.EFFE.CI. | L1 | L2 | B | S | ØD | Code PI.EFFE.CI. | DxL |
| | in mm | nominal bore pipe in inch | in inch | | | | | | | | | | | | | | | | | | | | | |
| CP2 D | 19 | | 3/4" | 115 | 90 | 45 | 48 | 1 | 30 | PD CP2D XPD CP2D | 130 | 90 | 30 | 8 | 8 | 18 | PSD CP2D XPSD CP2D | 115 | 90 | 30 | 8 | 11 | TE CP2 XTE CP2 | M10x60 |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | |
| | 21,3 | 1/2" | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | | 7/8" | | | | | | | | | | | | | | | | | | | | | |
| | 25,4 | | 1" | | | | | | | | | | | | | | | | | | | | | |
| CP3 D | 26,9 | 3/4" | | 145 | 120 | 60 | 60 | 1,2 | 30 | PD CP3D XPD CP3D | 160 | 120 | 30 | 8 | 8 | 18 | PSD CP3D XPSD CP3D | 145 | 120 | 30 | 8 | 11 | TE CP3 XTE CP3 | M10x70 |
| | 32 | | 1.1/4" | | | | | | | | | | | | | | | | | | | | | |
| | 33,7 | 1" | | | | | | | | | | | | | | | | | | | | | | |
| | 38 | | 1.1/2" | | | | | | | | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | | | | | | | | | |
| 42,4 | 1.1/4" | | | | | | | | | | | | | | | | | | | | | | | |

| Locking plate PB CPD | | | Rail nut with rubber ring DF P | | Mounting rail BB P | | High hexagon head bolt VA CP | |
|--|------|-----|---|----------------|--|-------------------|--|----------------|
| <p>For overlapped clamps</p>  <p>TYPE 2-3</p> | | |  <p>AG P</p> | |  | | <p>For overlapped clamps</p>  | |
| PB CP # D XPB CP # D | | | DFP # XDFP # | | BB P XBB P | | VA CP # XVA CP # | |
| Locking plate St430 and AISI 316L Type | | | Rail nut St360 and AISI 316L | Type of thread | Mounting Rail St360 and AISI 316L | | High hexagon head bolt St360 and AISI 316L type | Type of thread |
| PB CP2D | CP2D | XPB | DF P XDFP P | M10 | BB P XBB P lenght 2m | VA CP2 XVA CP2 | M10 | |
| PB CP3D | CP3D | XPB | | | | VA CP3 XVA CP3 | M10 | |

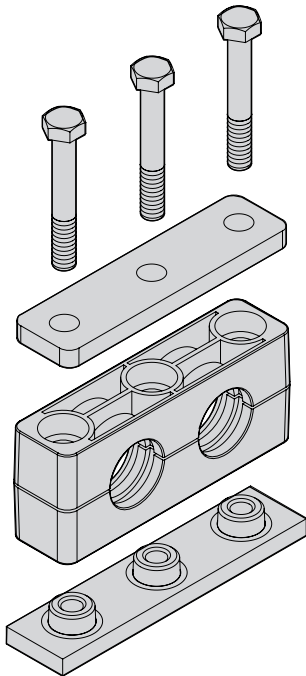
| | | | | | | | | |
|---|--|--|---|--|--|--|---|--|
|  <p>TYPE 2-3</p> | | |  <p>AG P</p> | |  | |  | |
|---|--|--|---|--|--|--|---|--|

| Carbon steel St430 code PB CPD Stainless steel AISI 316L code XPB CPD | | | | | | | St360 code DF P Stainless steel AISI 316L code XDFP | | | | | | | Carbon steel St360 code BB P Stainless steel AISI 316L code XBB P | | | | | St360 code VA CP Stainless steel AISI 316L code XVA CP | | | | | |
|--|-----|----|------|----|----|---|--|------|-----|----|----|----|-----|---|----|----|----|---|--|-----|----|----|----|----|
| Code P.I.EFFE.CI. | L1 | L2 | L3 | B1 | B2 | S | Code P.I.EFFE.CI. | ØD | ØD2 | H1 | H2 | H3 | D | Code P.I.EFFE.CI. | B1 | B2 | H | S | Code P.I.EFFE.CI. | D | L1 | L2 | L3 | CH |
| PB CP2D XPB CP2D | 114 | 26 | 18,5 | 30 | 16 | 8 | DF P XDFP P + AG | 17,7 | 22 | 21 | 7 | 7 | M10 | BB P XBB P | 40 | 13 | 22 | 5 | VA CP2 XVA CP2 | M10 | 65 | 40 | 18 | 15 |
| PB CP3D XPB CP3D | 143 | 40 | 18,5 | 30 | 16 | 8 | | | | | | | | | | | | | VA CP3 XVA CP3 | M10 | 77 | 51 | 18 | 15 |

HEAVY SERIES TWIN DESIGN CLAMPS

Mounting Example

Mounting Example of complete clamp CP3-D in Polypropylene for pipe with outside diameter of 40mm with single weld plate and upper plate.



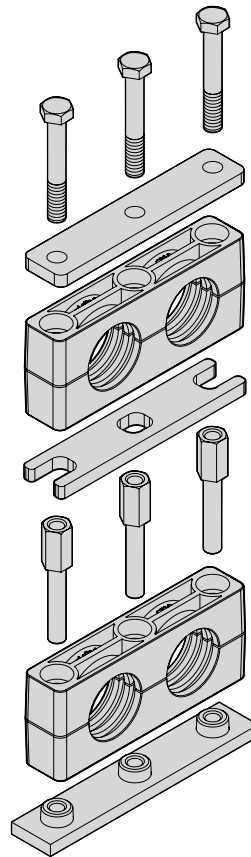
N.3 TE CP3 M10x70
Hexagon head bolt Steel 8.8
Metric Thread

N.1 PSD CP3 D
Upper plate in St430
Surface finishing
white zinc-plating

N.1 CP3D 40 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PD CP3D
Weld plate in St430 Metric
thread Surface finishing
white zinc-plating

Mounting Example of complete stacked clamp CP3 D in Polypropylene for pipe with outside diameter of 40mm with single weld plate and upper plate



N.3 TE CP3 M10x70
Hexagon head bolt
Steel 8.8 Metric Thread

N.1 PSD CP3D
Upper plate in St430
Surface finishing
white zinc-plating

N.1 CP3D 40 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.3 VA CP3D
Stacking bolt in St360
Metric thread

N.1 PB CP3D
Locking plate
in St430

N.1 CP3D 40 # #
Clamp body
(Two clamp halves)
in Polypropylene

N.1 PD CP3D
Weld plate in St430
Metric thread
Surface finishing white zinc plating

NOTES

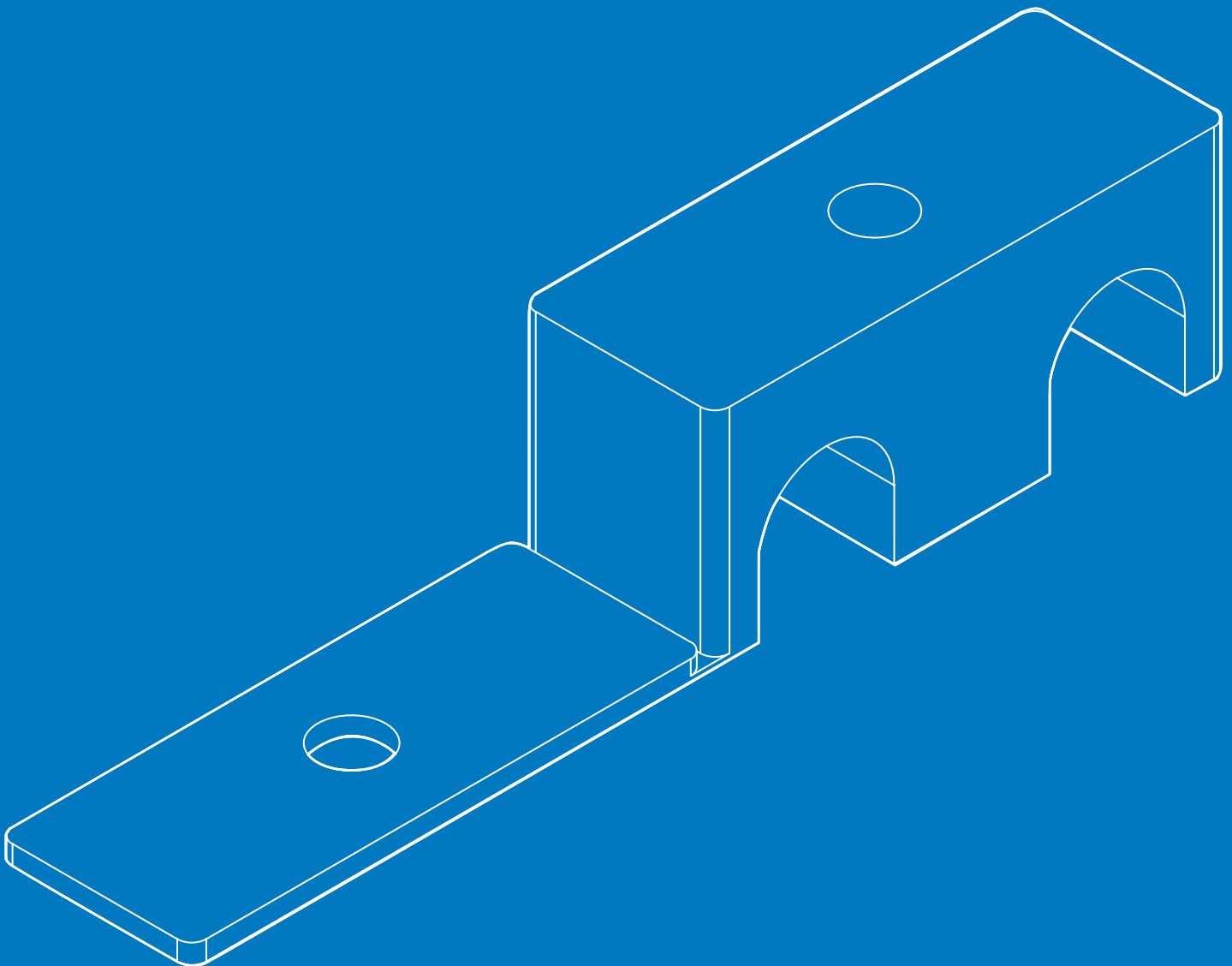
: material clamp body

PP: Polypropylene

PA: Polyamide

LIGHT Series Clamps

- Order codes p 58
- Dimensions p 58

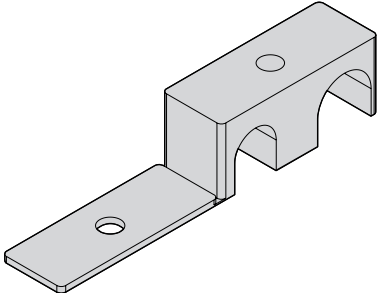
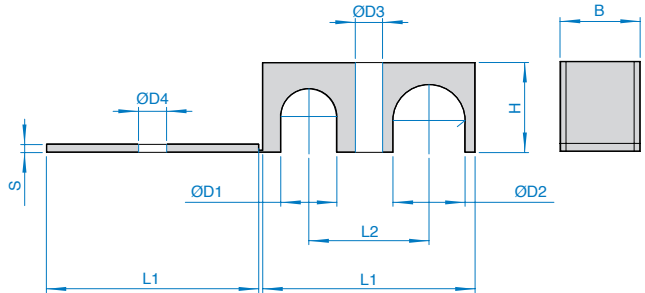


PIPE CLAMPS - LIGHT SERIES

Order Codes and Dimensions

| PIPE CLAMPS MATERIAL | | | | Type A (identical diameters) | | | | | | | | | | | | |
|---|-------------------------------------|---------------------------------|---------|---|---------------------------|---------------------------|----|----|------|------|-----|-----|------|------|----|----|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. | | | | | | | | | | | | | | | | |
| Internal surface clamp body Smooth . | | | | | | | | | | | | | | | | |
| For materials characteristics see pages 78 and 80. | | | | | | | | | | | | | | | | |
| ## - ##, ## - ## | | | | Dimensions Type A (identical diameters) | | | | | | | | | | | | |
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose ØD1 / ØD2 | | | Code PI.EFFE.CI. | Outside diameter in mm | Material of clamp body | L1 | L2 | B | H | S | ØD3 | ØD4 | | | |
| | in mm | nominal bore pipe in inch | in inch | | | | | | | | | | | | | |
| A | 4 | | | A | 4 | ## | 31 | 18 | 12,8 | 10,5 | 2 | 6,8 | 7 | | | |
| | 6 | | | | 6 | ## | | | | | | | | | | |
| | 8 | | | | 8 | ## | | | | | | | | | | |
| | 9,5 | | 3/8" | | 39 | 9,5 | ## | 22 | 16 | 15 | 2 | 6,8 | 7 | | | |
| | 10 | 1/8" | | | | | | | | | | | | 10 | ## | |
| | 12 | | | | | | | | | | | | | 12 | ## | |
| | 12,7 | | 1/2" | | 53 | 12,7 | ## | 30 | 20 | 22,5 | 2 | 6,8 | 7 | | | |
| | 13,5 | 1/4" | | | | | | | | | | | | 13,5 | ## | |
| | 14 | | | | | | | | | | | | | 14 | ## | |
| | 15 | | | | 70 | 15 | ## | 38 | 20 | 30 | 2 | 6,8 | 7 | | | |
| | 16 | | 5/8" | | | | | | | | | | | 16 | ## | |
| | 17,2 | 3/8" | | | | | | | | | | | | 17,2 | ## | |
| | 18 | | | | 20 | 18 | ## | 70 | 38 | 20 | 30 | 2 | 6,8 | 7 | | |
| | 19 | | 3/4" | | | | | | | | | | | | 19 | ## |
| | 20 | | | | | | | | | | | | | | 20 | ## |
| 21,3 | 1/2" | | 25,4 | 21,3 | ## | 70 | 38 | 20 | 30 | 2 | 6,8 | 7 | | | | |
| 22 | | 7/8" | | | | | | | | | | | 22 | ## | | |
| 25,4 | | 1" | | | | | | | | | | | 25,4 | ## | | |

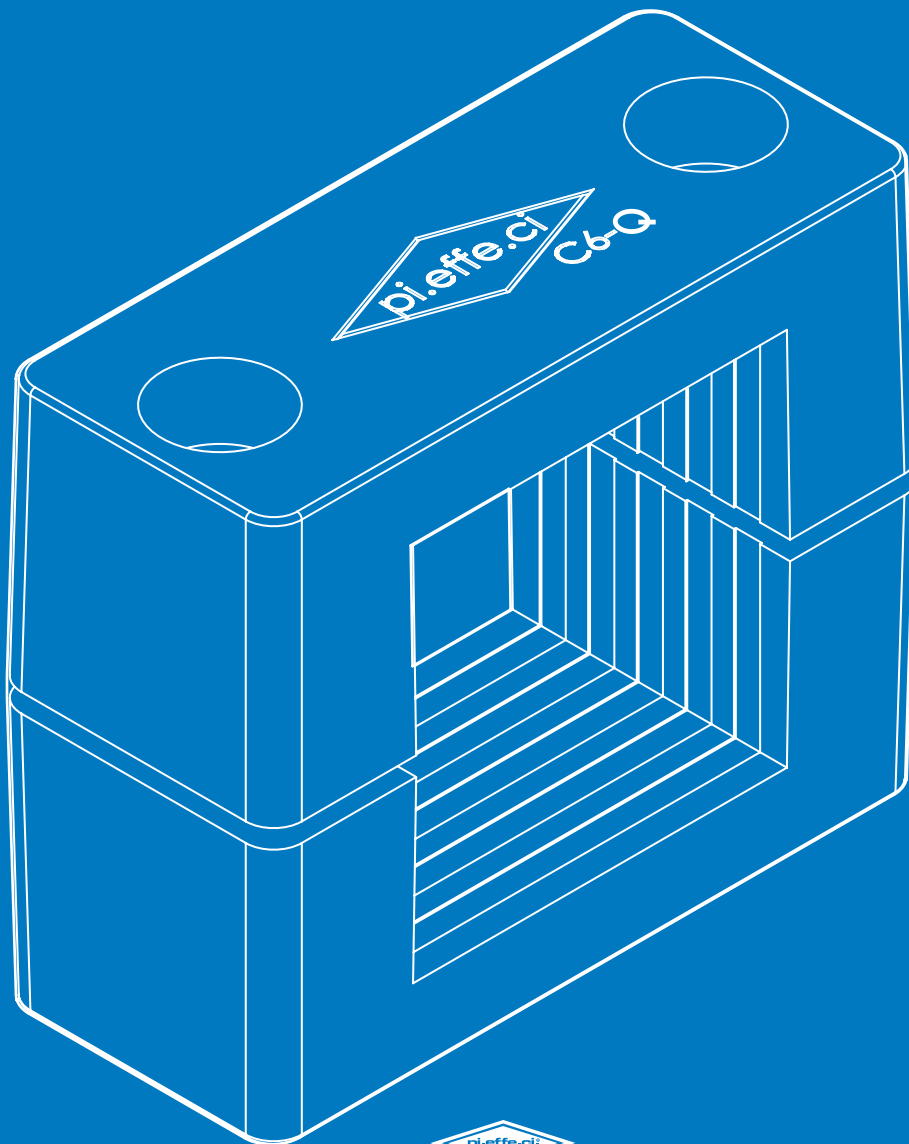
| PIPE CLAMPS MATERIAL | | | | Type B | | | | | | | | | | | | | |
|---|-------------------------------|---------------------------------|---------|---------------------|---------------------------|---------------------------|----|----|-----|------|------|-----|-----|------|------|----|----|
| Code PP : Polypropylene material Colour Blue NB: other colours on demand. | | | | | | | | | | | | | | | | | |
| Internal surface clamp body Smooth . | | | | | | | | | | | | | | | | | |
| For materials characteristics see pages 78 and 80. | | | | | | | | | | | | | | | | | |
| ## - ##, ## - ## | | | | Dimensions Type B | | | | | | | | | | | | | |
| Code PI.EFFE.CI. clamp body | O.D. of Pipe/Tube/Hose ØD1 | | | Code PI.EFFE.CI. | Outside diameter in mm | Material of clamp body | L1 | L2 | L3 | B | H | S | ØD2 | ØD3 | | | |
| | in mm | nominal bore pipe in inch | in inch | | | | | | | | | | | | | | |
| B | 4 | | | B | 4 | ## | 22 | 9 | 6,5 | 12,8 | 10,5 | 2 | 6,8 | 7 | | | |
| | 6 | | | | 6 | ## | | | | | | | | | | | |
| | 8 | | | | 8 | ## | | | | | | | | | | | |
| | 9,5 | | 3/8" | | 27 | 9,5 | ## | 13 | 5 | 16 | 15 | 2 | 6,8 | 7 | | | |
| | 10 | 1/8" | | | | | | | | | | | | | 10 | ## | |
| | 12 | | | | | | | | | | | | | | 12 | ## | |
| | 12,7 | | 1/2" | | 34 | 12,7 | ## | 15 | 7 | 20 | 22,5 | 2 | 6,8 | 7 | | | |
| | 13,5 | 1/4" | | | | | | | | | | | | | 13,5 | ## | |
| | 14 | | | | | | | | | | | | | | 14 | ## | |
| | 15 | | | | 42 | 15 | ## | 19 | 7 | 20 | 30 | 2 | 6,8 | 7 | | | |
| | 16 | | 5/8" | | | | | | | | | | | | 16 | ## | |
| | 17,2 | 3/8" | | | | | | | | | | | | | 17,2 | ## | |
| | 18 | | | | 25,4 | 18 | ## | 42 | 19 | 7 | 20 | 30 | 2 | 6,8 | 7 | | |
| | 19 | | 3/4" | | | | | | | | | | | | | 19 | ## |
| | 20 | | | | | | | | | | | | | | | 20 | ## |
| 21,3 | 1/2" | | 25,4 | 21,3 | ## | 42 | 19 | 7 | 20 | 30 | 2 | 6,8 | 7 | | | | |
| 22 | | 7/8" | | | | | | | | | | | | 22 | ## | | |
| 25,4 | | 1" | | | | | | | | | | | | 25,4 | ## | | |

| PIPE CLAMPS MATERIAL | Type C (different diameters) |
|--|--|
| Code PP: Polypropylene material Colour Blue NB: other colours on demand. |   |
| Internal surface clamp body Smooth . | |
| For materials characteristics see pages 78 and 80. | |

| O.D. of Pipe/Tube/Hose ØD1 / ØD2 | | | | ## - ##, ## - ## | | | Dimensions Type C (different diameters) | | | | | | |
|-------------------------------------|-----------|---------------------------------|-----------|---------------------|---------------------------|---------------------------|---|----|----|------|---|-----|-----|
| | | | | | | | L1 | L2 | B | H | S | ØD3 | ØD4 |
| Code PI.EFFE.CI. clamp body | in mm | nominal bore pipe in inch | in inch | Code PI.EFFE.CI. | Outside diameter in mm | Material of clamp body | L1 | L2 | B | H | S | ØD3 | ØD4 |
| | C | 4-6 | | | | | | | | | | | |
| | 4-8 | | | | 4-8 | ## | | | | | | | |
| | 6-8 | | | | 6-8 | ## | | | | | | | |
| | 10-9,5 | 1/8" | 3/8" | | 10-9,5 | ## | 39 | 22 | 16 | 15 | 2 | 6,8 | 7 |
| | 12-9,5 | | 3/8" | | 12-9,5 | ## | | | | | | | |
| | 10-12 | 1/8" | | | 10-12 | ## | | | | | | | |
| | 13,5-12,7 | 1/4" | 1/2" | | 13,5-12,7 | ## | 53 | 30 | 20 | 22,5 | 2 | 6,8 | 7 |
| | 14-12,7 | | 1/2" | | 14-12,7 | ## | | | | | | | |
| | 15-12,7 | | 1/2" | | 15-12,7 | ## | | | | | | | |
| | 16-12,7 | | 1/2" | | 16-12,7 | ## | | | | | | | |
| | 17,2-12,7 | 3/8" | 1/2" | | 17,2-12,7 | ## | | | | | | | |
| | 18-12,7 | | 1/2" | | 18-12,7 | ## | | | | | | | |
| | 13,5-14 | 1/4" | | | 13,5-14 | ## | | | | | | | |
| | 13,5-15 | 1/4" | | | 13,5-15 | ## | | | | | | | |
| | 13,5-16 | 1/4" | 5/8" | | 13,5-16 | ## | | | | | | | |
| | 13,5-17,2 | 1/4"-3/8" | | | 13,5-17,2 | ## | | | | | | | |
| | 13,5-18 | 1/4" | | | 13,5-18 | ## | | | | | | | |
| | 14-15 | | | | 14-15 | ## | | | | | | | |
| | 14-16 | | 5/8" | | 14-16 | ## | | | | | | | |
| | 17,2-14 | 3/8" | | | 17,2-14 | ## | | | | | | | |
| | 14-18 | | | | 14-18 | ## | | | | | | | |
| | 15-16 | | 5/8" | | 15-16 | ## | | | | | | | |
| | 17,2-15 | 3/8" | | | 17,2-15 | ## | | | | | | | |
| | 15-18 | | | | 15-18 | ## | | | | | | | |
| | 17,2-16 | 3/8" | 5/8" | | 17,2-16 | ## | | | | | | | |
| | 16-18 | | | | 16-18 | ## | | | | | | | |
| | 17,2-18 | 3/8" | | | 17,2-18 | ## | | | | | | | |
| | 20-19 | | 3/4" | | 20-19 | ## | 70 | 38 | 20 | 30 | 2 | 6,8 | 7 |
| | 21,3-19 | 1/2" | 3/4" | | 21,3-19 | ## | | | | | | | |
| | 22-19 | | 7/8"-3/4" | | 22-19 | ## | | | | | | | |
| | 25,4-19 | | 1"-3/4" | | 25,4-19 | ## | | | | | | | |
| | 21,3-20 | 1/2" | | | 21,3-20 | ## | | | | | | | |
| | 22-20 | | 7/8" | | 22-20 | ## | | | | | | | |
| | 21,3-22 | 1/2" | 7/8" | | 21,3-22 | ## | | | | | | | |
| | 21,3-25,4 | 1/2" | 1" | | 21,3-25,4 | ## | | | | | | | |
| | 22-25,4 | | 7/8"-1" | | 22-25,4 | ## | | | | | | | |

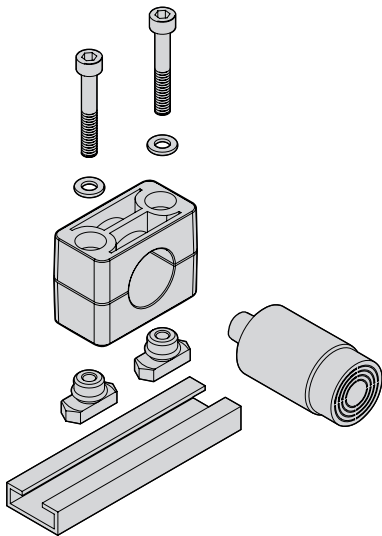
Special Clamps for INDUSTRIAL ELECTRIC APPLICATION and CUSTOM DESIGNED Clamps

- Mounting example ----- p 62



SPECIAL CLAMPS FOR INDUSTRIAL ELECTRIC APPLICATION AND CUSTOM DESIGNED CLAMPS

Proximity switches cylindrical



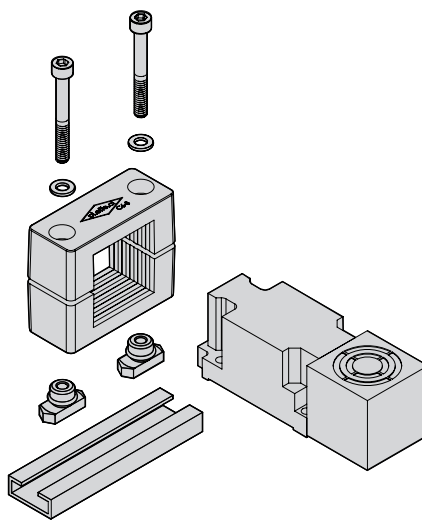
Order code: see standard series.

Proximity switches Cylindrical type.

Mounting clamps and accessories standard series.

We recommend the use of the rail for the axial and horizontal position adjustment.

Proximity switches rectangular type



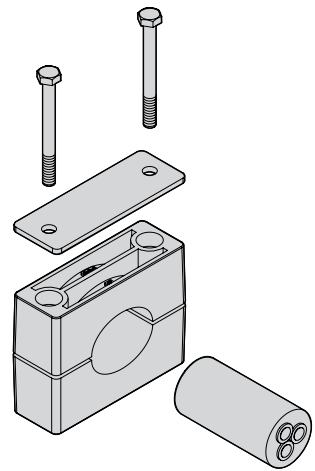
Order code: C6Q 40x40 PP

Proximity switches Rectangular type.

Mounting clamp type C6Q and accessories standard series.

We recommend the use of the rail for the axial and horizontal position adjustment.

For clamping of electric cables

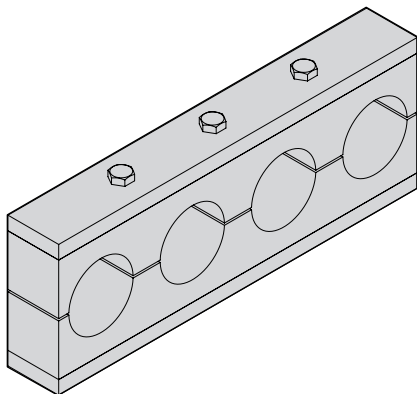


Order code: C7C 25 PP (standard series)
Order code: CP4C 50 PP (heavy series)

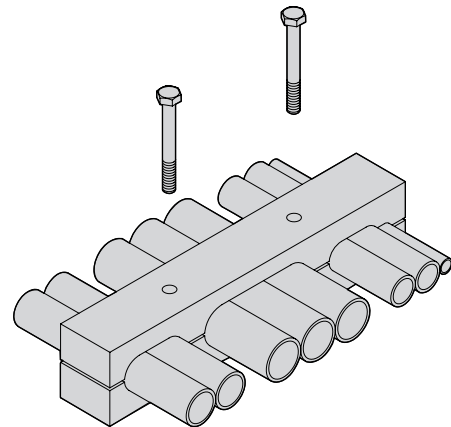
Clamps with oval hole for fixing electric cables. Clamp type C7 for the standard series for cable diameters between 20 and 50 mm. Clamp type CP4 for the heavy series for cable diameters between 40 and 72 mm.

Accessories: see Standard series and Heavy series.

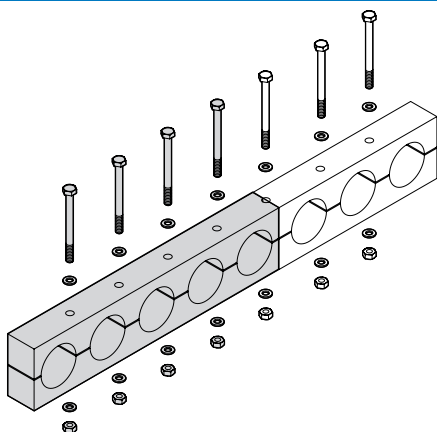
Special clamps to 4 diameters



Special clamps for tubes side by side



Special clamps from 5 to 8 diameters



NOTES

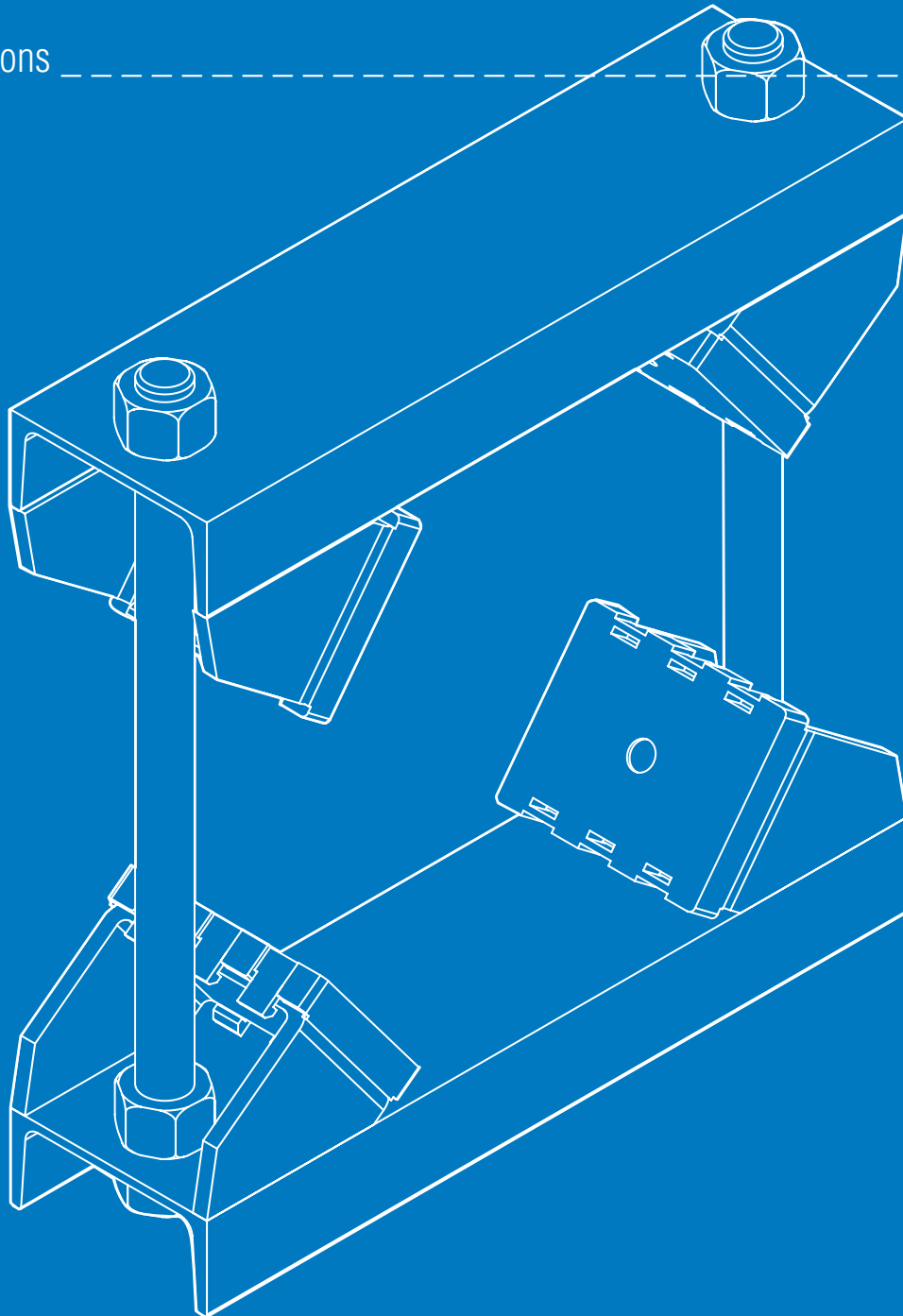
Custom designed pipe clamps, according to customer's specifications.

Accessories are available on request.

Materials: plastics and metal accessories.

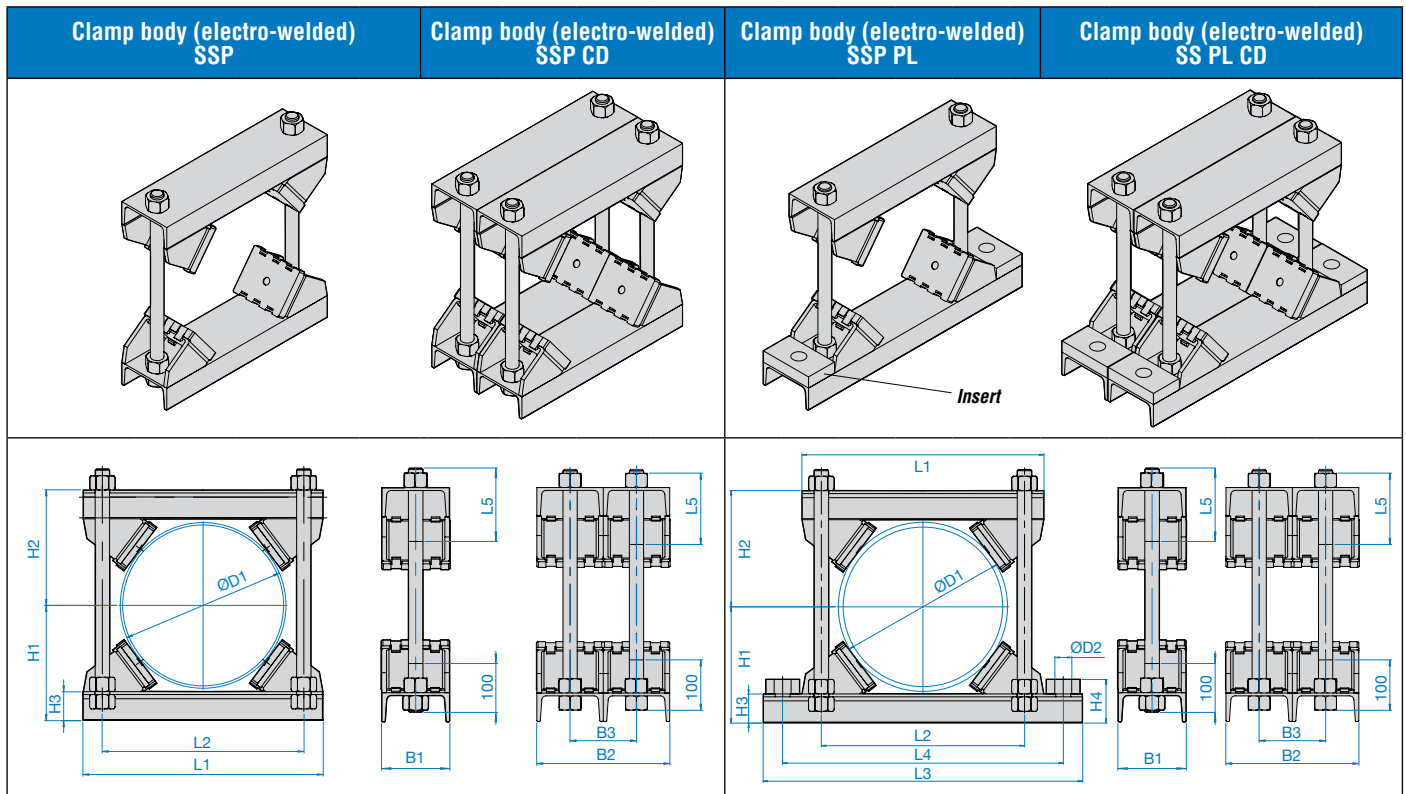
Super HEAVYWEIGHT Series

- Order codes p 64
- Dimensions p 64



SUPER HEAVYWEIGHT SERIES

Electro-welded Clamps



Carbon steel St430
code SSP - SSP PL
SSP CD - SSP PL CD
Electro-welded clamp
with U profile NP 140
Surface finishing zinc plated
Fe Zn c8 II

Steel brace in Carbon steel C45
Surface finishing
zinc plated Fe Zn c8 II

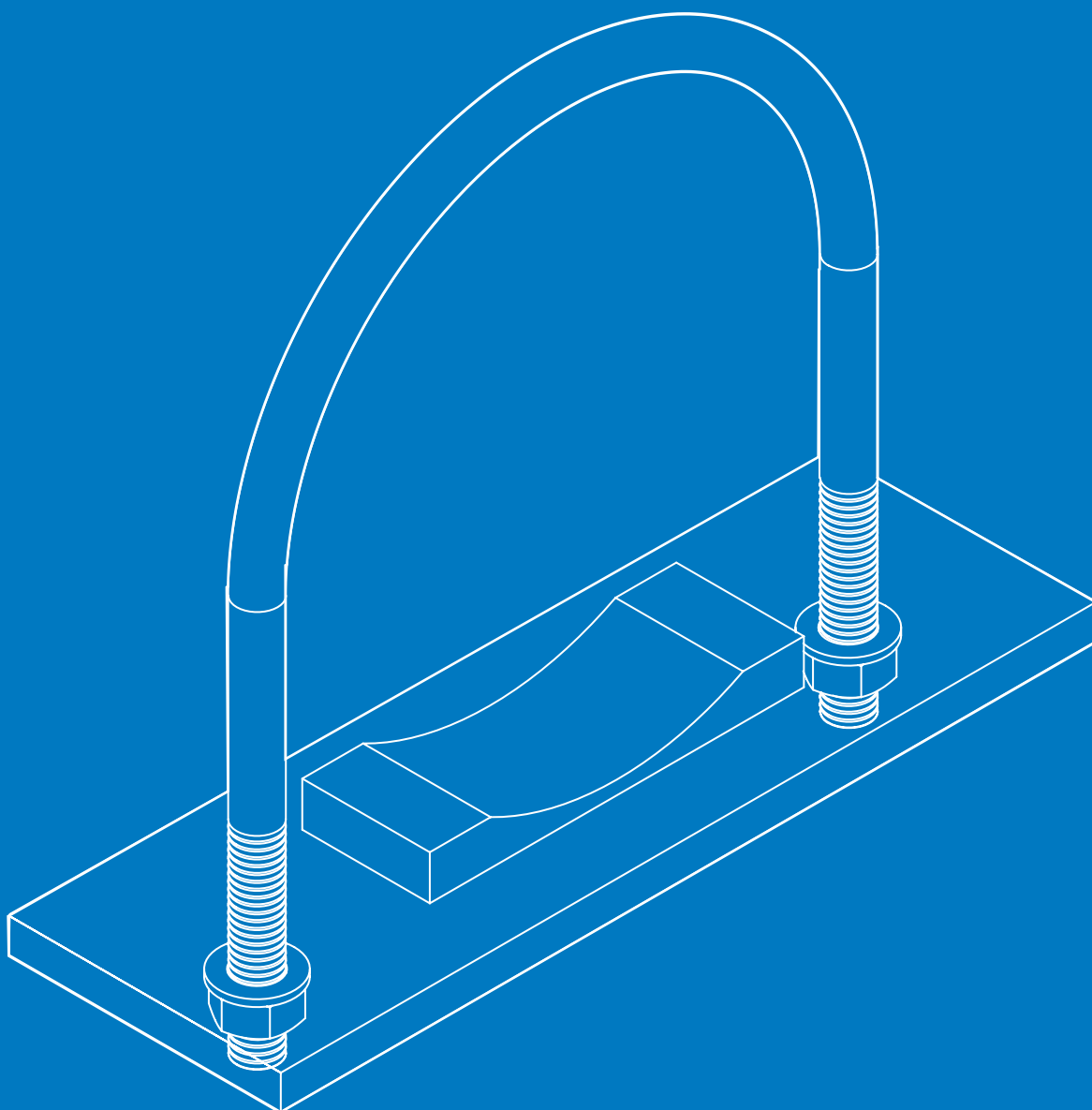
Zinc plated nut M30
Plastic pads Polypropylene

Elongated plate PL inserts on request
Carbon steel St430

| Code Pl.EFFE.CI. | O.D. of pipe ØD1 | L1 | L2 | L3 | L4 | H1 | H2 | H3 | H4 | B1 | B2 | B3 | ØD2 | Steel brace | L5 | Nut | Number of nuts | Number of plastic pads | | | | |
|--|---------------------|-----|-----|------|------|-----|-----|----|----|-----|-----|-----|-----|-------------|-----|-----|----------------|------------------------|-----------|-----------|-----------|----------|
| SSP10 SSP10 CD SSP10 PL SSP10 PL CD | 116-220 | 405 | 300 | 565 | 460 | 210 | 210 | 60 | 90 | 140 | 290 | 150 | 31 | M30x420 | 120 | M30 | 6 | 4 | | | | |
| | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD | | | | |
| SSP20 SSP20 CD SSP20 PL SSP20 PL CD | 221-275 | 440 | 334 | 600 | 494 | 220 | 220 | 60 | 90 | 140 | 290 | 150 | 31 | M30x450 | 150 | | M30 | 6 | 4 | | | |
| | | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD | | | |
| SSP30 SSP30 CD SSP30 PL SSP30 PL CD | 276-325 | 460 | 375 | 620 | 535 | 245 | 245 | 60 | 90 | 140 | 290 | 150 | 31 | M30x510 | 198 | | | M30 | 6 | 4 | | |
| | | | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD | | |
| SSP40 SSP40 CD SSP40 PL SSP40 PL CD | 326-370 | 500 | 420 | 660 | 580 | 270 | 270 | 60 | 90 | 140 | 290 | 150 | 31 | M30x550 | 150 | | | | M30 | 6 | 4 | |
| | | | | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD | |
| SSP50 SSP50 CD SSP50 PL SSP50 PL CD | 371-425 | 560 | 475 | 720 | 635 | 300 | 300 | 60 | 90 | 140 | 290 | 150 | 31 | M30x620 | 198 | | | | | M30 | 6 | 4 |
| | | | | | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD |
| SSP60 SSP60 CD SSP60 PL SSP60 PL CD | 426-480 | 620 | 535 | 800 | 735 | 325 | 325 | 60 | 90 | 140 | 290 | 150 | 31 | M30x680 | 180 | M30 | | | | | 6 | 4 |
| | | | | | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD |
| SSP70 SSP70 CD SSP70 PL SSP70 PL CD | 481-550 | 700 | 605 | 880 | 805 | 360 | 360 | 60 | 90 | 140 | 290 | 150 | 31 | M30x730 | 198 | | M30 | | | | 6 | 4 |
| | | | | | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD |
| SSP80 SSP80 CD SSP80 PL SSP80 PL CD | 551-630 | 760 | 670 | 940 | 870 | 410 | 410 | 60 | 90 | 140 | 290 | 150 | 31 | M30x800 | 198 | | | M30 | | | 6 | 4 |
| | | | | | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD |
| SSP90 SSP90 CD SSP90 PL SSP90 PL CD | 631-715 | 845 | 755 | 1025 | 955 | 452 | 452 | 60 | 90 | 140 | 290 | 150 | 31 | M30x884 | 280 | | | | M30 | | 6 | 4 |
| | | | | | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD |
| SSP100 SSP100 CD SSP100 PL SSP100 PL CD | 716-800 | 940 | 850 | 1120 | 1050 | 495 | 495 | 60 | 90 | 140 | 290 | 150 | 31 | M30x970 | 170 | | | | | M30 | 6 | 4 |
| | | | | | | | | | | | | | | | | | | | | | 12 for CD | 8 for CD |

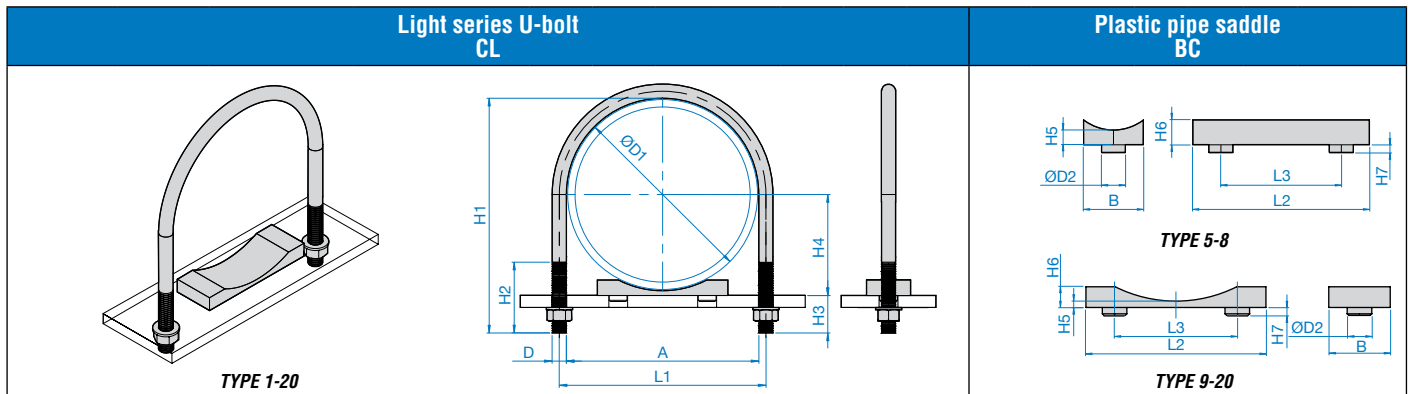
U-BOLT Clamps

- **Light** U-bolt clamp p 66
- **Medium** U-bolt clamp p 68
- **Heavy** U-bolt clamp p 70
- Round steel U-bolt clamp according to **DIN 3570** p 72



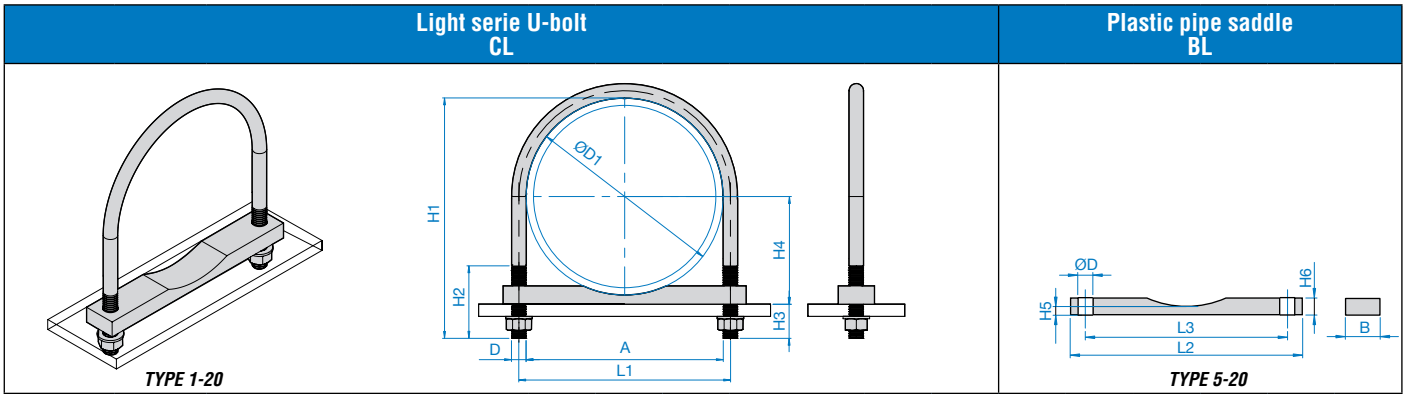
LIGHT SERIES U-BOLT

Type BC



For material characteristics see page 78. **Carbon steel St430 code CL**
Stainless steel AISI 304L code XCL **Plastic pipe saddle BC**
Material PP-PA

| Code PI.EFFE.CI. | O. D. of Pipe ØD1 | | U-bolts with 2 nuts and 2 washers. The U-bolts finish CRAPAL with flanged nuts DIN 6923 Dacromet. | | | | | | | | | Plastic pipe saddle on demand. | | | | | | |
|---------------------------|----------------------|---------------------------------|--|-----|-----|-----|----|------|-------|-----|-----|--------------------------------|----|----|----|----|-----|------|
| | in mm | nominal bore pipe in inch | Material and surface finishing | A | L1 | H1 | H2 | H3 | H4 | D | L2 | L3 | B | H5 | H6 | H7 | ØD2 | |
| CL 01 CZF 01 XCL 01 | 10 | 1/8" | St430 Zinc plated | 11 | 17 | 31 | 19 | 20 | 5 | M6 | 35 | 25 | 24 | 8 | 5 | 8 | 8 | |
| St430 Crapal | | | 29 | | | | | | | | | | | | | | | 18 |
| AISI 304L washed | | | 29 | | | | | | | | | | | | | | | 18 |
| CL 02 CZF 02 XCL 02 | 13,5 | 1/4" | St430 Zinc plated | 14 | 20 | 34 | 19 | 19,2 | 6,8 | M6 | 35 | 25 | 24 | 8 | 5 | 8 | 8 | |
| St430 Crapal | | | 32 | | | | | | | | | | | | | | | 17,2 |
| AISI 304L washed | | | 32 | | | | | | | | | | | | | | | 17,2 |
| CL 03 CZF 03 XCL 03 | 17,2 | 3/8" | St430 Zinc plated | 18 | 24 | 37 | 19 | 18,4 | 8,6 | M6 | 35 | 25 | 24 | 8 | 5 | 8 | 8 | |
| St430 Crapal | | | 36 | | | | | | | | | | | | | | | 17,4 |
| AISI 304L washed | | | 36 | | | | | | | | | | | | | | | 17,4 |
| CL 04 CZF 04 XCL 04 | 21,3 | 1/2" | St430 Zinc plated | 22 | 28 | 43 | 25 | 20,4 | 10,6 | M6 | 35 | 25 | 24 | 8 | 5 | 8 | 8 | |
| St430 Crapal | | | 40 | | | | | | | | | | | | | | | 17,4 |
| AISI 304L washed | | | 40 | | | | | | | | | | | | | | | 17,4 |
| CL 05 CZF 05 XCL 05 | 26,9 | 3/4" | St430 Zinc plated | 27 | 33 | 47 | 25 | 14,5 | 18,5 | M6 | 35 | 25 | 24 | 8 | 5 | 8 | 8 | |
| St430 Crapal | | | 45 | | | | | | | | | | | | | | | 12,5 |
| AISI 304L washed | | | 45 | | | | | | | | | | | | | | | 12,5 |
| CL 06 CZF 06 XCL 06 | 33,7 | 1" | St430 Zinc plated | 34 | 40 | 55 | 30 | 15,2 | 21,8 | M6 | 35 | 25 | 24 | 8 | 5 | 8 | 8 | |
| St430 Crapal | | | 52 | | | | | | | | | | | | | | | 12,2 |
| AISI 304L washed | | | 52 | | | | | | | | | | | | | | | 12,2 |
| CL 07 CZF 07 XCL 07 | 42,4 | 1.1/4" | St430 Zinc plated | 43 | 49 | 63 | 30 | 15 | 26 | M6 | 35 | 25 | 24 | 8 | 5 | 8 | 8 | |
| St430 Crapal | | | 61 | | | | | | | | | | | | | | | 13 |
| AISI 304L washed | | | 61 | | | | | | | | | | | | | | | 13 |
| CL 08 CZF 08 XCL 08 | 48,3 | 1.1/2" | St430 Zinc plated | 49 | 57 | 73 | 30 | 18,8 | 29,2 | M6 | 35 | 25 | 24 | 8 | 5 | 8 | 8 | |
| St430 Crapal | | | 70 | | | | | | | | | | | | | | | 15,8 |
| AISI 304L washed | | | 70 | | | | | | | | | | | | | | | 15,8 |
| CL 09 CZF 09 XCL 09 | 60,3 | 2" | St430 Zinc plated | 61 | 69 | 85 | 30 | 18,8 | 35,2 | M8 | 38 | 50 | 10 | 6 | 10 | 10 | 10 | |
| St430 Crapal | | | 82 | | | | | | | | | | | | | | | 15,8 |
| AISI 304L washed | | | 82 | | | | | | | | | | | | | | | 15,8 |
| CL 10 CZF 10 XCL 10 | 76,1 | 2.1/2" | St430 Zinc plated | 77 | 85 | 101 | 30 | 19 | 43 | M8 | 38 | 50 | 10 | 6 | 10 | 10 | 10 | |
| St430 Crapal | | | 98 | | | | | | | | | | | | | | | 16 |
| AISI 304L washed | | | 98 | | | | | | | | | | | | | | | 16 |
| CL 11 CZF 11 XCL 11 | 88,9 | 3" | St430 Zinc plated | 89 | 97 | 113 | 30 | 15,5 | 52,5 | M8 | 38 | 50 | 10 | 6 | 10 | 10 | 10 | |
| St430 Crapal | | | 110 | | | | | | | | | | | | | | | 12,5 |
| AISI 304L washed | | | 110 | | | | | | | | | | | | | | | 12,5 |
| CL 12 CZF 12 XCL 12 | 102 | 3.1/2" | St430 Zinc plated | 102 | 110 | 130 | 35 | 19 | 59 | M8 | 75 | 40 (40,5 PA) | 70 | 17 | 15 | 15 | 15 | |
| St430 Crapal | | | 127 | | | | | | | | | | | | | | | 16 |
| AISI 304L washed | | | 127 | | | | | | | | | | | | | | | 16 |
| CL 13 CZF 13 XCL 13 | 114,3 | 4" | St430 Zinc plated | 115 | 123 | 142 | 35 | 18,8 | 65,2 | M10 | 75 | 40 (40,5 PA) | 70 | 17 | 15 | 15 | 15 | |
| St430 Crapal | | | 123 | | | | | | | | | | | | | | | 139 |
| AISI 304L washed | | | 123 | | | | | | | | | | | | | | | 139 |
| CL 14 CZF 14 XCL 14 | 139,7 | 5" | St430 Zinc plated | 140 | 148 | 169 | 35 | 20,2 | 77,8 | M10 | 75 | 40 (40,5 PA) | 70 | 17 | 15 | 15 | 15 | |
| St430 Crapal | | | 150 | | | | | | | | | | | | | | | 165 |
| AISI 304L washed | | | 150 | | | | | | | | | | | | | | | 165 |
| CL 15 CZF 15 XCL 15 | 168 | 6" | St430 Zinc plated | 168 | 178 | 202 | 45 | 26 | 92 | M10 | 75 | 40 (40,5 PA) | 70 | 17 | 15 | 15 | 15 | |
| St430 Crapal | | | 196 | | | | | | | | | | | | | | | 20 |
| AISI 304L washed | | | 196 | | | | | | | | | | | | | | | 20 |
| CL 16 CZF 16 XCL 16 | 219 | 8" | St430 Zinc plated | 220 | 230 | 254 | 45 | 26,5 | 117,5 | M10 | 75 | 40 (40,5 PA) | 70 | 17 | 15 | 15 | 15 | |
| St430 Crapal | | | 248 | | | | | | | | | | | | | | | 20,5 |
| AISI 304L washed | | | 248 | | | | | | | | | | | | | | | 20,5 |
| CL 17 CZF 17 XCL 17 | 273 | 10" | St430 Zinc plated | 274 | 284 | 308 | 45 | 26,5 | 144,5 | M10 | 75 | 40 (40,5 PA) | 70 | 17 | 15 | 15 | 15 | |
| St430 Crapal | | | 302 | | | | | | | | | | | | | | | 20,5 |
| AISI 304L washed | | | 302 | | | | | | | | | | | | | | | 20,5 |
| CL 18 | 324 | 12" | St430 Zinc plated | 324 | 340 | 368 | 60 | 36 | 170 | M16 | 220 | 150 (152 PA) | 32 | 30 | 30 | 30 | 30 | |
| CL 19 | 356 | 14" | St430 Zinc plated | 356 | 372 | 400 | 60 | 36 | 186 | M16 | 220 | 150 (152 PA) | 32 | 30 | 30 | 30 | 30 | |
| CL 20 | 406,4 | 16" | St430 Zinc plated | 408 | 424 | 452 | 60 | 37 | 211 | M16 | 220 | 150 (152 PA) | 32 | 30 | 30 | 30 | 30 | |

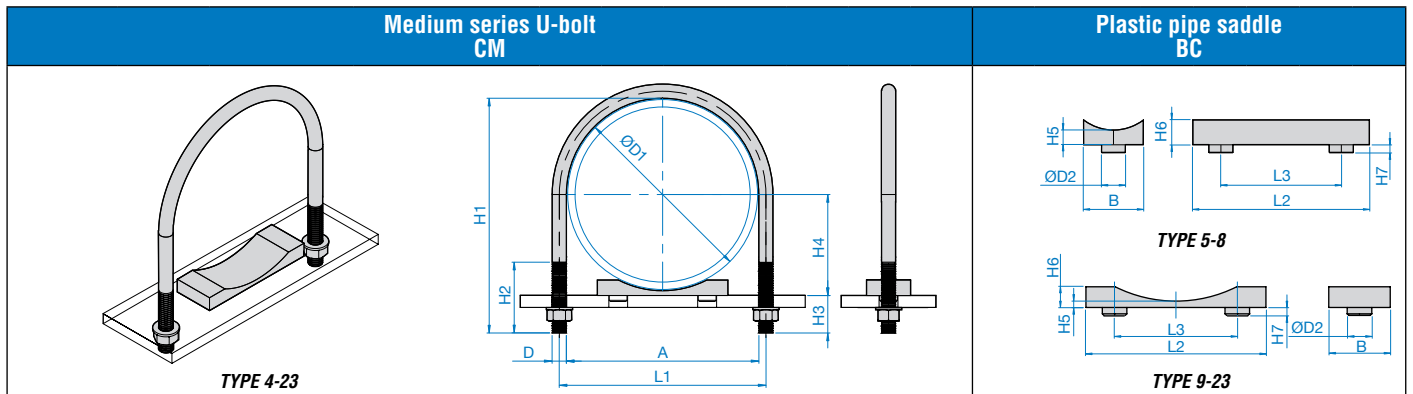


For material characteristics see page 78. **Carbon steel St430 code CL** **Stainless steel AISI 304L code XCL** **Plastic pipe saddle BL** **Material PP-PA**

| Code PI.EFFE.CI. | O.D. of Pipe ØD1 | | Material and surface finishing | U-bolts with 2 nuts and 2 washers. The U-bolts finish CRAPAL with flanged nuts DIN 6923 Dacromet. | | | | | | | D | Plastic pipe saddle on demand. | | | | | | | | | | | |
|---------------------------|---------------------|---------------------------------|---|--|-----|-----|----|------|-------|-----|-----|--------------------------------|-------|------|-----|------|------|------|------|-----|----|--|--|
| | in mm | nominal bore pipe in inch | | A | L1 | H1 | H2 | H3 | H4 | L2 | | L3 | B | H5 | H6 | ØD | | | | | | | |
| CL 01 CZF 01 XCL 01 | 10 | 1/8" | St430 Zinc plated | 11 | 17 | 31 | 19 | 20 | 5 | M6 | --- | | | | | | | | | | | | |
| St430 Crapal | | | 29 | | | | | | | | 16 | 18 | --- | | | | | | | | | | |
| AISI 304L washed | | | | | | | | | | | | | --- | | | | | | | | | | |
| CL 02 CZF 02 XCL 02 | 13,5 | 1/4" | St430 Zinc plated | 14 | 20 | 34 | 19 | 19,2 | 6,8 | | --- | | | | | | | | | | | | |
| St430 Crapal | | | 32 | | | | | | | | 16 | 17,2 | --- | | | | | | | | | | |
| AISI 304L washed | | | | | | | | | | | | | --- | | | | | | | | | | |
| CL 03 CZF 03 XCL 03 | 17,2 | 3/8" | St430 Zinc plated | 18 | 24 | 37 | 19 | 18,4 | 8,6 | | --- | | | | | | | | | | | | |
| St430 Crapal | | | 36 | | | | | | | | 16 | 17,4 | --- | | | | | | | | | | |
| AISI 304L washed | | | | | | | | | | | | | --- | | | | | | | | | | |
| CL 04 CZF 04 XCL 04 | 21,3 | 1/2" | St430 Zinc plated | 22 | 28 | 43 | 25 | 20,4 | 10,6 | | --- | | | | | | | | | | | | |
| St430 Crapal | | | 40 | | | | | | | | 18 | 17,4 | --- | | | | | | | | | | |
| AISI 304L washed | | | | | | | | | | | | | --- | | | | | | | | | | |
| CL 05 CZF 05 XCL 05 | 26,9 | 3/4" | St430 Zinc plated | 27 | 33 | 47 | 25 | 14,5 | 18,5 | | M8 | 70 | 37 | 30 | 12 | 11 | | | | | | | |
| St430 Crapal | | | 45 | | | | | | | | | | | | | | 18 | 12,5 | --- | | | | |
| AISI 304L washed | | | | | | | | | | | | --- | | | | | | | | | | | |
| CL 06 CZF 06 XCL 06 | 33,7 | 1" | St430 Zinc plated | 34 | 40 | 55 | 25 | 15,2 | 21,8 | 75 | | 43 | --- | | | | | | | | | | |
| St430 Crapal | | | 52 | | | | | | | | | | 18 | | | | 12,2 | --- | | | | | |
| AISI 304L washed | | | | | | | | | | --- | | | | | | | | | | | | | |
| CL 07 CZF 07 XCL 07 | 42,4 | 1.1/4" | St430 Zinc plated | 43 | 49 | 63 | 25 | 15 | 26 | M8 | | 75 | 52 | 5 | 15 | 13 | | | | | | | |
| St430 Crapal | | | 61 | | | | | | | | | | | | | | 18 | 13 | --- | | | | |
| AISI 304L washed | | | | | | | | | | | | --- | | | | | | | | | | | |
| CL 08 CZF 08 XCL 08 | 48,3 | 1.1/2" | St430 Zinc plated | 49 | 57 | 73 | 30 | 18,8 | 29,2 | | | 95 | 60 | | | | --- | | | | | | |
| St430 Crapal | | | 70 | | | | | | | | | | | | | | 28 | 15,8 | --- | | | | |
| AISI 304L washed | | | | | | | | | | | | --- | | | | | | | | | | | |
| CL 09 CZF 09 XCL 09 | 60,3 | 2" | St430 Zinc plated | 61 | 69 | 85 | 30 | 18,8 | 35,2 | | | M8 | 95 | 72 | 35 | 15 | 13 | | | | | | |
| St430 Crapal | | | 82 | | | | | | | | | | | | | | | 28 | 15,8 | --- | | | |
| AISI 304L washed | | | | | | | | | | | | | --- | | | | | | | | | | |
| CL 10 CZF 10 XCL 10 | 76,1 | 2.1/2" | St430 Zinc plated | 77 | 85 | 101 | 30 | 19 | 43 | | 115 | | 88 | --- | | | | | | | | | |
| St430 Crapal | | | 98 | | | | | | | | | | | 28 | | | | 16 | --- | | | | |
| AISI 304L washed | | | | | | | | | | | --- | | | | | | | | | | | | |
| CL 11 CZF 11 XCL 11 | 88,9 | 3" | St430 Zinc plated | 89 | 97 | 113 | 30 | 18,5 | 49,5 | | M8 | | 135 | 100 | --- | | | | | | | | |
| St430 Crapal | | | 110 | | | | | | | | | | | | 28 | 15,5 | --- | | | | | | |
| AISI 304L washed | | | | | | | | | | | | | --- | | | | | | | | | | |
| CL 12 CZF 12 XCL 12 | 102 | 3.1/2" | St430 Zinc plated | 102 | 110 | 130 | 35 | 17 | 61 | 150 | | | 117 | --- | | | | | | | | | |
| St430 Crapal | | | 127 | | | | | | | | | | | 14 | --- | | | | | | | | |
| AISI 304L washed | | | | | | | | | | --- | | | | | | | | | | | | | |
| CL 13 CZF 13 XCL 13 | 114,3 | 4" | St430 Zinc plated | 115 | 123 | 142 | 35 | 16,8 | 67,2 | M10 | | | 185 | 131 | 40 | 20 | 18 | | | | | | |
| St430 Crapal | | | 123 | | | | | | | | | | | | | | | 139 | 13,8 | --- | | | |
| AISI 304L washed | | | | | | | | | | | | | --- | | | | | | | | | | |
| CL 14 CZF 14 XCL 14 | 139,7 | 5" | St430 Zinc plated | 140 | 148 | 169 | 35 | 18,2 | 79,8 | | | 210 | 154,5 | --- | | | | | | | | | |
| St430 Crapal | | | 148 | | | | | | | | | | | 165 | | | | 14,2 | --- | | | | |
| AISI 304L washed | | | | | | | | | | | | --- | | | | | | | | | | | |
| CL 15 CZF 15 XCL 15 | 168 | 6" | St430 Zinc plated | 168 | 178 | 202 | 45 | 24 | 94 | | | M10 | 220 | 182 | 50 | 25 | 22 | | | | | | |
| St430 Crapal | | | 196 | | | | | | | | | | | | | | | 18 | --- | | | | |
| AISI 304L washed | | | | | | | | | | | | | --- | | | | | | | | | | |
| CL 16 CZF 16 XCL 16 | 219,1 | 8" | St430 Zinc plated | 220 | 230 | 254 | 45 | 24,5 | 119,5 | | 280 | | 240 | --- | | | | | | | | | |
| St430 Crapal | | | 248 | | | | | | | | | | | 18,5 | | | | --- | | | | | |
| AISI 304L washed | | | | | | | | | | | --- | | | | | | | | | | | | |
| CL 17 CZF 17 XCL 17 | 273 | 10" | St430 Zinc plated | 274 | 284 | 308 | 45 | 24,5 | 146,5 | | M10 | | 350 | 294 | 50 | 25 | 22 | | | | | | |
| St430 Crapal | | | 302 | | | | | | | | | | | | | | | 18,5 | --- | | | | |
| AISI 304L washed | | | | | | | | | | | | | --- | | | | | | | | | | |
| CL 18 | 324 | 12" | St430 Zinc plated | 324 | 340 | 368 | 45 | 29 | 177 | M16 | | | 420 | 348 | | | | 60 | 15 | 30 | 26 | | |
| CL 19 | 356 | 14" | St430 Zinc plated | 356 | 372 | 400 | 45 | 29 | 193 | | | | 460 | 380 | | | | | | | | | |
| CL 20 | 406,4 | 16" | St430 Zinc plated | 408 | 424 | 452 | 45 | 30 | 218 | | | | 510 | 432 | | | | | | | | | |

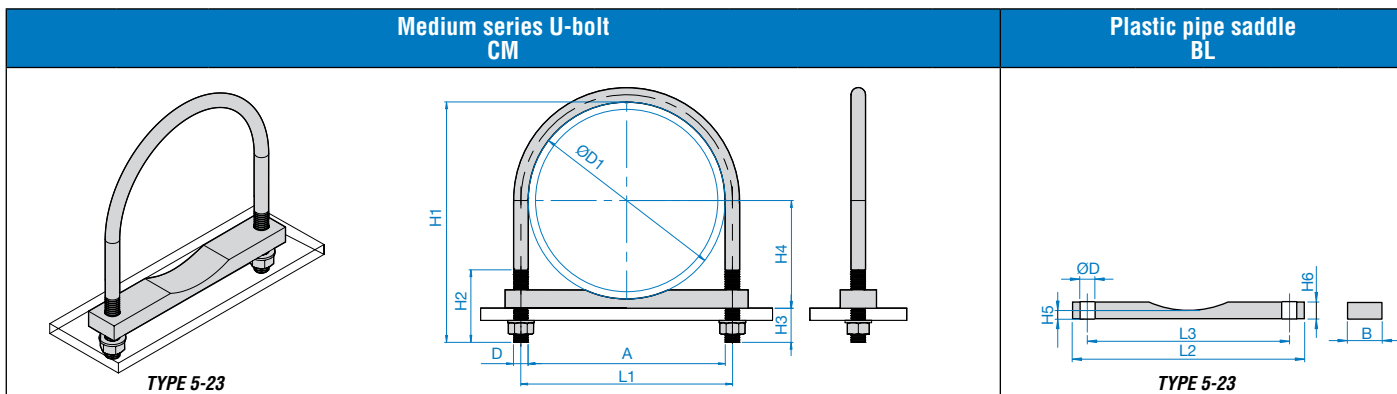
MEDIUM SERIES U-BOLT

Type BC



For material characteristics see page 78. **Carbon steel St430 code CM**
Stainless steel AISI 304L code XCM **Plastic pipe saddle BC**
Material PP-PA

| Code P.I.EFFE.CI. | O.D. of Pipe ØD1 | | Material and surface finishing | U-bolts with 2 nuts and 2 washers. | | | | | | | D | Plastic pipe saddle on demand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---------------------|---------------------------------|--------------------------------------|------------------------------------|-----|-----|----|------|-------|-----|-----|--------------------------------|-----------------|-----------------|----|----|-----|-----|-----|-----------------|----|----|----|-----|-----|-----|-----------------|----|----|----|-----|-----|---------------|-----------------|----|----|----|-----|-----|-----------------|-----------------|----|----|----|----|
| | in mm | nominal bore pipe in inch | | A | L1 | H1 | H2 | H3 | H4 | L2 | | L3 | B | H5 | H6 | H7 | ØD2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 04 XCM 04 | 21,3 | 1/2" | St430 Zinc plated | 22 | 30 | 52 | 30 | 29,4 | 10,6 | M8 | 35 | 25 | 24 | 5 | 8 | 5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 316L washed | | | 48 | 25 | 25,4 | | | | | | | | | | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 05 XCM 05 | 26,9 | 3/4" | St430 Zinc plated | 27 | 35 | 56 | 30 | 23,5 | 18,5 | | | | | | | | | M10 | 38 | 25 | 50 | 10 | 6 | 10 | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 316L washed | | | 52 | 25 | 19,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 06 XCM 06 | 33,7 | 1" | St430 Zinc plated | 34 | 42 | 64 | 30 | 24,2 | 21,8 | | | | | | | | | | | | | | | | M12 | 75 | 40 (40,5 PA) | 70 | 17 | 15 | | | | | | | | | | | | | | | |
| | | | AISI 316L washed | | | 60 | 25 | 20,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 07 XCM 07 | 42,4 | 1.1/4" | St430 Zinc plated | 43 | 51 | 72 | 30 | 23,8 | 26,2 | | | | | | | | | | | | | | | | | | | | | | M16 | 140 | 90 (91 PA) | 8 | 26 | 10 | 25 | | | | | | | | |
| | | | AISI 316L washed | | | 68 | 25 | 19,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 08 XCM 08 | 48,3 | 1.1/2" | St430 Zinc plated | 49 | 59 | 82 | 40 | 27,8 | 29,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | M20 | 220 | 150 (152 PA) | 75 | 32 | 30 | | |
| | | | AISI 316L washed | | | 78 | 36 | 23,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 09 XCM 09 | 60,3 | 2" | St430 Zinc plated | 61 | 71 | 94 | 40 | 27,8 | 35,2 | | M20 | 220 | 150 (152 PA) | 75 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 316L washed | | | 90 | 36 | 23,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 10 XCM 10 | 76,1 | 2.1/2" | St430 Zinc plated | 77 | 87 | 110 | 40 | 28 | 43 | | | | | | | | M20 | | 220 | 150 (152 PA) | 75 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 316L washed | | | 106 | 36 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 11 XCM 11 | 88,9 | 3" | St430 Zinc plated | 89 | 99 | 122 | 40 | 27,5 | 49,5 | | | | | | | | | | | | | | | M20 | | 220 | 150 (152 PA) | 75 | 32 | 30 | | | | | | | | | | | | | | | |
| | | | AISI 316L washed | | | 118 | 36 | 23,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 12 | 102 | 3.1/2" | St430 Zinc plated | 102 | 114 | 142 | 50 | 35 | 56 | | | | | | | | | | | | | | | | | | | | | | | M20 | 220 | 150 (152 PA) | 75 | 32 | 30 | | | | | | | | |
| CM 13 | 114,3 | 4" | St430 Zinc plated | 115 | 127 | 156 | 50 | 35,8 | 62,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 14 | 139,7 | 5" | St430 Zinc plated | 140 | 152 | 180 | 50 | 35,2 | 74,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | M20 | 220 | 150 (152 PA) | 75 | 32 | 30 | |
| CM 15 | 168 | 6" | St430 Zinc plated | 168 | 180 | 208 | 50 | 35 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 16 | 219 | 8" | St430 Zinc plated | 220 | 236 | 267 | 60 | 42,5 | 114,5 | | | M20 | 220 | 150 (152 PA) | 75 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 |
| CM 17 | 273 | 10" | St430 Zinc plated | 274 | 290 | 321 | | 42,5 | 141,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 18 | 324 | 12" | St430 Zinc plated | 324 | 344 | 379 | 70 | 46 | 170 | M20 | | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | |
| CM 19 | 356 | 14" | St430 Zinc plated | 356 | 376 | 411 | | 46 | 186 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 20 | 406,4 | 16" | St430 Zinc plated | 408 | 428 | 463 | 70 | 46,8 | 211,2 | | | | | | | | | M20 | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 30 | | | | | | | | | | | | | | | |
| CM 21 | 457,2 | 18" | St430 Zinc plated | 460 | 480 | 515 | | 47,4 | 236,6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CM 22 | 508 | 20" | St430 Zinc plated | 510 | 530 | 565 | 70 | 47 | 262 | | | | | | | | | | | | | | | | M20 | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 30 | | | | | | | | |
| CM 23 | 609,6 | 24" | St430 Zinc plated | 612 | 632 | 667 | | 47,2 | 312,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



TYPE 5-23

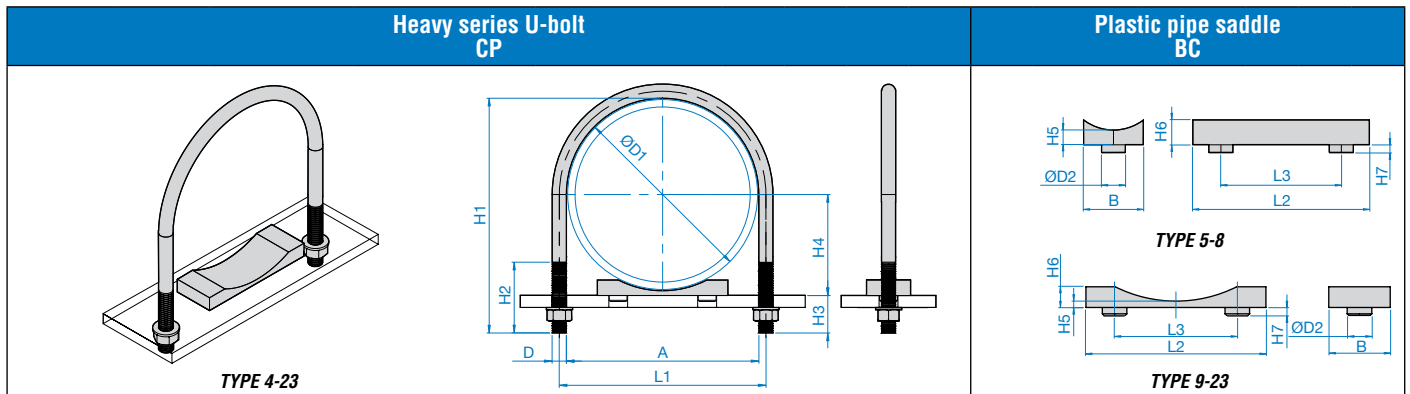
TYPE 5-23

For material characteristics see page 78. Carbon steel St430 code CM Stainless steel AISI 304L code XCM Plastic pipe saddle BL Material PP-PA

| Code PI.EFFE.CI. | O.D. of Pipe ØD1 | | Material and surface finishing | U-bolts with 2 nuts and 2 washers. | | | | | | | D | Plastic pipe saddle on demand. | | | | | |
|---------------------|---------------------|---------------------------------|--------------------------------------|------------------------------------|-----|-----|----|------|-------|-----|-----|--------------------------------|----|----|----|----|--|
| | in mm | nominal bore pipe in inch | | A | L1 | H1 | H2 | H3 | H4 | L2 | | L3 | B | H5 | H6 | ØD | |
| CM 04 XCM 04 | 21,3 | 1/2" | St430 Zinc plated | 22 | 30 | 52 | 30 | 29,4 | 10,6 | M8 | --- | | | | | | |
| | | | AISI 316L washed | | | 48 | 25 | 25,4 | | | | | | | | | |
| CM 05 XCM 05 | 26,9 | 3/4" | St430 Zinc plated | 27 | 35 | 56 | 30 | 23,5 | 18,5 | | 70 | 37 | 30 | 12 | 11 | | |
| | | | AISI 316L washed | | | 52 | 25 | 19,5 | | | | | | | | | |
| CM 06 XCM 06 | 33,7 | 1" | St430 Zinc plated | 34 | 42 | 64 | 30 | 24,2 | 21,8 | | 75 | 43 | 5 | 15 | 13 | | |
| | | | AISI 316L washed | | | 60 | 25 | 20,2 | | | | | | | | | |
| CM 07 XCM 07 | 42,4 | 1.1/4" | St430 Zinc plated | 43 | 51 | 72 | 30 | 24 | 26 | | 75 | 52 | 10 | 20 | 18 | | |
| | | | AISI 316L washed | | | 68 | 25 | 20 | | | | | | | | | |
| CM 08 XCM 08 | 48,3 | 1.1/2" | St430 Zinc plated | 49 | 59 | 82 | 40 | 27,8 | 29,2 | | 95 | 60 | 15 | 20 | 18 | | |
| | | | AISI 316L washed | | | 78 | 36 | 23,8 | | | | | | | | | |
| CM 09 XCM 09 | 60,3 | 2" | St430 Zinc plated | 61 | 71 | 94 | 40 | 27,8 | 35,2 | 95 | 72 | 10 | 25 | 22 | | | |
| | | | AISI 316L washed | | | 90 | 36 | 23,8 | | | | | | | | | |
| CM 10 XCM 10 | 76,1 | 2.1/2" | St430 Zinc plated | 77 | 87 | 110 | 40 | 28 | 43 | 115 | 88 | 15 | 25 | 22 | | | |
| | | | AISI 316L washed | | | 106 | 36 | 24 | | | | | | | | | |
| CM 11 XCM 11 | 88,9 | 3" | St430 Zinc plated | 89 | 99 | 122 | 40 | 27,5 | 49,5 | 135 | 100 | 15 | 25 | 22 | | | |
| | | | AISI 316L washed | | | 118 | 36 | 23,5 | | | | | | | | | |
| CM 12 | 102 | 3.1/2" | St430 Zinc plated | 102 | 114 | 142 | 50 | 30 | 61 | M12 | 150 | 117 | 40 | 10 | 20 | 18 | |
| CM 13 | 114,3 | 4" | St430 Zinc plated | 115 | 127 | 156 | 50 | 30,8 | 67,2 | | 185 | 131 | | | | | |
| CM 14 | 139,7 | 5" | St430 Zinc plated | 140 | 152 | 180 | 50 | 30,2 | 79,8 | | 210 | 154,5 | | | | | |
| CM 15 | 168 | 6" | St430 Zinc plated | 168 | 180 | 208 | 50 | 30 | 94 | | 220 | 182 | | | | | |
| CM 16 | 219 | 8" | St430 Zinc plated | 220 | 236 | 267 | 60 | 37,5 | 119,5 | M16 | 280 | 240 | 50 | 15 | 30 | 26 | |
| CM 17 | 273 | 10" | St430 Zinc plated | 274 | 290 | 321 | | 37,5 | 146,5 | | 350 | 294 | | | | | |
| CM 18 | 324 | 12" | St430 Zinc plated | 324 | 344 | 379 | 70 | 39 | 177 | M20 | 420 | 348 | 60 | 15 | 30 | 26 | |
| CM 19 | 356 | 14" | St430 Zinc plated | 356 | 372 | 411 | | 39 | 193 | | 460 | 380 | | | | | |
| CM 20 | 406,4 | 16" | St430 Zinc plated | 408 | 428 | 463 | | 39,8 | 218,2 | | 510 | 432 | | | | | |
| CM 21 | 457,2 | 18" | St430 Zinc plated | 460 | 480 | 515 | | 40,4 | 243,6 | | 550 | 484 | | | | | |
| CM 22 | 508 | 20" | St430 Zinc plated | 510 | 530 | 565 | | 40 | 269 | | 600 | 534 | | | | | |
| CM 23 | 609,6 | 24" | St430 Zinc plated | 612 | 632 | 667 | | 40,2 | 319,8 | | 700 | 636 | | | | | |

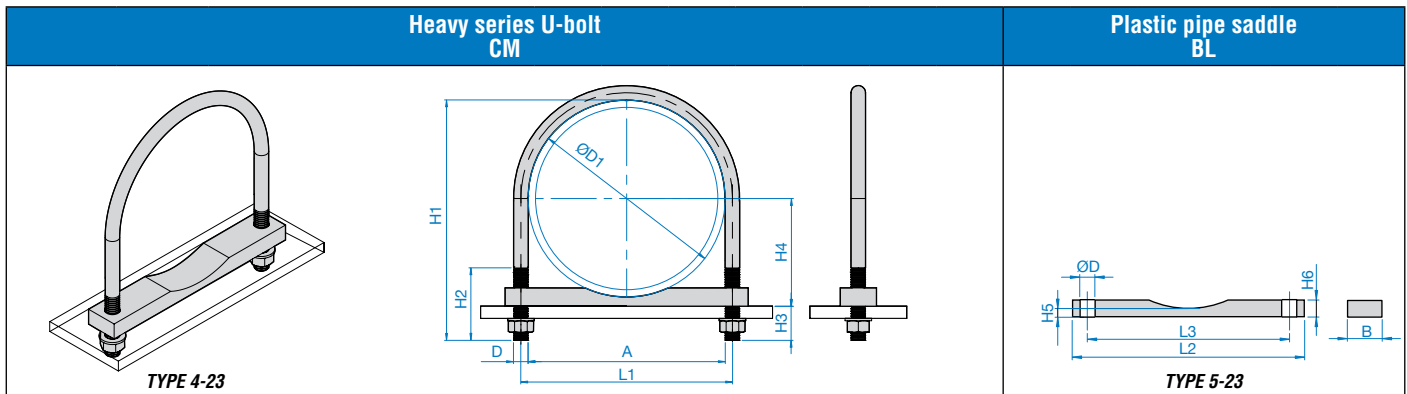
HEAVY SERIES U-BOLT

Type BC



For material characteristics see page 78. Carbon steel St430 code CP Stainless steel AISI 304L code XCP Plastic pipe saddle BC Material PP-PA

| Code P.L.EFFE.CI. | O.D. of Pipe ØD1 | | Material and surface finishing | U-bolts with 2 nuts and 2 washers. | | | | | | | Plastic pipe saddle on demand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---------------------|---------------------------------|--------------------------------------|------------------------------------|-----|-----|----|------|-------|-----|--------------------------------|-----------------|-----------------|----|----|----|-----|-----|-----------------|----|----|----|----|----|-----|-----------------|-----------------|----|----|----|----|-----|-----------------|-----------------|----|----|----|----|-----|-----------------|----|----|----|----|----|-----|-----------------|----|----|----|----|----|-----|-----------------|----|----|----|----|----|-----|-----------------|----|----|----|----|-----|-----|-----------------|----|----|----|----|----|----|-----|-----|-----------------|----|----|----|----|
| | in mm | nominal bore pipe in inch | | A | L1 | H1 | H2 | H3 | H4 | D | L2 | L3 | B | H5 | H6 | H7 | ØD2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 04 XCP 04 | 21,3 | 1/2" | St430 Zinc plated | 22 | 32 | 60 | 40 | 38,3 | 10,7 | M10 | 35 | 25 | 24 | 5 | 8 | 5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 30 | 48 | 25 | 25,3 | | M8 | | | | | | | | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 05 XCP 05 | 26,9 | 3/4" | St430 Zinc plated | 27 | 37 | 66 | 40 | 33,5 | 18,5 | M10 | | | | | | | | 38 | 50 | 70 | 17 | 10 | 6 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 35 | 52 | 25 | 19,5 | | M8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 06 XCP 06 | 33,7 | 1" | St430 Zinc plated | 34 | 44 | 72 | 40 | 33,2 | 21,8 | M10 | | | | | | | | | | | | | | | 75 | 40 (40,5 PA) | 70 | 8 | 26 | 10 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 42 | 60 | 25 | 20,2 | | M8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 07 XCP 07 | 42,4 | 1.1/4" | St430 Zinc plated | 43 | 53 | 82 | 40 | 33,8 | 26,2 | M10 | | | | | | | | | | | | | | | | | | | | | | 140 | 90 (91 PA) | 75 | 8 | 10 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 51 | 68 | 25 | 19,8 | | M8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 08 XCP 08 | 48,3 | 1.1/2" | St430 Zinc plated | 49 | 61 | 100 | 60 | 45,8 | 29,2 | M12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 59 | 78 | 36 | 23,8 | | M10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 09 XCP 09 | 60,3 | 2" | St430 Zinc plated | 61 | 73 | 112 | 60 | 45,8 | 35,2 | M12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 71 | 90 | 36 | 23,8 | | M10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 10 XCP 10 | 76,1 | 2.1/2" | St430 Zinc plated | 77 | 89 | 128 | 60 | 46 | 43 | M12 | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 87 | 106 | 36 | 24 | | M10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 11 XCP 11 | 88,9 | 3" | St430 Zinc plated | 89 | 101 | 140 | 60 | 45,5 | 49,5 | M12 | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 99 | 118 | 36 | 23,5 | | M10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 12 XCP 12 | 102 | 3.1/2" | St430 Zinc plated | 102 | 118 | 159 | 70 | 52 | 56 | M16 | | | | | | | | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 114 | 137 | 45 | 30 | | M12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 13 XCP 13 | 114,3 | 4" | St430 Zinc plated | 115 | 131 | 173 | 70 | 52,8 | 62,2 | M16 | | | | | | | | | | | | | | | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 127 | 151 | 45 | 30,8 | | M12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 14 XCP 14 | 139,7 | 5" | St430 Zinc plated | 140 | 156 | 197 | 70 | 52,2 | 74,8 | M16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | AISI 304L washed | | 152 | 175 | 45 | 30,2 | | M12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 15 | 168 | 6" | St430 Zinc plated | 168 | 184 | 225 | 70 | 52 | 89 | M16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 16 | 219 | 8" | St430 Zinc plated | 220 | 240 | 285 | 80 | 59,5 | 114,5 | M20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | | |
| CP 17 | 273 | 10" | St430 Zinc plated | 274 | 294 | 339 | | 59,5 | 141,5 | | M24 | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | | | | | | | | | | | | | | | | | | | |
| CP 18 | 324 | 12" | St430 Zinc plated | 324 | 348 | 396 | 90 | 63 | 170 | M24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | | | | | | | | | | | | | | | | |
| CP 19 | 356 | 14" | St430 Zinc plated | 356 | 380 | 428 | | 63 | 186 | | M24 | | | | | | | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP 20 | 406,4 | 16" | St430 Zinc plated | 408 | 432 | 480 | | 63,8 | 211,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | M24 | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | 30 | | | | | | | | |
| CP 21 | 457,2 | 18" | St430 Zinc plated | 460 | 484 | 532 | | 64,4 | 236,6 | | | | | | | | | | | | | | | | M24 | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | | | | |
| CP 22 | 508 | 20" | St430 Zinc plated | 510 | 534 | 582 | | 64 | 262 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | M24 | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 |
| CP 23 | 609,6 | 24" | St430 Zinc plated | 612 | 636 | 684 | | 64,2 | 312,8 | | | | | | | | | | | | | | | | | | | | | | | M24 | 220 | 150 (152 PA) | 75 | 32 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



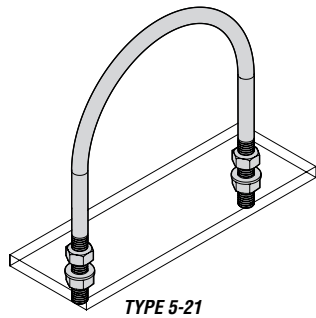
For material characteristics see page 78. Carbon steel St430 code CP Stainless steel AISI 304L code XCP Plastic pipe saddle BL Material PP-PA

| Code PI.EFFE.CI. | O.D. of Pipe ØD1 | | Material and surface finishing | U-bolts with 2 nuts and 2 washers. | | | | | | | Plastic pipe saddle on demand. | | | | | | |
|---------------------|---------------------|---------------------------------|--------------------------------------|------------------------------------|-----|-----|----|------|-------|-----|--------------------------------|-------|----|------|----|-----|-----|
| | in mm | nominal bore pipe in inch | | A | L1 | H1 | H2 | H3 | H4 | D | L2 | L3 | B | H5 | H6 | ØD | |
| CP 04 XCP 04 | 21,3 | 1/2" | St430 Zinc plated | 22 | 32 | 60 | 40 | 38,3 | 10,7 | M10 | --- | | | | | | |
| | | | AISI 304L washed | | | | | | | | 30 | 48 | 25 | 25,3 | M8 | | |
| CP 05 XCP 05 | 26,9 | 3/4" | St430 Zinc plated | 27 | 37 | 66 | 40 | 33,5 | 18,5 | M10 | 70 | 37 | 30 | 12 | 11 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 35 | 52 |
| CP 06 XCP 06 | 33,7 | 1" | St430 Zinc plated | 34 | 44 | 72 | 40 | 33,2 | 21,8 | M10 | 75 | 43 | 30 | 12 | 11 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 42 | 60 |
| CP 07 XCP 07 | 42,4 | 1.1/4" | St430 Zinc plated | 43 | 53 | 82 | 40 | 33,8 | 26,2 | M10 | 75 | 52 | 30 | 12 | 11 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 51 | 68 |
| CP 08 XCP 08 | 48,3 | 1.1/2" | St430 Zinc plated | 49 | 61 | 100 | 60 | 45,8 | 29,2 | M12 | 95 | 60 | 35 | 5 | 15 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 59 | 78 |
| CP 09 XCP 09 | 60,3 | 2" | St430 Zinc plated | 61 | 73 | 112 | 60 | 45,8 | 35,2 | M12 | 95 | 72 | 35 | 15 | 13 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 71 | 90 |
| CP 10 XCP 10 | 76,1 | 2.1/2" | St430 Zinc plated | 77 | 89 | 128 | 60 | 46 | 43 | M12 | 115 | 88 | 35 | 15 | 13 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 87 | 106 |
| CP 11 XCP 11 | 88,9 | 3" | St430 Zinc plated | 89 | 101 | 140 | 60 | 45,5 | 49,5 | M12 | 135 | 100 | 35 | 15 | 13 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 99 | 118 |
| CP 12 XCP 12 | 102 | 3.1/2" | St430 Zinc plated | 102 | 118 | 159 | 70 | 47 | 61 | M16 | 150 | 117 | 35 | 15 | 13 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 114 | 137 |
| CP 13 XCP 13 | 114,3 | 4" | St430 Zinc plated | 115 | 131 | 173 | 70 | 47,8 | 67,2 | M16 | 185 | 131 | 40 | 20 | 18 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 127 | 151 |
| CP 14 XCP 14 | 139,7 | 5" | St430 Zinc plated | 140 | 156 | 197 | 70 | 47,2 | 79,8 | M16 | 210 | 154,5 | 40 | 20 | 18 | | |
| | | | AISI 304L washed | | | | | | | | | | | | | 152 | 175 |
| CP 15 | 168 | 6" | St430 Zinc plated | 168 | 184 | 225 | 70 | 47 | 94 | M16 | 220 | 182 | 40 | 20 | 18 | | |
| CP 16 | 219 | 8" | St430 Zinc plated | 220 | 240 | 285 | 80 | 54,5 | 119,5 | M20 | 280 | 240 | 50 | 25 | 22 | | |
| CP 17 | 273 | 10" | St430 Zinc plated | 274 | 294 | 339 | | | | | 54,5 | 146,5 | | | | 350 | 294 |
| CP 18 | 324 | 12" | St430 Zinc plated | 324 | 348 | 396 | 90 | 56 | 177 | M24 | 420 | 348 | 60 | 15 | 30 | | |
| CP 19 | 356 | 14" | St430 Zinc plated | 356 | 380 | 458 | | | | | 56 | 193 | | | | 460 | 380 |
| CP 20 | 406,4 | 16" | St430 Zinc plated | 408 | 432 | 480 | | | | | 56,8 | 218,2 | | | | 510 | 432 |
| CP 21 | 457,2 | 18" | St430 Zinc plated | 460 | 484 | 532 | | | | | 57,4 | 243,6 | | | | 550 | 484 |
| CP 22 | 508 | 20" | St430 Zinc plated | 510 | 534 | 582 | | | | | 57 | 269 | | | | 600 | 534 |
| CP 23 | 609,6 | 24" | St430 Zinc plated | 612 | 636 | 684 | | | | | 57,2 | 319,8 | | | | 700 | 636 |

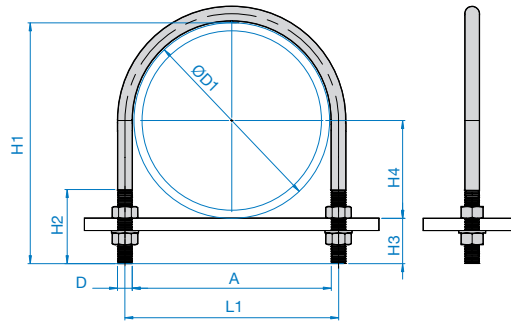
ROUND STEEL U-BOLT ACCORDING TO DIN3570

Order Codes and Dimensions

U-bolt DIN
CD



TYPE 5-21



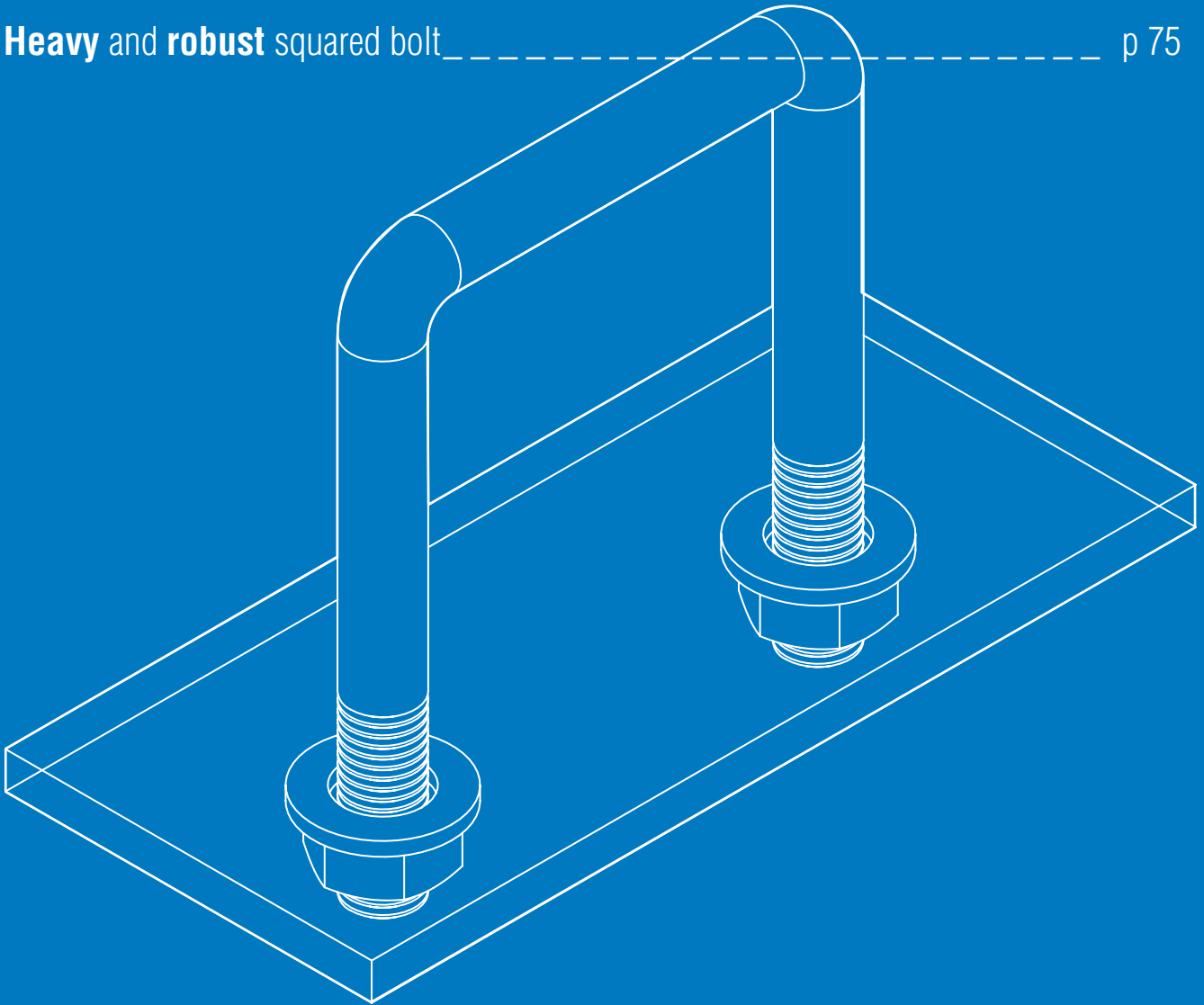
For material characteristics
see page 78.

Round steel U-bolt
Carbon steel St430 code CD

| Code PI.EFFE.CI. | O.D. of Pipe ØD1 | | Material and surface finishing | U-bolts with 4 nuts and 2 washers. | | | | | | |
|---------------------|---------------------|---------------------------------|--------------------------------------|------------------------------------|-----|-----|----|------|-------|-----|
| | in mm | nominal bore pipe in inch | | A | L1 | H1 | H2 | H3 | H4 | D |
| CD 05 | 26,9 | 3/4" | St430 Zinc plated | 30 | 40 | 60 | 40 | 33,1 | 13,5 | M10 |
| CD 06 | 33,7 | 1" | St430 Zinc plated | 38 | 48 | 66 | | 32,3 | 16,9 | |
| CD 07 | 42,4 | 1.1/4" | St430 Zinc plated | 46 | 56 | 76 | | 33,6 | 21,2 | |
| CD 08 | 48,3 | 1.1/2" | St430 Zinc plated | 52 | 62 | 82 | 50 | 33,7 | 24,2 | M12 |
| CD 09 | 60,3 | 2" | St430 Zinc plated | 64 | 76 | 97 | | 36,7 | 35,2 | |
| CD 10 | 76,1 | 2.1/2" | St430 Zinc plated | 82 | 94 | 113 | | 36,9 | 30,2 | |
| CD 11 | 88,9 | 3" | St430 Zinc plated | 94 | 106 | 126 | 60 | 37,1 | 44,5 | M16 |
| CD 12 | 114,3 | 4" | St430 Zinc plated | 120 | 136 | 155 | | 40,7 | 57,2 | |
| CD 13 | 139,7 | 5" | St430 Zinc plated | 148 | 164 | 175 | | 35,3 | 69,9 | |
| CD 14 | 168,3 | 6" | St430 Zinc plated | 176 | 192 | 201 | 70 | 32,7 | 84,2 | M20 |
| CD 15 | 193,7 | 7" | St430 Zinc plated | 202 | 218 | 233 | | 39,3 | 96,9 | |
| CD 16 | 219,1 | 8" | St430 Zinc plated | 228 | 248 | 263 | | 43,9 | 109,6 | |
| CD 17 | 273 | 10" | St430 Zinc plated | 282 | 302 | 314 | 70 | 41 | 136,5 | M24 |
| CD 18 | 324 | 12" | St430 Zinc plated | 332 | 352 | 365 | | 41 | 162 | |
| CD 19 | 356 | 14" | St430 Zinc plated | 378 | 402 | 411 | | 55 | 178 | |
| CD 20 | 406,4 | 16" | St430 Zinc plated | 428 | 452 | 463 | 70 | 56,6 | 203,2 | M24 |
| CD 21 | 508 | 20" | St430 Zinc plated | 530 | 554 | 565 | | 57 | 254 | |

SQUARED U-Bolts

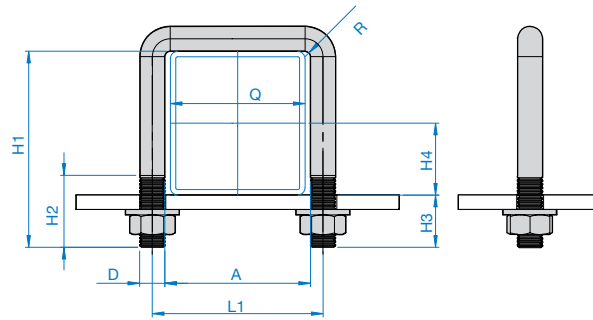
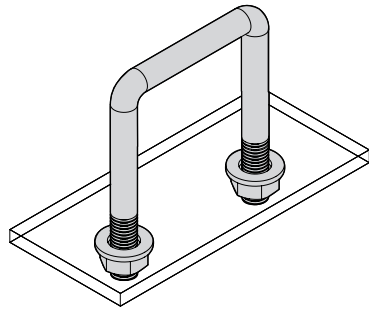
- **Light** and **medium** squared bolt p 74
- **Heavy** and **robust** squared bolt p 75



LIGHT AND MEDIUM SQUARED U-BOLT

Order Codes and Dimensions

Squared U-bolt
CQ



For material characteristics see page 78.

Light series
Carbon steel St430 zinc plated code CQL

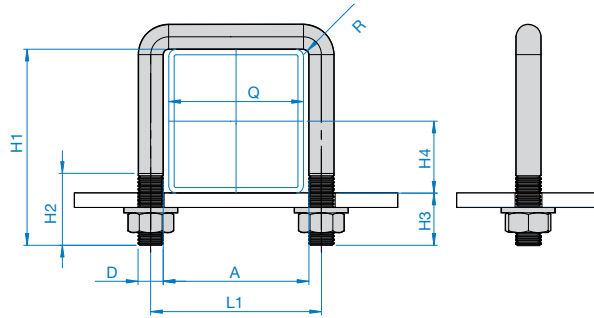
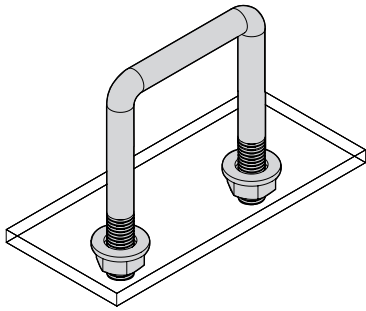
| Code PI.EFFE.CI. | O.D. of Pipe Q | On request nuts and washers | | | | | | | | |
|---------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|---|-----|
| | in mm | Material and surface finishing | A | L1 | H1 | H2 | H3 | H4 | R | D |
| CQL 03 | 30x30 | St430 Zinc plated | 31 | 39 | 50 | 25 | 20 | 15 | 4 | M8 |
| CQL 04 | 40x40 | St430 Zinc plated | 41 | 49 | 60 | | | 20 | | |
| CQL 05 | 50x50 | St430 Zinc plated | 51 | 59 | 70 | | | 25 | | |
| CQL 06 | 60x60 | St430 Zinc plated | 61 | 71 | 82 | 30 | 22 | 30 | 5 | M10 |
| CQL 07 | 70x70 | St430 Zinc plated | 71 | 81 | 92 | | | 35 | | |
| CQL 08 | 80x80 | St430 Zinc plated | 81 | 91 | 102 | | | 40 | | |
| CQL 09 | 90x90 | St430 Zinc plated | 91 | 101 | 112 | | | 45 | | |
| CQL 10 | 100x100 | St430 Zinc plated | 101 | 111 | 122 | | | 50 | | |

For material characteristics see page 78.

Medium series
Carbon steel St430 zinc plated code CQM

| Code PI.EFFE.CI. | O.D. of Pipe Q | On request nuts and washers | | | | | | | | |
|---------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|---|-----|
| | in mm | Material and surface finishing | A | L1 | H1 | H2 | H3 | H4 | R | D |
| CQM 03 | 30x30 | St430 Zinc plated | 31 | 41 | 52 | 30 | 22 | 15 | 5 | M10 |
| CQM 04 | 40x40 | St430 Zinc plated | 41 | 51 | 62 | | | 20 | | |
| CQM 05 | 50x50 | St430 Zinc plated | 51 | 61 | 72 | | | 25 | | |
| CQM 06 | 60x60 | St430 Zinc plated | 61 | 73 | 86 | 35 | 26 | 30 | 6 | M12 |
| CQM 07 | 70x70 | St430 Zinc plated | 71 | 83 | 96 | | | 35 | | |
| CQM 08 | 80x80 | St430 Zinc plated | 81 | 93 | 106 | | | 40 | | |
| CQM 09 | 90x90 | St430 Zinc plated | 91 | 103 | 116 | | | 45 | | |
| CQM 10 | 100x100 | St430 Zinc plated | 101 | 113 | 126 | | | 50 | | |

Squared U-bolt CQ



For material characteristics see page 78.

Heavy series
Carbon steel St430 zinc plated code CQP

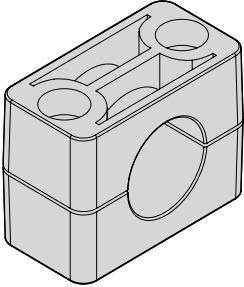
| Code PI.EFFE.CI. | O.D. of Pipe Q | On request nuts and washers | | | | | | | | |
|---------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|---|-----|
| | in mm | Material and surface finishing | A | L1 | H1 | H2 | H3 | H4 | R | D |
| CQP 03 | 30x30 | St430 Zinc plated | 31 | 43 | 56 | 35 | 26 | 15 | 6 | M12 |
| CQP 04 | 40x40 | St430 Zinc plated | 41 | 53 | 66 | | | 20 | | |
| CQP 05 | 50x50 | St430 Zinc plated | 51 | 63 | 76 | | | 25 | | |
| CQP 06 | 60x60 | St430 Zinc plated | 61 | 75 | 90 | 40 | 30 | 30 | 7 | M14 |
| CQP 07 | 70x70 | St430 Zinc plated | 71 | 85 | 100 | | | 35 | | |
| CQP 08 | 80x80 | St430 Zinc plated | 81 | 95 | 110 | | | 40 | | |
| CQP 09 | 90x90 | St430 Zinc plated | 91 | 105 | 120 | | | 45 | | |
| CQP 10 | 100x100 | St430 Zinc plated | 101 | 115 | 130 | | | 50 | | |

For material characteristics see page 78.

Robust series
Carbon steel St430 zinc plated code CQR

| Code PI.EFFE.CI. | O.D. of Pipe Q | On request nuts and washers | | | | | | | | |
|---------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|---|-----|
| | in mm | Material and surface finishing | A | L1 | H1 | H2 | H3 | H4 | R | D |
| CQR 06 | 60x60 | St430 Zinc plated | 61 | 77 | 94 | 50 | 34 | 30 | 8 | M16 |
| CQR 07 | 70x70 | St430 Zinc plated | 71 | 87 | 104 | | | 35 | | |
| CQR 08 | 80x80 | St430 Zinc plated | 81 | 97 | 114 | | | 40 | | |
| CQR 09 | 90x90 | St430 Zinc plated | 91 | 107 | 124 | | | 45 | | |
| CQR 10 | 100x100 | St430 Zinc plated | 101 | 117 | 134 | | | 50 | | |
| CQR 11 | 110x110 | St430 Zinc plated | 111 | 127 | 144 | | | 55 | | |
| CQR 12 | 120x120 | St430 Zinc plated | 121 | 137 | 154 | | | 60 | | |

MATERIAL Characteristics

| CLAMP BODY | | MATERIAL | | | |
|---|-------------|---------------------------|-------------------------|--------------------|--------------|
|  | | PP | PA | GM | AL |
| | | POLYPROPYLENE Copolymeric | POLYAMIDE | RUBBER Elastomer | ALUMINIUM |
| COLOURE | | BLUE | BLACK | BLACK | NATURAL |
| MECHANICAL CHARACTERISTICS | TEST METHOD | | | | |
| Tensile modulus | ISO 527 | Mpa 1.300 | Mpa 8.500 | -- | -- |
| Load in bending at break | ISO 178 | -- | Mpa 190 | -- | -- |
| Elongation at break | ISO 527 | 6% | 3% | 600% | 1% |
| Tensile strain at break | ISO 527 | Mpa 25 | Mpa 145 | Mpa 9 | Mpa 150 |
| Notched Izod impact strenght | ISO 180/A | KJ/m2 10 | KJ/m2 10 | -- | -- |
| Notched Charpy impact strenght | ISO 179 | J/cm2 1.30 | KJ/m2 10 | -- | -- |
| Shore hardness | ISO 868 | -- | -- | 80 A | -- |
| THERMAL CHARACTERISTICS | TEST METHOD | | | | |
| Flammability Rating | UL 94 | HB | V0 | UL94 HB | -- |
| Vicat (50°C/h 9.8 N) | ISO 306 | °C150 | °C254 | -- | -- |
| HDT (0,45 N/ mm2) | ISO 75 | °C92 | °C245 | -- | -- |
| HDT (1,82 N/ mm2) | ISO 75 | °C50 | °C242 | -- | -- |
| Recommended Min/Max temperature | IEC 216 | -30°C + 90°C | -40°C +140° C | -40°C + 90°C | up to 300° C |
| UV Resistance | -- | -- | -- | -- | -- |
| ELECTRICAL CHARACTERISTICS | TEST METHOD | | | | |
| Dielectric strenght 2mm | IEC 60243 | -- | KV/mm 20 | -- | -- |
| Comparative Tracking Index | IEC 60112 | -- | V 600 | -- | -- |
| Volume Resistivity | DIN 53482 | Ohm/m >10 ¹⁸ | Ohm/m 10* ¹⁵ | -- | -- |
| CHEMICAL CHARACTERISTICS | TEST METHOD | | | | |
| Weak acids - Alkaline solution | -- | Limited resistance | Good resistance | Good resistance | -- |
| Benzine - Mineral oils | -- | Good resistance | Good resistance | Limited resistance | -- |
| Alcohol - Other oils - Sea water | -- | Good resistance | Good resistance | Good resistance | -- |

MATERIAL COMPONENTS AND ACCESSORIES

STEELS

Plates: non-alloy steel for structural applications St360 (235JR) and St430 (275JR).

Accessories: in St360 (for high hexagon head bolts VA and bushing B), in Carbon Steel C20 (nut for fixing clamps to the rail) and in steel sheets for deep drawing DX 51D (standard series rail)

STAINLESS STEEL

Metal parts: in stainless steel 316L (X2CrNiMo17-12-2) 1.4404.

U-Bolts in stainless steel 304L with good corrosion resistance and stainless steel 316L (stainless marine) with excellent resistance to corrosion.

SURFACE FINISHINGS

Components and accessories: all our parts and metal accessories are treated with advanced surface treatments.

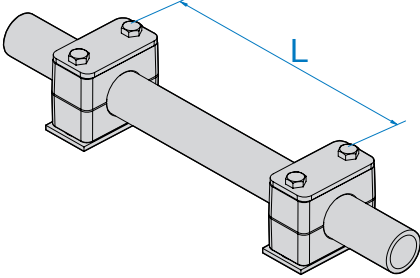
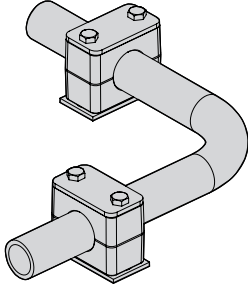
Sendzimir method: this process consists of immersing products in a bath of molten zinc (used to rail the Standard series) for zinc-plating protection;

Crapal: consists of a steel wire, coated with an alloy of 95% of zinc and 5% of aluminum, dull gray color and excellent corrosion resistance (used for U-bolts); **White Zinc plating Fe Zn c8 II:** used for all other metal products.

All protection surfaces are according to the RoHS directive.

TECHNICAL Appendix

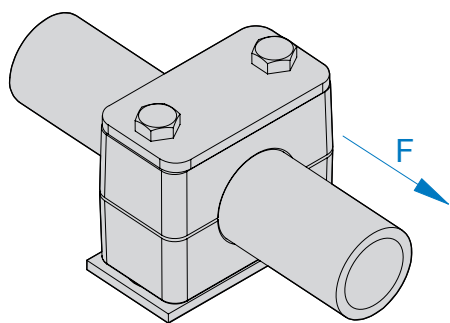
- Recommended distance between clamps _____ p 80
- Clamp installation in case of bend pipe _____ p 80
- Thread chart _____ p 80
- Property classes for bolts and screws _____ p 80
- Tightening torques and maximum loads in pipe direction _____ p 81

| RECOMMENDED DISTANCE BETWEEN CLAMPS | | | | CLAMP INSTALLATION IN CASE OF BEND PIPE | |
|--|----------------|----------------------------|----------------|--|--|
|  <p>The values of the distances of the clamps shown in the table are indicative values, reported to static loads.</p> | | | |  | |
| Pipe outside diameter (mm) | Distance L (m) | Pipe outside diameter (mm) | Distance L (m) | <p>Bend pipes should be fixed by clamps immediately before and after the bend.</p> <p>Moreover it is recommended to design these clamps as fixed point clamps.</p> <p>Joints is recommended for applications with the use of clamps before and after the junction.</p> | |
| 6,0 - 13,5 | 1,0 | 114,0 - 168,0 | 5,0 | | |
| 13,5 - 18 | 1,2 | 168,0 - 219,0 | 6,0 | | |
| 18 - 32 | 1,5 | 219,0 - 324,0 | 6,7 | | |
| 32 - 38 | 2,0 | 324,0 - 356,0 | 7,0 | | |
| 38 - 57,2 | 2,7 | 356,0 - 406,0 | 7,5 | | |
| 57,2 - 75 | 3,0 | 406,0 - 480,0 | 8,0 | | |
| 75 - 76,1 | 3,5 | 481,0 - 550,0 | 8,5 | | |
| 76,1 - 88,9 | 3,7 | 551,0 - 630,0 | 9,0 | | |
| 88,9 - 102,0 | 4,0 | 631,0 - 716,0 | 10,0 | | |
| 102,0 - 114,0 | 4,5 | 716,0 - 800,0 | 12,0 | | |

| THREAD CHART | | | | | | | | | |
|---|---------------|--------------|------------------|---------------|--------------|------------------|---------------|---------------|--|
| Conversion table and Metric thread / UNC thread | | | | | | | | | |
| STANDARD SERIES | | | HEAVY SERIES | | | TWIN SERIES | | | |
| Code PI.EFFE.CI. | Metric thread | UNC thread | Code PI.EFFE.CI. | Metric thread | UNC thread | Code PI.EFFE.CI. | Metric thread | UNC thread | |
| C1 | M6 | 1/4 - 20 UNC | CP1 | M10 | 3/8 - 16 UNC | CF1 | M6 | 1/4 - 20 UNC | |
| C2 | | | CP2 | | | CF2 | M8 | 5/16 - 18 UNC | |
| C3 | | | CP3 | | | CF3 | | | |
| C4 | | | CP4 | CF4 | | | | | |
| C5 | | | CP5 | CF5 | | | | | |
| C6 | | | CP6 | M20 | 3/4 - 10 UNC | | | | |
| C7 | | | CP7 | M24 | 7/8 - 9 UNC | | | | |
| C8 | | | CP8 | M30 | 11/8 - 7 UNC | | | | |
| C9 | | | CP9 | M30 | 11/4 - 7 UNC | | | | |
| | | | CP10 | | | | | | |

| PROPERTY CLASSES FOR BOLTS AND SCREWS | | | |
|---------------------------------------|-----------------|-----------------------|-------------|
| ACCESSORIES | MATERIAL | FINISHING | CLASS |
| Socket cap screw | Steel | Zinc plated/Untreated | 8.8 |
| | Stainless Steel | --- | A4-70 |
| Hexagon head bolt | Steel | Zinc plated/Untreated | 8.8 |
| | Stainless Steel | --- | A4-70 |
| Safety washer | Steel | Zinc plated/Untreated | 8 |
| | Stainless Steel | --- | A4-70 |
| U-bolt nut | Steel | Zinc plated | 8 |
| | Stainless Steel | --- | A4-70 A2-70 |
| Flanged nut for U-bolts | Steel | Zinc plated | 8 |
| | Stainless Steel | --- | --- |
| Washer for U-bolts | Steel | Zinc plated | 100 HV |
| | Stainless Steel | --- | A4-70 A2-70 |
| Nut bolt | Steel | Zinc plated | 8 |

TIGHTENING TORQUES AND MAXIMUM LOADS IN PIPE DIRECTION



All tightening torques and maximum loads in pipe direction regard clamps with upper plates and hexagon head bolts according to EN ISO 4014/4017.

The value of the load F is an average value of tests performed with steel tube Fe360.

If the stress of the clamp in an axial direction of the pipe, the pipe slides into the clamp.

Sliding starts when F value is reached.

STANDARD SERIES

| Code PI.EFFE.CI. | Hexagon head bolt (EN ISO 4014/4017) | Polypropylene | | Polyamide | | Aluminium | |
|---------------------|---|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | | Tightening torque (Nm) | Max load in pipe direction F (KN) | Tightening torque (Nm) | Max load in pipe direction F (KN) | Tightening torque (Nm) | Max load in pipe direction F (KN) |
| C1 | M6 | 8 | 0,7 | 10 | 0,7 | 12 | 3,6 |
| C2 | | 8 | 1,2 | 10 | 0,9 | 12 | 4,3 |
| C3 | | 8 | 1,5 | 10 | 1 | 12 | 4,4 |
| C4 | | 8 | 1,7 | 10 | 1,8 | 12 | 4,8 |
| C5 | | 8 | 1,8 | 10 | 1,9 | 12 | 5,2 |
| C6 | | 8 | 2 | 10 | 2,1 | 12 | 7,5 |
| C7 | | 8 | 2,2 | 10 | 2,8 | 12 | 9 |
| C8 | | 8 | 2,3 | 10 | 2,5 | --- | --- |
| C9 | | 8 | 2,4 | 10 | 2,5 | --- | --- |

HEAVY SERIES

| Code PI.EFFE.CI. | Hexagon head bolt (EN ISO 4014/4017) | Polypropylene | | Polyamide | | Aluminium | |
|---------------------|---|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | | Tightening torque (Nm) | Max load in pipe direction F (KN) | Tightening torque (Nm) | Max load in pipe direction F (KN) | Tightening torque (Nm) | Max load in pipe direction F (KN) |
| CP1 | M10 | 13 | 1,8 | 21 | 4,5 | 32 | 13 |
| CP2 | | 13 | 3 | 21 | 4,7 | 32 | 16 |
| CP3 | | 15 | 3,5 | 25 | 5,2 | 37 | 16,5 |
| CP4 | M12 | 30 | 8,5 | 40 | 9,5 | 55 | 30,5 |
| CP5 | M16 | 46 | 11,5 | 56 | 27 | 125 | 36,5 |
| CP6 | M20 | 80 | 15 | 155 | 25 | 225 | 62,5 |
| CP7 | M24 | 110 | 30 | 200 | 34 | 250 | 71,7 |
| CP8 | M30 | 190 | 41 | 360 | 50 | 500 | 86,5 |
| CP9 | | 210 | 125 | 380 | 130 | 500 | 190,5 |
| CP10 | | 270 | 168 | 450 | 180 | 600 | 244,5 |

TWIN SERIES

| Code PI.EFFE.CI. | Hexagon head bolt (EN ISO 4014/4017) | Polypropylene | | Polyamide | |
|---------------------|---|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | | Tightening torque (Nm) | Max load in pipe direction F (KN) | Tightening torque (Nm) | Max load in pipe direction F (KN) |
| CF1 | M6 | 6 | 1,1 | 6 | 1,1 |
| CF2 | M8 | 13 | 2,5 | 13 | 2,5 |
| CF3 | | 13 | 2,1 | 13 | 2,1 |
| CF4 | | 13 | 2,9 | 13 | 3,1 |
| CF5 | | 9 | 2,2 | 9 | 2,7 |

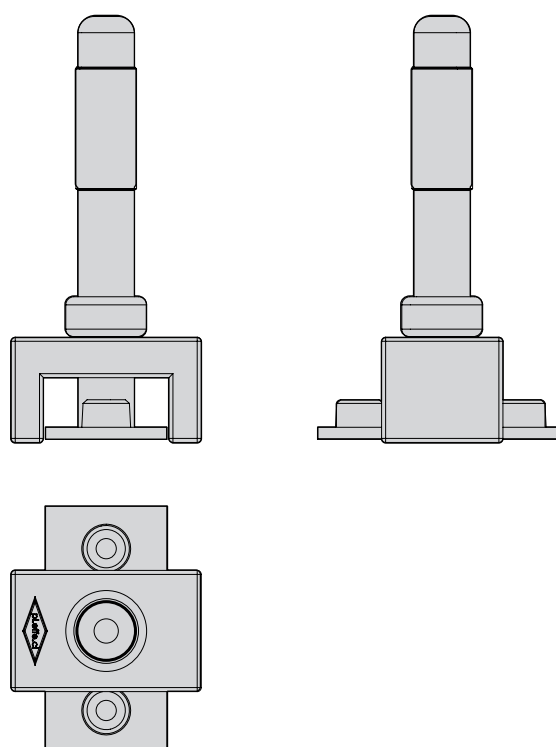
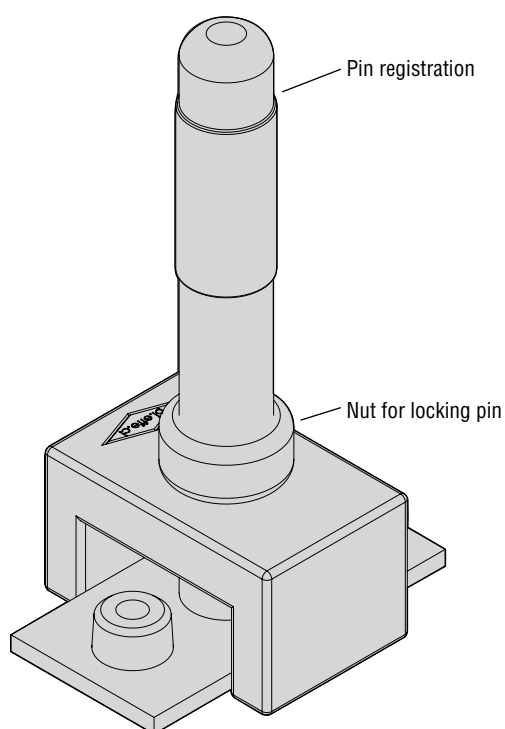
Tool for Welding of Plates

TOOL FOR WELDING OF PLATES

The tool can be used during the welding of the lower plates to facilitate the taking, thanks to a magnets placed into the pin registration.

It's available on request and can be used for Standard Series, TwinSeries, and Heavy Series for CP1, CP2 and CP3 only.

Note: Do not use with stainless steel plates.



The values contained in this catalogue have been collected most carefully,
but must be considered indicative only and not absolute.

The company refuse all responsibility pertaining to the products
with the exception of manufacturing defect.

We reserve the right to make supplements
or modifications without previous notice.

CA 34 D

Available January 2014



***a worldwide
presence***



PI.EFFE.CI. SRL

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