






| Gerade Verbinder | | | | | | | | | | | | | |
|---|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|---|--|
| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|  | 01 | 4,90 | 5,54 | 6,54 | 8,16 | 10,80 | 13,94 | 16,74 | 76,76 | 85,14 | 104,28 | - | |
|  | 02 | 16,02 | 16,22 | 16,48 | 16,74 | 25,04 | 26,86 | 29,82 | 174,92 | 200,14 | 226,90 | - | |
|  | 47 | 3,60 | 4,24 | 4,82 | 6,02 | 7,96 | 10,28 | 12,36 | 45,36 | 50,32 | 61,64 | - | |
|  | 55 | 4,38 | 5,20 | 6,20 | 7,80 | 10,56 | 13,50 | 16,42 | - | - | - | - | |

| Bogen | | | | | | | | | | | | | |
|---|----------|------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--|--|
| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|  | 03 | 8,98 | 10,06 | 12,18 | 15,18 | 23,40 | 36,94 | 50,10 | 135,66 | 177,44 | 223,86 | | |
|  | 05 | 9,06 | 9,74 | 11,64 | 14,80 | 22,28 | 34,00 | 45,16 | 128,50 | 163,94 | 215,18 | | |
|  | 04 | 8,44 | 9,58 | 12,12 | 14,94 | 23,40 | 36,44 | 48,46 | 120,86 | 159,10 | 215,46 | | |
|  | 06 | 9,34 | 10,28 | 12,22 | 14,92 | 20,70 | 32,70 | 41,64 | 118,82 | 150,94 | 202,18 | | |

| Übergangsbogen | | | | | | | | | | | | | |
|---|----------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--|--|--|
| 316L | Fig. Nr. | 15x3/8 | 15x1/2 | 18x1/2 | 18x3/4 | 22x3/4 | 28x1 | 35x1¼ | 42x1½ | 54x2 | | | |
|  | 34 | 21,84 | 21,84 | 25,18 | - | 26,74 | 34,50 | 46,26 | - | - | | | |
|  | 39 | 22,20 | 22,20 | 23,08 | 25,34 | 28,86 | 34,08 | 43,40 | 67,40 | 87,94 | | | |
|  | 33 | - | 22,20 | 23,08 | 25,34 | 28,86 | 34,08 | - | - | - | | | |
|  | 35 | - | 21,84 | 25,18 | 26,24 | 26,74 | 34,50 | 61,04 | 81,12 | 101,20 | | | |

| Winkel | | | | | | | | | | | | | |
|---|----------|--------|--------|--------|--------|-------|-------|-------|-------|---|---|---|--|
| 316L | Fig. Nr. | 15x1/2 | 18x1/2 | 18x3/4 | 22x3/4 | 28x1 | 35x1¼ | 42x1½ | 54x2 | | | | |
|  | 07 | 17,14 | 18,32 | 21,70 | 22,60 | 30,96 | 52,72 | - | - | | | | |
|  | 08 | 15,88 | 16,78 | 20,56 | 21,10 | 27,60 | 38,70 | 54,56 | 66,80 | | | | |
|  | 09 | 18,44 | 19,12 | - | 23,80 | - | - | - | - | | | | |
|  | 76 | 39,22 | - | - | - | - | - | - | - | - | - | - | |



Durchgangsverschraubung

| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | | | | | |
|--|----------|-------|-------|-------|--------|--------|--------|--------|--|--|--|--|--|
|  | 46 | 56,98 | 65,80 | 74,06 | 109,84 | 119,62 | 155,32 | 242,06 | | | | | |


Übergangsstücke & Verschraubungen (ø 15 - ø 28)

| 316L | Fig. Nr. | 15x1/2 | 15x3/4 | 18x1/2 | 18x3/4 | 22x1/2 | 22x3/4 | 22x1 | 28x3/4 | 28x1 | 28x1¼ | | |
|---|----------|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|--|--|
|  | 17 | 13,44 | 13,44 | 14,28 | 15,42 | 17,86 | 18,22 | 21,44 | 24,92 | 25,50 | 28,64 | | |
|  | 18 | 12,76 | 15,32 | 13,44 | 15,08 | 16,36 | 17,06 | 17,96 | 21,20 | 22,72 | 24,32 | | |
|  | 26 | 13,60 | - | 14,24 | 15,26 | 17,60 | 20,44 | - | 25,24 | 25,24 | - | | |
|  | 27 | 12,82 | - | 13,60 | 14,74 | 17,08 | 19,16 | - | 24,48 | 24,48 | - | | |
|  | 41 | 39,24 | 41,90 | 39,54 | 42,30 | - | 59,32 | 50,34 | - | 70,08 | 80,46 | | |
|  | 42 | 38,38 | 40,06 | 38,64 | 42,24 | - | 59,36 | 50,34 | - | 70,14 | 76,12 | | |
|  | 45 | 25,12 | 27,58 | 26,70 | 27,84 | - | 33,92 | 44,48 | - | 47,60 | 47,26 | | |



Übergangsstücke & Verschraubungen (ø 35 - ø 108)

| 316L | Fig. Nr. | 35x1 | 35x1¼ | 35x1½ | 42x1¼ | 42x1½ | 42x2 | 54x1½ | 54x2 | 76x2½ | 88x3 | 108x4 | |
|---|----------|-------|-------|-------|-------|--------|--------|-------|--------|--------|--------|--------|--|
|  | 17 | 28,30 | 29,34 | 38,70 | 40,56 | 41,96 | - | 60,58 | 54,30 | 142,94 | 251,02 | - | |
|  | 18 | 24,48 | 29,38 | 36,36 | 33,92 | 41,48 | - | 42,66 | 47,96 | 144,76 | 217,64 | 339,28 | |
|  | 26 | - | 47,96 | - | - | 64,30 | - | - | 66,56 | - | - | - | |
|  | 27 | - | 47,96 | - | - | 64,30 | - | - | 66,56 | - | - | - | |
|  | 41 | - | 86,12 | - | - | 136,68 | - | - | 186,92 | - | - | - | |
|  | 42 | - | 86,12 | - | - | 136,62 | - | - | 186,92 | - | - | - | |
|  | 45 | - | 63,18 | 67,10 | - | 85,54 | 130,18 | - | 143,64 | - | - | - | |


T-Stück

| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|---|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--|--|
|  | 16 | 14,66 | 16,36 | 18,04 | 21,70 | 27,86 | 37,78 | 46,20 | 190,72 | 214,68 | 264,16 | | |

T-Stück mit Gewinde (15x1/2 - 35x1¼)

| 316L | Fig. Nr. | 15x1/2 | 18x1/2 | 18x3/4 | 22x1/2 | 22x3/4 | 28x1/2 | 28x3/4 | 28x1 | 35x1/2 | 35x3/4 | 35x1 | 35x1¼ |
|---|----------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|-------|-------|
|  | 12 | 15,90 | 16,10 | 17,54 | 19,60 | 21,24 | 22,70 | 24,36 | 26,86 | 25,18 | 29,78 | 31,46 | 31,42 |
|  | 36 | 16,04 | 16,26 | - | - | 21,44 | - | - | 27,10 | - | - | - | 31,70 |



T-Stück mit Gewinde (42x3/4 - 108x2)

| 316L | Fig. Nr. | 42x3/4 | 42x1 | 42x1½ | 54x3/4 | 54x1 | 54x2 | 76x3/4 | 76x2 | 88x3/4 | 88x2 | 108x3/4 | 108x2 |
|---|----------|--------|-------|-------|--------|-------|-------|--------|--------|--------|--------|---------|--------|
|  | 12 | 33,68 | 35,76 | 42,56 | 42,00 | 42,36 | 72,24 | 178,12 | 207,30 | 202,64 | 231,82 | 239,38 | 257,80 |



Pass-/ Sprungbogen

| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|---|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--|--|
|  | 10 | 10,16 | 10,42 | 10,82 | 11,46 | 23,52 | 29,08 | 36,38 | 126,14 | 159,70 | 180,98 | | |
|  | 42 | 14,94 | 15,30 | 15,90 | 16,86 | 34,60 | 42,76 | 53,50 | 132,76 | 171,70 | 182,78 | | |
|  | 20 | 12,28 | 14,22 | 16,18 | 17,80 | - | - | - | - | - | - | | |
|  | 22 | 49,16 | 66,56 | 69,58 | 87,24 | - | - | - | - | - | - | | |
|  | 23 | 41,64 | 61,92 | 66,08 | 84,68 | - | - | - | - | - | - | | |



Red.-Stücke (Absatznippel) & T-Stücke, red. (18x15 - 35x28)

| 316L | Fig. Nr. | 18x15 | 22x15 | 22x18 | 28x15 | 28x18 | 28x22 | 35x15 | 35x18 | 35x22 | 35x28 | | |
|---|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
|  | 14 | 6,70 | 7,44 | 7,52 | 9,50 | 10,02 | 10,24 | 26,34 | 20,18 | 12,22 | 13,70 | | |
|  | 15 | 14,74 | 15,84 | 16,32 | 19,08 | 19,68 | 20,54 | 23,28 | 23,88 | 24,34 | 25,32 | | |




Red.-Stücke (Absatznippel) & T-Stücke, red. (42x15 - 54x42)

| 316L | Fig. Nr. | 42x15 | 42x18 | 42x22 | 42x28 | 42x35 | 54x15 | 54x18 | 54x22 | 54x28 | 54x35 | 54x42 | |
|---|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|  | 14 | 26,16 | 26,04 | 21,22 | 21,98 | 16,44 | 42,42 | 40,42 | 33,40 | 27,92 | 26,12 | 20,58 | |
|  | 15 | 31,64 | 31,64 | 34,20 | 35,52 | 36,82 | 41,26 | 41,26 | 41,26 | 42,20 | 44,14 | 46,06 | |



Red.-Stücke (Absatznippel) & T-Stücke, red. (76,1x22 - 108x88,9)

| 316L | Fig. Nr. | 76x22 | 76x28 | 76x35 | 76x42 | 76x54 | 88x42 | 88x54 | 88x76 | 108x54 | 108x76 | 108x88 | |
|---|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|  | 14 | 120,80 | 116,20 | 112,02 | 73,18 | 73,68 | 90,76 | 87,08 | 118,82 | 101,48 | 131,10 | 135,48 | |
|  | 15 | 161,90 | 164,44 | 169,30 | 172,10 | 176,94 | 202,44 | 207,80 | 220,30 | 263,88 | 297,28 | 304,40 | |


Flansche

| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|---|----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--|--|
|  | 52 | 81,38 | 84,90 | 90,62 | 106,60 | 172,34 | 202,78 | 210,56 | 297,88 | 369,56 | 530,38 | | |
|  | 19 | 55,58 | 58,28 | 62,24 | 73,22 | 118,32 | 139,26 | 148,94 | 201,58 | 250,06 | 358,90 | | |
|  | 28 | - | - | - | - | - | - | 80,10 | 130,64 | 157,86 | 245,10 | | |



Kappen

| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|---|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
|  | 21 | 10,60 | 11,88 | 13,20 | 15,38 | 18,50 | 24,06 | 28,96 | 58,12 | 70,12 | 76,76 | | |
|  | 54 | 9,34 | 10,44 | 11,60 | 13,52 | 16,26 | 21,12 | 25,44 | 51,80 | 62,48 | 68,40 | | |


Kugelhähne

| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|---|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
|  | 31 | 100,88 | 108,46 | 149,44 | 164,22 | 244,52 | 309,56 | 441,68 | 1132,- | 1543,- | 2179,- | | |

Durchführungen

| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|---|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
|  | 53 | 94,06 | 111,18 | 128,28 | 158,18 | 179,60 | 206,00 | 230,88 | 451,12 | 615,72 | 780,30 | | |
|  | 65 | 119,78 | 117,52 | 136,24 | 168,42 | 191,76 | 221,90 | 247,46 | 502,80 | 672,36 | 848,26 | | |

Kompensator

| 316L | Fig. Nr. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|---|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
|  | 71 | 250,64 | 251,54 | 273,88 | 371,52 | 375,14 | 421,46 | 509,82 | 864,32 | 910,30 | 1219,- | | |

| O-Ringe | | | | | | | | | | | | | |
|--|---------|------|------|------|------|------|------|------|-------|-------|-------|--|--|
| Farbe | Mat. | 15,0 | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88,9 | 108,0 | | |
|  | EPDM | 0,24 | 0,28 | 0,54 | 0,74 | 0,78 | 0,82 | 0,88 | 5,66 | 6,90 | 8,04 | | |
|  | FKM | 0,64 | 0,66 | 0,88 | 1,44 | 1,60 | 2,22 | 2,94 | 10,74 | 17,48 | 32,02 | | |
|  | "Dampf" | 0,68 | 0,70 | 0,92 | 1,52 | 1,68 | 2,32 | 3,10 | 11,26 | 18,36 | 33,62 | | |