

ACCESSORIES ZUBEHÖR



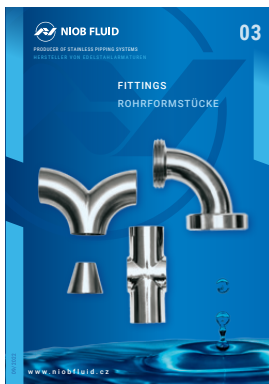
02 PIPE UNIONS
 ROHRVERBINDUNGEN



06 DOORS AND MANWAYS
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03 FITTINGS
 ROHRFORMSTÜCKE



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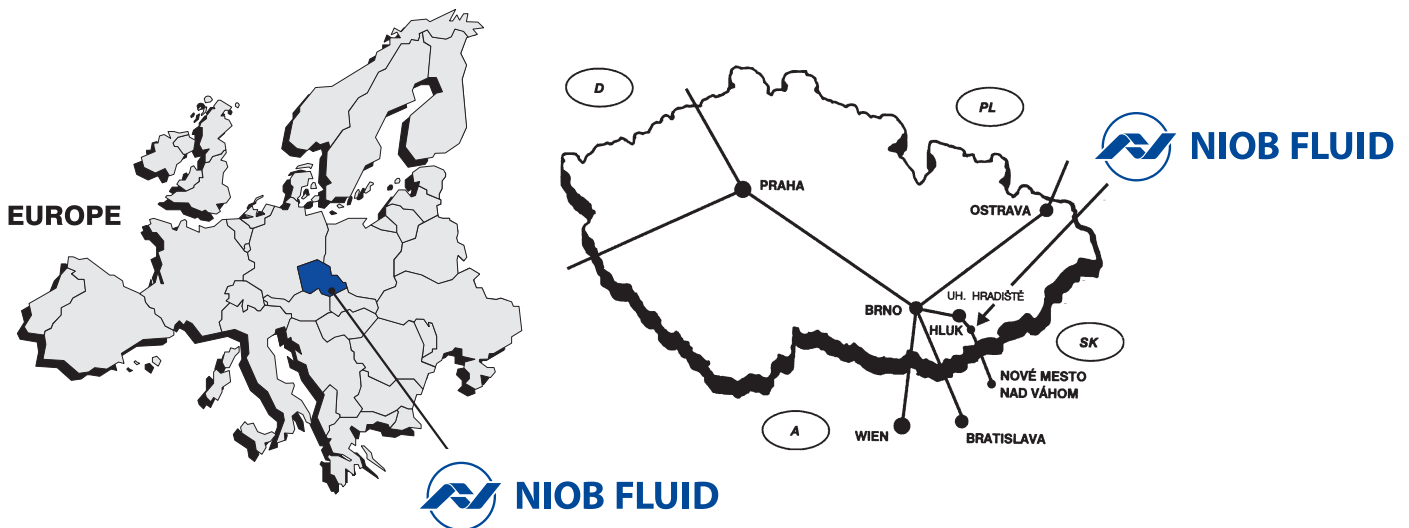


09 ASEPTIC PROGRAM
 ASEPTISCHES PROGRAMM

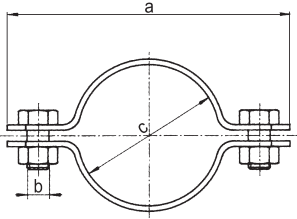


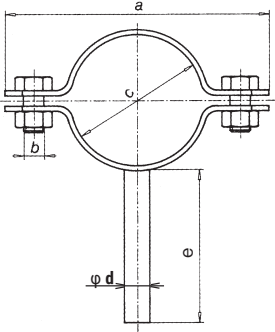
The company NIOB FLUID s. r. o. is a manufacturer focused on the production of fasteners, shut-off and control valves of stainless steels. These valves are especially designed for the transport of liquids in the food, chemical and the pharmaceutical industry. It is simultaneously also the supplier of pipe fittings and other parts needed for piping systems and components for tanks such as the lid, manwaydoor, level indicator and other components.

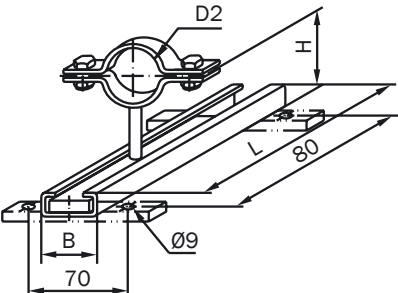
Die Gesellschaft NIOB FLUID s.r.o. ist ein Hersteller, der auf die Produktion von Verbindungs-, Absperr- und Reguliervorgangarmaturen aus Edelstahl orientiert ist. Diese Armaturen sind vor allem für den Transport von Flüssigkeiten in der Lebensmittel- und Chemieindustrie und in der Pharmazie bestimmt. Die Gesellschaft ist gleichzeitig auch Lieferant von Rohrverbindungsstücken und weiteren Teilen, die für die Rohrleitungen erforderlich sind, und von Behälterteilen wie Hauben, Luken, Standgläser und weitere Komponenten.

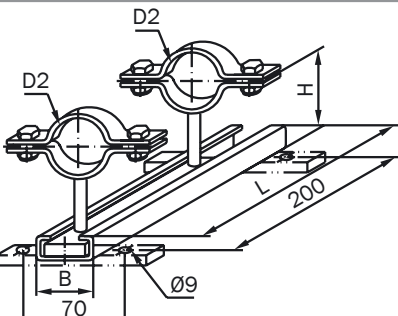


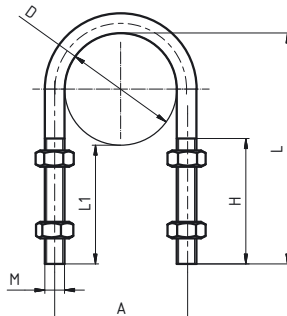
NIOB FLUID s. r. o.
Ostrožská 1003, 687 25 Hluk, Czech Republic
Phone: +420 572 419 822 – 8, Fax: +420 572 419 868
E-mail: marketing@niobfluid.cz, www.niobfluid.cz

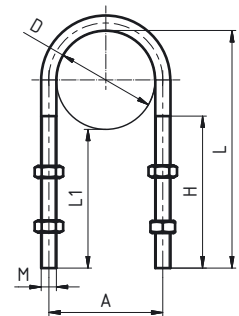
| Pipe clamp Rohrschelle ohne Schaft | 70210 | Dimensions • Baumaße | | | | | | | | | | |
|---|-------|----------------------|-----|----|-----|---|---|---|---|---|--------|----|
| | | DN | A | B | C | D | E | F | R | L | Rd x s | kg |
|  | | 10 | 46 | M6 | 13 | | | | | | | |
| | | 15 | 50 | M6 | 19 | | | | | | | |
| | | 20 | 55 | M6 | 23 | | | | | | | |
| | | 25 | 73 | M6 | 29 | | | | | | | |
| | | 32 | 70 | M6 | 35 | | | | | | | |
| | | 40 | 84 | M8 | 41 | | | | | | | |
| | | 50 | 97 | M8 | 53 | | | | | | | |
| | | 65 | 120 | M8 | 70 | | | | | | | |
| | | 80 | 136 | M8 | 85 | | | | | | | |
| | | 100 | 181 | M8 | 104 | | | | | | | |
| | | 125 | 202 | M8 | 129 | | | | | | | |
| | | 150 | 231 | M8 | 154 | | | | | | | |

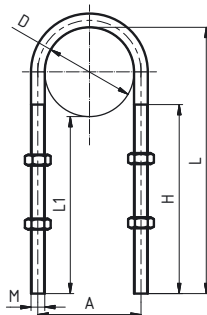
| Pipe clamp Rohrschelle mit Schaft | 70220 | Dimensions • Baumaße | | | | | | | | | | |
|--|-------|----------------------|-----|----|-----|----|----|---|---|---|--------|----|
| | | DN | A | B | C | D | E | F | R | L | Rd x s | kg |
|  | | 10 | 46 | M6 | 13 | 6 | 60 | | | | | |
| | | 15 | 50 | M6 | 19 | 8 | 60 | | | | | |
| | | 20 | 55 | M6 | 23 | 8 | 60 | | | | | |
| | | 25 | 73 | M6 | 29 | 8 | 60 | | | | | |
| | | 32 | 70 | M6 | 35 | 10 | 60 | | | | | |
| | | 40 | 84 | M8 | 41 | 10 | 60 | | | | | |
| | | 50 | 97 | M8 | 53 | 12 | 60 | | | | | |
| | | 65 | 120 | M8 | 70 | 15 | 60 | | | | | |
| | | 80 | 136 | M8 | 85 | 15 | 60 | | | | | |
| | | 100 | 181 | M8 | 104 | 15 | 60 | | | | | |
| | | 125 | 202 | M8 | 129 | 18 | 60 | | | | | |
| | | 150 | 231 | M8 | 154 | 18 | 60 | | | | | |

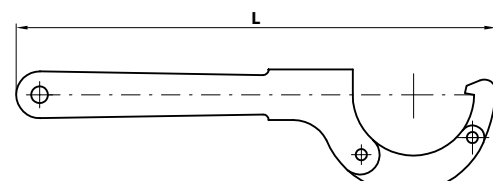
| Pipe clamp - sliding - simple Gleitschellensystem - eine Schelle | 70261 | Dimensions • Baumaße | | | | | | | | | | |
|---|-------|----------------------|-----|-------|----|-----|---------------|---|---|---|--------|------|
| | | DN | D2 | H | B | L | korekce délky | F | R | L | Rd x s | kg |
|  | | 10 | 13 | 71 | 30 | 120 | 50 | | | | | 0,24 |
| | | 15 | 20 | 74,5 | 30 | 120 | 50 | | | | | 0,27 |
| | | 20 | 25 | 77 | 30 | 120 | 50 | | | | | 0,28 |
| | | 25 | 30 | 79,5 | 30 | 120 | 50 | | | | | 0,30 |
| | | 32 | 36 | 82,5 | 30 | 120 | 50 | | | | | 0,31 |
| | | 40 | 42 | 85,5 | 30 | 120 | 50 | | | | | 0,32 |
| | | 50 | 55 | 92 | 30 | 120 | 50 | | | | | 0,33 |
| | | 65 | 72 | 100,5 | 30 | 120 | 50 | | | | | 0,36 |
| | | 80 | 86 | 107,5 | 30 | 120 | 50 | | | | | 0,47 |
| | | 100 | 105 | 117 | 30 | 120 | 50 | | | | | 0,52 |
| | | 125 | 130 | 129,5 | 30 | 120 | 50 | | | | | |
| | | 150 | 156 | 142,5 | 30 | 120 | 50 | | | | | |

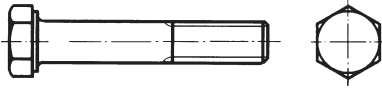
| Pipe clamp - sliding - double Gleitschellensystem-zwei Schellen | 70262 | Dimensions • Baumaße | | | | | | | | | | |
|---|-------|----------------------|-----|-------|----|-----|---------------|---|---|---|--------|------|
| | | DN | D2 | H | B | L | korekce délky | F | R | L | Rd x s | kg |
|  | | 10 | 13 | 71 | 30 | 300 | 100 | | | | | 0,28 |
| | | 15 | 20 | 74,5 | 30 | 300 | 100 | | | | | 0,34 |
| | | 20 | 25 | 77 | 30 | 300 | 100 | | | | | 0,36 |
| | | 25 | 30 | 79,5 | 30 | 300 | 100 | | | | | 0,40 |
| | | 32 | 36 | 82,5 | 30 | 300 | 100 | | | | | 0,42 |
| | | 40 | 42 | 85,5 | 30 | 300 | 100 | | | | | 0,44 |
| | | 50 | 55 | 92 | 30 | 300 | 100 | | | | | 0,46 |
| | | 65 | 72 | 100,5 | 30 | 300 | 100 | | | | | 0,52 |
| | | 80 | 86 | 107,5 | 30 | 300 | 100 | | | | | 0,74 |
| | | 100 | 105 | 117 | 30 | 300 | 100 | | | | | 0,84 |
| | | 125 | 130 | 129,5 | 30 | 300 | 100 | | | | | |
| | | 150 | 156 | 142,5 | 30 | 300 | 100 | | | | | |

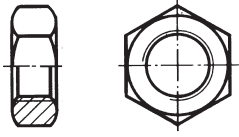
| Pipe support, short Rohrspannbügel | 70300 | Dimensions • Baumaße | | | | | | | | | | |
|---|-------|----------------------|---|---|-----|-----|-----|-----|-----|-----|--------|----|
| | | DN | A | B | C | D | H | L | L1 | M | Rd x s | kg |
|  | 10 | 19 | | | | 12 | 35 | 47 | 35 | M6 | | |
| | 15 | 24 | | | | 18 | 40 | 53 | 35 | M6 | | |
| | 20 | 28 | | | | 22 | 45 | 57 | 35 | M6 | | |
| | 25 | 34 | | | | 28 | 50 | 63 | 35 | M6 | | |
| | 32 | 40 | | | | 34 | 50 | 69 | 35 | M6 | | |
| | 40 | 48 | | | | 40 | 50 | 75 | 35 | M8 | | |
| | 50 | 60 | | | | 52 | 50 | 87 | 35 | M8 | | |
| | 65 | 78 | | | | 70 | 50 | 105 | 35 | M8 | | |
| | 80 | 95 | | | | 85 | 50 | 120 | 35 | M10 | | |
| | 100 | 114 | | | | 104 | 50 | 139 | 35 | M10 | | |
| | 125 | 139 | | | | 129 | 50 | 164 | 35 | M10 | | |
| | 150 | 164 | | | | 154 | 50 | 189 | 35 | M10 | | |
| 200 | 214 | | | | 204 | 50 | 239 | 35 | M10 | | | |

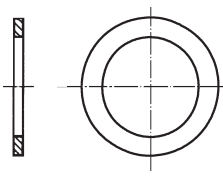
| Pipe support, medium Rohrspannbügel | 70310 | Dimensions • Baumaße | | | | | | | | | | |
|--|-------|----------------------|---|---|-----|-----|-----|-----|-----|-----|--------|----|
| | | DN | A | B | C | D | H | L | L1 | M | Rd x s | kg |
|  | 10 | 18 | | | | 12 | 65 | 77 | 65 | M6 | | |
| | 15 | 24 | | | | 18 | 70 | 83 | 65 | M6 | | |
| | 20 | 28 | | | | 22 | 75 | 87 | 65 | M6 | | |
| | 25 | 34 | | | | 28 | 80 | 93 | 65 | M6 | | |
| | 32 | 40 | | | | 34 | 80 | 99 | 65 | M6 | | |
| | 40 | 48 | | | | 40 | 80 | 105 | 65 | M8 | | |
| | 50 | 60 | | | | 52 | 80 | 117 | 65 | M8 | | |
| | 65 | 78 | | | | 70 | 80 | 135 | 65 | M8 | | |
| | 80 | 95 | | | | 85 | 80 | 150 | 65 | M10 | | |
| | 100 | 114 | | | | 104 | 80 | 169 | 65 | M10 | | |
| | 125 | 139 | | | | 129 | 80 | 194 | 65 | M10 | | |
| | 150 | 164 | | | | 154 | 80 | 219 | 65 | M10 | | |
| 200 | 214 | | | | 204 | 80 | 269 | 65 | M10 | | | |

| Pipe support, long Rohrspannbügel | 70320 | Dimensions • Baumaße | | | | | | | | | | |
|---|-------|----------------------|---|---|-----|-----|-----|-----|-----|-----|--------|----|
| | | DN | A | B | C | D | H | L | L1 | M | Rd x s | kg |
|  | 10 | 18 | | | | 12 | 95 | 107 | 95 | M6 | | |
| | 15 | 24 | | | | 18 | 100 | 113 | 95 | M6 | | |
| | 20 | 28 | | | | 22 | 105 | 117 | 95 | M6 | | |
| | 25 | 34 | | | | 28 | 110 | 123 | 95 | M6 | | |
| | 32 | 40 | | | | 34 | 110 | 129 | 95 | M6 | | |
| | 40 | 48 | | | | 40 | 110 | 135 | 95 | M8 | | |
| | 50 | 60 | | | | 52 | 110 | 147 | 95 | M8 | | |
| | 65 | 78 | | | | 70 | 110 | 165 | 95 | M8 | | |
| | 80 | 95 | | | | 85 | 110 | 180 | 95 | M10 | | |
| | 100 | 114 | | | | 104 | 110 | 199 | 95 | M10 | | |
| | 125 | 139 | | | | 129 | 110 | 224 | 95 | M10 | | |
| | 150 | 164 | | | | 154 | 110 | 249 | 95 | M10 | | |
| 200 | 214 | | | | 204 | 110 | 299 | 95 | M10 | | | |

| Key Hakenschlüssel | 70500 | Dimensions • Baumaße | | | | | | | | | |
|---|----------|----------------------|---|---|---|---|---|---|-----|--------|----|
| | | DN | A | B | C | E | E | F | L | Rd x s | kg |
|  | 25 - 65 | | | | | | | | 270 | | |
| | 65 - 150 | | | | | | | | 450 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | |


| Bolt - DIN 931 Schraube hexagonal - DIN 931 | 71060 | Dimensions • Baumaße | | | | | | | | | | |
|---|--------------|-----------------------------|---|---|---|---|---|---|---|--------|----|--|
| | DN | A | B | C | D | E | F | R | L | Rd x s | kg | |
|  | | M4 | | | | | | | | | | |
| | | M5 | | | | | | | | | | |
| | | M6 | | | | | | | | | | |
| | | M8 | | | | | | | | | | |
| | | M10 | | | | | | | | | | |
| | | M12 | | | | | | | | | | |
| | | M14 | | | | | | | | | | |
| | | M16 | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

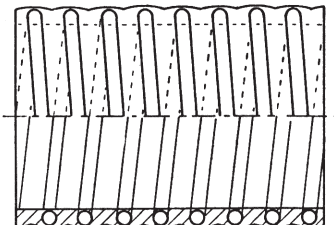
| Nut - DIN 934 Mutter - DIN 934 | 71070 | Dimensions • Baumaße | | | | | | | | | | |
|--|--------------|-----------------------------|---|---|---|---|---|---|---|--------|----|--|
| | DN | A | B | C | D | E | F | R | L | Rd x s | kg | |
|  | | M4 | | | | | | | | | | |
| | | M5 | | | | | | | | | | |
| | | M6 | | | | | | | | | | |
| | | M8 | | | | | | | | | | |
| | | M10 | | | | | | | | | | |
| | | M12 | | | | | | | | | | |
| | | M14 | | | | | | | | | | |
| | | M16 | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Washer Scheibe | 71090 | Dimensions • Baumaße | | | | | | | | | | |
|---|--------------|-----------------------------|---|---|---|---|---|---|---|--------|----|--|
| | DN | A | B | C | D | E | F | R | L | Rd x s | kg | |
|  | | M4 | | | | | | | | | | |
| | | M5 | | | | | | | | | | |
| | | M6 | | | | | | | | | | |
| | | M8 | | | | | | | | | | |
| | | M10 | | | | | | | | | | |
| | | M12 | | | | | | | | | | |
| | | M14 | | | | | | | | | | |
| | | M16 | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Welding wire Sweissdrath | 73010 | Dimensions • Baumaße | | | | | | | | | | |
|---|--------------|-----------------------------|---|---|---|---|---|---|---|--------|----|--|
| | DN | A | B | C | D | E | F | R | L | Rd x s | kg | |
| <p style="font-size: 1.2em; margin: 0;">Ø 1 - 4 mm</p> <p style="font-size: 1.2em; margin: 0;">length 1 m</p> | | 1,0 | | | | | | | | | | |
| | | 1,2 | | | | | | | | | | |
| | | 1,6 | | | | | | | | | | |
| | | 2,0 | | | | | | | | | | |
| | | 2,4 | | | | | | | | | | |
| | | 3,2 | | | | | | | | | | |
| | | 4,0 | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|---|--------------|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|---------------|-----------|
| Electrode (welding) Elektroden | 73050 | Dimensions • Baumaße | | | | | | | | | | |
| | | DN | A | B | C | E | E | F | R | L | Rd x s | kg |
| Ø 1,6 - 5 mm length 250 - 450 mm | | 1,6 | | | | | | | | | | |
| | | 2,0 | | | | | | | | | | |
| | | 2,5 | | | | | | | | | | |
| | | 3,25 | | | | | | | | | | |
| | | 4,0 | | | | | | | | | | |
| | | 5,0 | | | | | | | | | | |
| | | | | | | | | | | | | |

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|---|--------------|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|---------------|-----------|----|
| Pickling paste for non-corrosive steel Beizpaste | 75010 | Dimensions • Baumaße | | | | | | | | | | | |
| | | DN | A | B | C | D | E | F | R | L | Rd x s | kg | |
|  2l mořicí pasta | | | | | | | | | | | | 2 | |
| | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | 10 |
| | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | | | 14 |
| | | | | | | | | | | | | | 16 |
| | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | | | 20 |

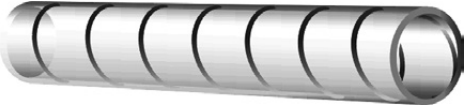
| | | | | | | | | | | | | |
|---|--------------|-----------------------------|----------------|-----------------------|-----------------------------|----------------------|-------------------|--|--|--|--|-----------|
| Special flexible hose for wine Spezial flexible Schlauch für wine | 76060 | Dimensions • Baumaße | | | | | | | | | | |
| | | DN | ØD [mm] | Pressure [bar] | Under-pressure [bar] | Weight [kg/m] | Length [m] | | | | | kg |
|  | | 25 | 32,0 | 8 | 0,9 | 0,40 | 50 | | | | | |
| | | 30 | 38,0 | 8 | 0,9 | 0,50 | 50 | | | | | |
| | | 32 | 40,0 | 8 | 0,9 | 0,52 | 50 | | | | | |
| | | 35 | 43,2 | 8 | 0,9 | 0,60 | 50 | | | | | |
| | | 38 | 47,0 | 8 | 0,9 | 0,73 | 50 | | | | | |
| | | 40 | 49,0 | 8 | 0,9 | 0,75 | 50 | | | | | |
| | | 45 | 54,0 | 8 | 0,9 | 0,90 | 50 | | | | | |
| | | 50 | 59,6 | 8 | 0,9 | 1,10 | 50 | | | | | |
| | | 60 | 70,0 | 7 | 0,9 | 1,45 | 50 | | | | | |
| | | 63 | 73,6 | 7 | 0,9 | 1,68 | 50 | | | | | |
| | | 70 | 82,4 | 6 | 0,9 | 1,80 | 50 | | | | | |
| | | 75 | 88,6 | 6 | 0,9 | 1,90 | 50 | | | | | |
| 80 | 94,0 | 5 | 0,9 | 2,20 | 50 | | | | | | | |
| 90 | 105,0 | 5 | 0,9 | 2,56 | 30 | | | | | | | |
| 100 | 116,0 | 4 | 0,9 | 3,30 | 30 | | | | | | | |

CHARAKTERISTIC:

Flexible hose. Temperature range: -5°C +60°C

Applications: suction and discharge of food stuffs, wine, beer.

Rigid PVC spiral. Smooth inside.

| Suction and pressure hose for liquids in food industry Druck-und Saug-Schläuche für die Lebensmittelindustrie | 76070 | Pressure | Under- pressure | Weight | Length | ØD | Dimensions • Baumaße | | | | | | |
|--|-------|----------|--------------------|--------|--------|-----|----------------------|--|--|--|--|----|--|
| | | DN | [bar] | [bar] | [kg/m] | [m] | [mm] | | | | | kg | |
|  | | 10 | 7 | 0,85 | 0,16 | 60 | 16 | | | | | | |
| | | 12 | 7 | 0,85 | 0,18 | 60 | 18 | | | | | | |
| | | 14 | 6 | 0,85 | 0,20 | 60 | 20 | | | | | | |
| | | 16 | 6 | 0,85 | 0,24 | 60 | 22 | | | | | | |
| | | 18 | 6 | 0,85 | 0,30 | 60 | 24 | | | | | | |
| | | 20 | 5 | 0,85 | 0,35 | 60 | 27 | | | | | | |
| | | 22 | 5 | 0,85 | 0,38 | 60 | 29 | | | | | | |
| | | 25 | 5 | 0,85 | 0,51 | 60 | 33 | | | | | | |
| | | 32 | 4 | 0,85 | 0,65 | 60 | 40 | | | | | | |
| | | 35 | 4 | 0,85 | 0,75 | 60 | 44 | | | | | | |
| | | 40 | 3 | 0,80 | 0,87 | 30 | 50 | | | | | | |
| | | 45 | 3 | 0,80 | 1,13 | 30 | 55 | | | | | | |
| | | 50 | 3 | 0,80 | 1,20 | 30 | 60 | | | | | | |
| | | 60 | 3 | 0,80 | 1,80 | 30 | 72 | | | | | | |
| | | 63 | 3 | 0,80 | 1,85 | 30 | 75 | | | | | | |

Temperature range:

-5 °C to +60 °C

Safety:

- 3:1

Reinforcement:

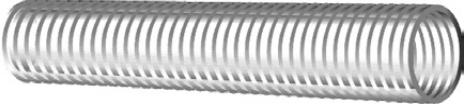
- Spiral made of steel wire – guarantees high flexibility.

Material:

- Softened PVC – transparent, suitable for use in food industry, resistant against ozone

Use:

- Suction and discharge of food products without fat contents – potable water, juices, wine, alcoholic beverages up to 28% alc. vol., winegar, ketchup, etc.

| Suction and pressure hose for liquids in food industry Druck-und Saug-Schläuche für die Lebensmittelindustrie | 76080 | Pressure | Under- pressure | Weight | Length | Dimensions • Baumaße | | | | | | | |
|--|-------|----------|--------------------|--------|--------|----------------------|--|--|--|--|----|--|--|
| | | DN | [bar] | [bar] | [kg/m] | [m] | | | | | kg | | |
|  | | 20 | 8 | 0,7 | 0,30 | 50 | | | | | | | |
| | | 25 | 8 | 0,7 | 0,40 | 50 | | | | | | | |
| | | 32 | 7 | 0,7 | 0,48 | 50 | | | | | | | |
| | | 40 | 6 | 0,7 | 0,60 | 50 | | | | | | | |
| | | 45 | 6 | 0,7 | 0,70 | 50 | | | | | | | |
| | | 51 | 5 | 0,7 | 0,85 | 50 | | | | | | | |
| | | 60 | 5 | 0,7 | 1,00 | 50 | | | | | | | |
| | | 63 | 5 | 0,7 | 1,10 | 50 | | | | | | | |
| | | 70 | 5 | 0,7 | 1,25 | 50 | | | | | | | |
| | | 76 | 5 | 0,7 | 1,40 | 50 | | | | | | | |
| | | 80 | 4 | 0,7 | 1,60 | 30 | | | | | | | |
| | | 90 | 4 | 0,7 | 1,85 | 30 | | | | | | | |
| | | 102 | 4 | 0,7 | 2,20 | 30 | | | | | | | |

Temperature range:

-5 °C to +60 °C

Safety:

3:1

Reinforcement:

- Spiral made of hardened PVC - white

Material:

- Softened PVC – transparent (transparent yellow), suitable for use in food industry.

Use:

- Transport of food products without fat contents under low-pressure – potable water, juices, wine, alcoholic beverages up to 28% alc. vol., winegar, ketchup, etc.

| Pressure and suction hose for milk and food Druck- und Saugdchlauch für Milch und Lebensmittel | 76140 | | | | | | Dimensions • Baumaße | | | | | |
|---|-------|----|---------|----------------|----------------------|---------------|----------------------|--|--|--|--|----|
| | | DN | ØD [mm] | Pressure [bar] | Under-pressure [bar] | Weight [kg/m] | Length [m] | | | | | kg |
| | | 40 | 52 | 6 | 0,60 | 1,25 | 40/60 | | | | | |
| | | 50 | 63 | 6 | 0,60 | 2,19 | 40/60 | | | | | |
| | | 63 | 77 | 6 | 0,50 | 2,19 | 40/60 | | | | | |
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Temperature range:

-35°C to +85°C

Safety:

- 3:1

Reinforcement:

- Textile braid, spirals of steel wire

Inner tube:

- Rubber NR – white, for use in food industry

Outer tube:

- Rubber NR – blue, resistive against ozone and wearing

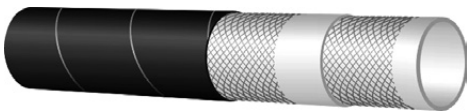
Use:

- Suction and discharge of beverages, food and alcohol up to 40%. Especially suitable for milk tank trucks. Highly flexible design.

Note:

- Sterilisation using a sanitising solution at +100°C for a period of 30 minutes.

| Pressure hoses for food Druckschläuche für die Lebensmittelindustrie | 76180 | | | | | | Dimensions • Baumaße | | | | | |
|---|-------|-----|---------|----------------|---------------|------------|----------------------|--|--|--|----|--|
| | | DN | ØD [mm] | Pressure [bar] | Weight [kg/m] | Length [m] | | | | | kg | |
| | | 13 | 22 | 10 | 0,26 | 60 | | | | | | |
| | | 16 | 24 | 10 | 0,35 | 60 | | | | | | |
| | | 19 | 28 | 10 | 0,44 | 60 | | | | | | |
| | | 25 | 35 | 10 | 0,64 | 60 | | | | | | |
| | | 32 | 44 | 10 | 1,01 | 60 | | | | | | |
| | | 40 | 54 | 10 | 1,43 | 60 | | | | | | |
| | | 51 | 65 | 10 | 1,78 | 60 | | | | | | |
| | | 63 | 81 | 10 | 2,86 | 60 | | | | | | |
| | | 76 | 92 | 10 | 2,65 | 60 | | | | | | |
| | | 80 | 96 | 10 | 2,98 | 60 | | | | | | |
| | | 102 | 123 | 10 | 5,15 | 60 | | | | | | |
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Temperature range:

-35 °C to +85 °C

Safety: • Безопасность:

- 3:1

Reinforcement:

- Textile braid

Inner tube:

- Rubber NR – natural rubber, for use in food industry:

Outer tube:

- Rubber SBR/EPDM – red, resistive against ozone and wearing

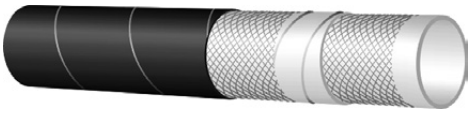
Use:

- Transport of food products, beer, wine, milk products, custards, distilled beverages up to 40%, etc.

The hose is not suitable for food containing vegetable and animal fats.

Note:

- Sterilisation using steam under pressure of 2,5 bar at + 130 °C for a period of 30 minutes or using a sanitising solution at + 90°C.

| Pressure and suction hose for food Druck-und Saug-Schläuche für die Lebensmittelindustrie | 76210 | | | | | | | Dimensions • Baumaße | | | |
|--|-------|-----|---------|----------------|----------------------|---------------|------------|----------------------|--|--|----|
| | | DN | ØD [mm] | Pressure [bar] | Under-pressure [bar] | Weight [kg/m] | Length [m] | | | | kg |
|  | 25 | 38 | 10 | 0,95 | 0,91 | 40/60 | | | | | |
| | 32 | 46 | 10 | 0,95 | 1,19 | 40/60 | | | | | |
| | 38 | 52 | 10 | 0,95 | 1,45 | 40/60 | | | | | |
| | 51 | 65 | 10 | 0,90 | 1,92 | 40/60 | | | | | |
| | 63 | 80 | 10 | 0,90 | 2,83 | 40/60 | | | | | |
| | 76 | 93 | 10 | 0,90 | 3,45 | 40/60 | | | | | |
| | 80 | 98 | 10 | 0,85 | 3,90 | 40/60 | | | | | |
| | 100 | 120 | 10 | 0,85 | 4,90 | 40/60 | | | | | |
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Temperature range:

-35 °C to +120 °C

Safety:

- 3:1

Reinforcement:

- Textile braid, spirals of steel wire

Inner tube; Внутренняя камера:

- Rubber IIR (Butyl) – white, for use in food industry, absolutely savour and odour neutral

Outer tube; Внешнее покрытие:

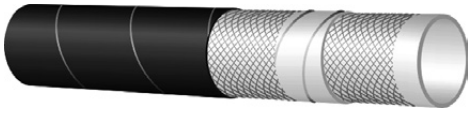
- Rubber EPDM – red, for use in food industry, resistive against ozone and wearing

Use:

- Hoses of the highest quality. Suction and discharge of beverages, food and pure alcohol up to 98%. Especially suitable type for breweries and producers of hard drinks. Not suitable for oils and fats.

Note:

- Sterilisation using steam under pressure of 3 bar at max. temperature +160 °C for a period of 30 minutes or using a sanitising solution at +90 °C.

| Pressure and suction hose for fats and oil Druck-und Saugschläuche für Öl Fette | 76220 | | | | | | | Dimensions • Baumaße | | | |
|---|-------|-----|---------|----------------|----------------------|---------------|------------|----------------------|--|--|----|
| | | DN | ØD [mm] | Pressure [bar] | Under-pressure [bar] | Weight [kg/m] | Length [m] | | | | kg |
|  | 25 | 34 | 10 | 0,95 | 0,60 | 40/60 | | | | | |
| | 32 | 42 | 10 | 0,95 | 0,68 | 40/60 | | | | | |
| | 38 | 48 | 10 | 0,95 | 0,84 | 40/60 | | | | | |
| | 40 | 50 | 10 | 0,95 | 1,03 | 40/60 | | | | | |
| | 51 | 62 | 10 | 0,90 | 1,40 | 40/60 | | | | | |
| | 60 | 72 | 10 | 0,90 | 1,96 | 40/60 | | | | | |
| | 63 | 76 | 10 | 0,90 | 2,04 | 40/60 | | | | | |
| | 76 | 89 | 10 | 0,90 | 2,34 | 40/60 | | | | | |
| | 80 | 94 | 10 | 0,85 | 2,46 | 40/60 | | | | | |
| | 102 | 117 | 10 | 0,85 | 3,66 | 40/60 | | | | | |
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| | | | | | | | | | | | |

Temperature range:

-20°C to +80°C

Safety:

- 3:1

Reinforcement:

- Textile braid, spirals of steel wire

Inner tube; Внутренняя камера:

- Rubber NBR – white, resistive against oils and fats, for use in food industry savour and odour neutral

Outer tube:

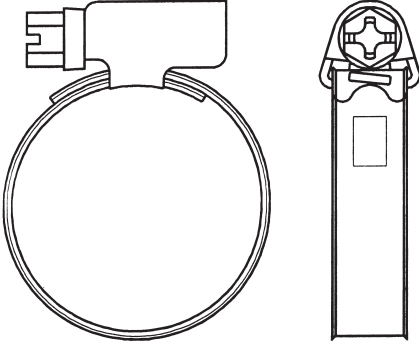
- Rubber NR – blue, resistive against ozone and wearing


Use:

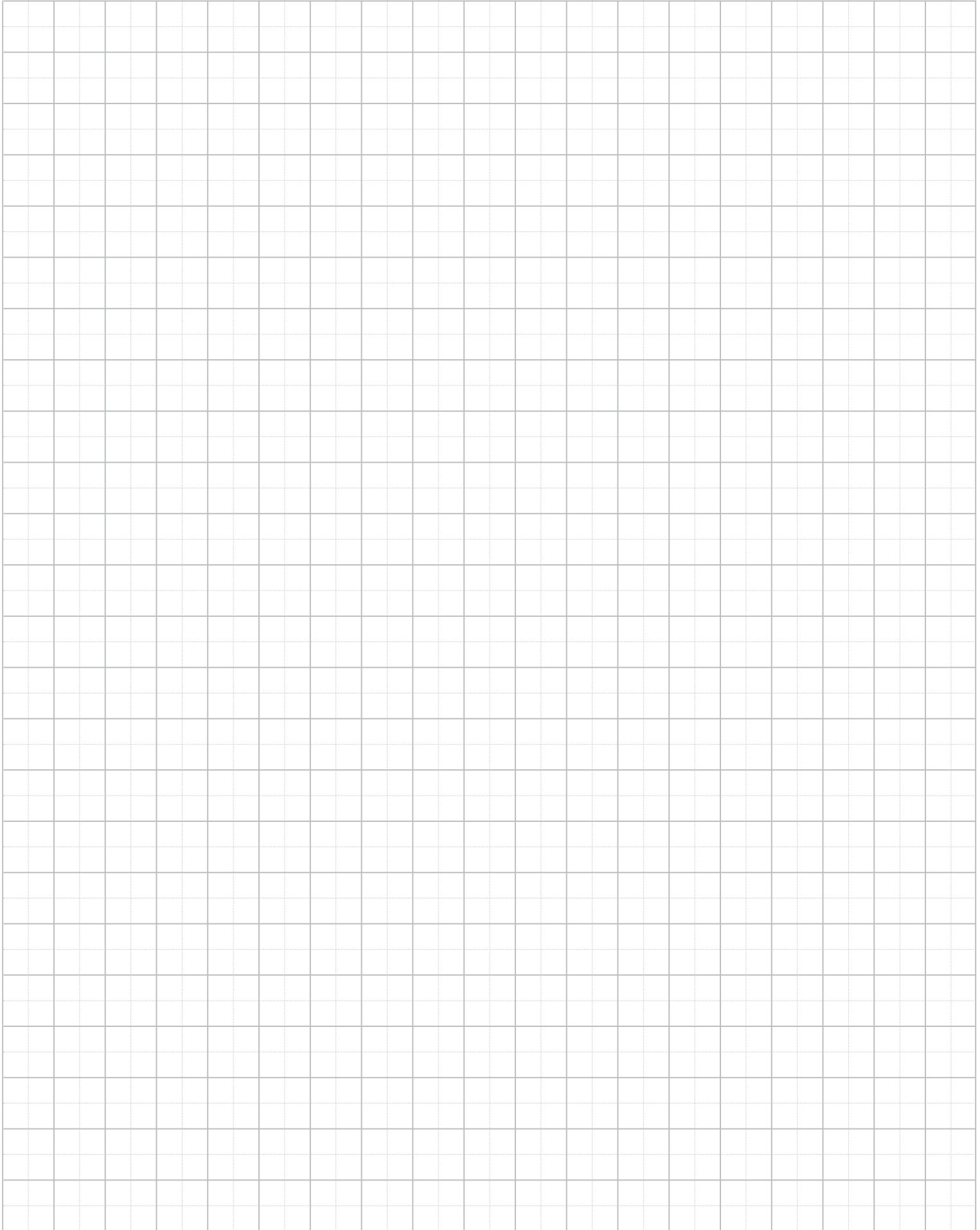
- Suction and discharge of food products containing vegetable and animal fats. Suitable also for discharge of beer, wine, milk products, distilled beverages up to 40%, etc

Note:

- Sterilisation using steam under pressure of 2.5 bar at +130 °C for a period of 30 minutes or using a sanitising solution at +60°C.

| Hose clamp Klammer | 76100 | Dimensions • Baumaße | | | | | | | | | |
|---|----------|----------------------|---|---|---|--|--|--|--|--|----|
| | | DN | A | B | C | | | | | | kg |
|  | 8 - 2 | | | | | | | | | | |
| | 10 - 16 | | | | | | | | | | |
| | 12 - 20 | | | | | | | | | | |
| | 16 - 25 | | | | | | | | | | |
| | 20 - 32 | | | | | | | | | | |
| | 25 - 40 | | | | | | | | | | |
| | 30 - 45 | | | | | | | | | | |
| | 32 - 50 | | | | | | | | | | |
| | 40 - 60 | | | | | | | | | | |
| | 50 - 70 | | | | | | | | | | |
| | 60 - 80 | | | | | | | | | | |
| | 70 - 90 | | | | | | | | | | |
| | 10 - 100 | | | | | | | | | | |
| | 90 - 110 | | | | | | | | | | |

| Hose Power clamp W4 Fastigung Klammer | 76120 | Dimensions • Baumaße | | | | | | | | | |
|---|-----------|----------------------|---|---|---|--|--|--|--|--|----|
| | | DN | A | B | C | | | | | | kg |
|  | 20 - 22 | 18 | | | | | | | | | |
| | 23 - 25 | 18 | | | | | | | | | |
| | 26 - 28 | 18 | | | | | | | | | |
| | 29 - 31 | 20 | | | | | | | | | |
| | 32 - 35 | 20 | | | | | | | | | |
| | 36 - 39 | 20 | | | | | | | | | |
| | 40 - 43 | 20 | | | | | | | | | |
| | 44 - 47 | 22 | | | | | | | | | |
| | 48 - 51 | 22 | | | | | | | | | |
| | 52 - 55 | 22 | | | | | | | | | |
| | 56 - 59 | 22 | | | | | | | | | |
| | 60 - 63 | 22 | | | | | | | | | |
| | 64 - 67 | 22 | | | | | | | | | |
| | 68 - 73 | 24 | | | | | | | | | |
| | 74 - 79 | 24 | | | | | | | | | |
| | 80 - 85 | 24 | | | | | | | | | |
| | 86 - 91 | 24 | | | | | | | | | |
| | 92 - 97 | 24 | | | | | | | | | |
| | 98 - 103 | 24 | | | | | | | | | |
| | 104 - 112 | 24 | | | | | | | | | |
| 113 - 121 | 24 | | | | | | | | | | |
| 122 - 130 | 24 | | | | | | | | | | |
| 131 - 139 | 26 | | | | | | | | | | |
| 140 - 148 | 26 | | | | | | | | | | |
| 149 - 161 | 26 | | | | | | | | | | |



| CONVERSION TABLE | | UMRECHNUNGSTABELLE | |
|------------------|--------|--------------------|--|
| DN | (inch) | (mm) | |
| 8 | 1/4" | 6,35 | |
| 10 | 3/8" | 9,25 | |
| 15 | 1/2" | 12,7 | |
| 20 | 3/4" | 19,0 | |
| 25 | 1" | 25,4 | |
| 32 | 1 1/4" | 31,7 | |
| 40 | 1 1/2" | 38,1 | |
| 50 | 2" | 51,0 | |
| 65 | 2 1/2" | 63,5 | |
| 80 | 3" | 76,1 | |
| 100 | 4" | 104,0 | |

| BAR CONVERSION CHARTS | BAR UMPRECHNUNGSTABELLE |
|-----------------------|-----------------------------------|
| <h1>1 Bar</h1> | 100000 Pascals |
| | 100 Kilopascals |
| | 1000 Milibars |
| | 1000000 Microbars |
| | ~0,98 Atmospheres |
| | ~401,46 Inches of wather |
| | 10 Meters of wather |
| | ~29,53 Inches of mercury |
| | ~750 Milimeters of mercury |
| | ~14,5 Pounds per square inches |
| | ~1,02 Kilograms per square inches |

MATERIALS USED

All units and parts listed in this catalogue are produced from non-corrosive acid-resistant Cr – Ni steel ČSN 17 240, which is the equivalent of the German standard DIN 1.4301. If the corrosion-proof requirements of the parts are higher they are produced from non-corrosive Cr-Ni-Mo steel ČSN 17 349 which conforms to DIN 1.4404.

Chemical composition of the most frequently used non-corrosive steels

| ČSN PN | %C max. | %Si max. | %Mn max. | %P max. | %S max. | %Cr max. | %Mo max. | %Ni max. | %Ti max. |
|---------------|------------|-------------|-------------|------------|------------|-------------|-------------|-------------|-------------|
| 17 240 | 0.07 | 1.00 | 2.00 | 0.045 | 0.030 | 17.0-20.0 | - | 9.0 -11.5 | - |
| 17 249 | 0.03 | 1.00 | 2.00 | 0.045 | 0.030 | 17.0-20.0 | - | 10.0-12.5 | - |
| 17 346 | 0.07 | 1.00 | 2.00 | 0.045 | 0.030 | 16.5-18.5 | 2.0-2.5 | 10.5-13.5 | - |
| 17349 | 0.03 | 1.00 | 2.00 | 0.045 | 0.030 | 16.5-18.5 | 2.0-2.5 | 11.0-14.0 | - |
| 17 248 | 0.10 | 1.00 | 2.00 | 0.045 | 0.030 | 17.0-19.0 | - | 9.5-12.0 | >=5xC |
| 17 348 | 0.10 | 1.00 | 2.00 | 0.045 | 0.030 | 16.5-18.5 | 2.0-2.5 | 11.0-14.0 | >=5xC |

International standards conversion table for marking steels

| Poldi | Czech Rep. PN | Germany DIN (W. Nr.) | USA ASTM | Italy UNI | France AFNOR | Russia GOST |
|-----------|------------------|-------------------------|-------------|----------------|-----------------|----------------|
| AKV7 | 17240 | 1.4301 | AISI 304 | X5CrNi1810 | Z7CN18-09 | 08Ch18N10 |
| AKV2 | 17249 | 1.4306 | AISI304L | X2CrNi1811 | Z3CN19-121 | 03Ch18N11 |
| AKV EX7 | 17346 | 1.4401 | AISI 316 | X5CrNiMo1712.2 | Z7CND17-12-02 | - |
| AKV EX2 | 17349 | 1.4404 | AISI 316L | X2CrNiMo1713.2 | Z3CND18-12-02 | 03Ch12N14M2 |
| AKVS7 | 17248 | 1.4541 | AISI 321 | X6CrNiTi1811 | Z6CNT18-10 | 08Ch18N10T |
| AKV EX S9 | 17348 | 1.4571 | AISI 316Ti | X6CrNiMoTi1712 | Z6CNDT17-12 | 08Ch17N13M2 |

DESIGN

The bulk of products are produced from bars or forged material. The material is in such a state that after welding it is not necessary to carry out further treatment. Tubular adapting pipes in their basic finish are pickled – matt, or treated – ground (brushed).

PIPE CONNECTING PARTS – DIN SCREW COUPLINGS

These are produced according to the DIN 11 851 standard and the screw thread according to the DIN 405 (ČSN 01 4037) standard. Connection of the sockets (screw thread or ring) to the tubes can be done in two ways:

- a) butt welding
- b) flaring the inside diameter

From diameters of 50mm and above it is necessary to ensure flaring of connections with a seam weld. Flared connections with a seam weld are hygienically unobjectionable and are suitable for pressures of 1 MPa (tested at a pressure of 2 MPa). Parts which do not correspond to any standards are produced according to branch or factory standards, and possibly workshop standards, and in some cases to approved technical drawings.

SEALING

Seals listed in this catalogue are produced from the following materials – SILICON, PERBUNAN, EPDM or VITON. They are supplied separately or as part of the set. Prices for tubular adapting pipes and sets of screw couplings do not include sealing rings.

MAINTENANCE

Without exception the materials used are suitable for general use in the food-processing industry. These materials are sensitive to high concentrations of chloride solutions and therefore we recommend that the instructions and recommendations of the manufacturer are heeded. Corrosion can only be prevented if these instructions are adhered to.

SPECIAL DESIGN

Apart from the standard parts listed in this catalogue we also supply special designs according to customer requirements and their technical documentation.

INSTRUCTIONS FOR ORDERING

For quick and simple processing of your order please supply the following data:

| 1 | 2 | 3 | 4 |
|------------------------------|---------------|----------|----------|
| numerical labelling of goods | dimension(DN) | material | amount |

If group „3” is not listed in the order we automatically supply material 17 240 (DIN 1.4301)

If you require other parts and units than those in this catalogue please send your specific requirements.

This issue nullifies all previous catalogues and delivery conditions listed in them.

We would be pleased to discuss your specific requirements and answer your questions in person. We look forward to your visit.

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| ČSN PN | %C max. | %Si max. | %Mn max. | %P max. | %S max. | %Cr max. | %Mo max. | %Ni max. | %Ti max. |
|-----------|------------|-------------|-------------|------------|------------|-------------|-------------|-------------|-------------|
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| 17 249 | 0.03 | 1.00 | 2.00 | 0.045 | 0.030 | 17.0-20.0 | - | 10.0-12.5 | - |
| 17 346 | 0.07 | 1.00 | 2.00 | 0.045 | 0.030 | 16.5-18.5 | 2.0-2.5 | 10.5-13.5 | - |
| 17349 | 0.03 | 1.00 | 2.00 | 0.045 | 0.030 | 16.5-18.5 | 2.0-2.5 | 11.0-14.0 | - |
| 17 248 | 0.10 | 1.00 | 2.00 | 0.045 | 0.030 | 17.0-19.0 | - | 9.5-12.0 | >=5xC |
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| AKVS7 | 17248 | 1.4541 | AISI 321 | X6CrNiTi1811 | Z6CNT18-10 | 08Ch18N10T |
| AKV EX S9 | 17348 | 1.4571 | AISI 316Ti | X6CrNiMoTi1712 | Z6CNDT17-12 | 08Ch17N13M2 |

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PIPE CONNECTING PARTS – DIN SCREW COUPLINGS

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Without exception the materials used are suitable for general use in the food-processing industry. These materials are sensitive to high concentrations of chloride solutions and therefore we recommend that the instructions and recommendations of the manufacturer are heeded. Corrosion can only be prevented if these instructions are adhered to.

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|------------------------------|---------------|----------|----------|
| numerical labelling of goods | dimension(DN) | material | amount |

If group „3” is not listed in the order we automatically supply material 17 240 (DIN 1.4301)

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| Technical Information for Gaskets | | | | | |
|---|---|---|---|--|---|
| Title | Silicon (VMQ silicon rubber) | EPDM (ethylene-propylene-diene rubber) | Viton (FPM fluorine rubber) | Perbunan (NBR nitrile rubber) | PTFE (polytetrafluorethylene) |
| Temperature of use | It is stable in water up to 100 °C Possibility of sterilisation by steam short-term up to 120 °C to 130 °C | Permanent operating use from 40 °C to +140 °C Possibility of sterilisation by steam up to 130 °C | Permanent operating use from 20 °C to +200 °C Possibility of sterilisation by steam short-term up to 130 °C to 140 °C | Permanent operating use from 25 °C to +110 °C Possibility of sterilisation by steam short-term up to 130 °C | Up to +200 °C it is physiologically harmless, use from 200 °C to +260 °C |
| Recommended use | High temperature load capacity It has good resistance to cold, suitable for food, it has dielectric properties. It has good resistance to alcohols. | It has good resistance to swelling for: • Diluted inorganic and organic acids, media, oxidising media, lyes, and ketones • Hot water and steam up to 130 °C | It has good resistance to swelling for: • Mineral oils • Plant and animal oils • Lubricants (also some additives) • Fuels | It has good resistance to swelling for: • Aliphatic hydrocarbons (such as propane, butane, benzene, mineral oil) • Lubricants based on mineral oil | It has good resistance to swelling in almost all parts It has a smooth and repellent surface so sticking does not occur It has better chemical resistance than in all other elastomers Non-flammable material |
| Limited use (border) | Shows high swelling for: • Low-molecular esters and ethers • Aliphatic and aromatic hydrocarbons • Concentrated acids and alkali | Cannot be used for: • Plant and animal oils • Aliphatic, aromatic, and chlorinated hydrocarbons • Mineral oils | Shows high swelling for: • Polar solvents, such as acetone, methyl ketone, ethyl acetate, diethyl ether, and dioxane • Low-molecular organic acids (formic acid and acetic acid) • Gaseous ammonia, amines and alkanes • Overheated water steam | Not resistant to: • Polar solvents • Chlorinated hydrocarbons • Ketones • Aromatic hydrocarbons (benzol) • Esters | Not resistant to: • Liquid alkaline metals and some compounds of fluorine in connection with higher pressure and temperature The material does not show the flexibility of rubber. |
| Material approval | BGA/FDA | BGA/FDA | BGA/FDA | BGA/FDA | BGA/FDA |
| BGA = approval of the "Federal Health Authority" in Germany ("Bundesgesundheitsamt") FDA = approval of the "US Food and Drug Administration" | | | | | |

| Technische Informationen für Dichtringe | | | | | |
|---|--|---|--|---|---|
| Name | Silikon (VMQ) | EPDM (Ethylen-Propylen-Dien- Kautschuk) | Viton (FPM) | Perbunan (NBR) | PTFE (Polytetrafluoräthylen) |
| Einsatztemperatur | in Wasser bis 100°C beständig Dampfsterilisierbar kurzfristig bis 120°C - 130°C | Dauereinsatz von minus 40°C bis 140°C Dampfsterilisierbar bis 130°C | Dauereinsatz von minus 20°C bis 200°C Dampfsterilisierbar kurzfristig bis 130°C - 140°C | Dauereinsatz von minus 25°C bis 110°C Dampfsterilisierbar kurzfristig bis 130°C | bis 200°C physiologisch unbedenklich, Einsatz von -200°C bis +260°C |
| typ. Einsatzbereich | hohe thermische Belastbarkeit gute Kältebeständigkeit, für lebensmittel gut geeignet, dielektrische Eigenshaften gute Beständigkeit gegenüber Alkoholen | gute Quellbeständigkeit bei: • verdünnte anorg.- und organische Säuren, Medien, oxidierend wirkende Medien, Laugen und Kentonen • in Heißwasser und Dampf bis 130°C | gute Quellbeständigkeit bei: • Mineralölen • pflanzlichen und tierischen Ölen • Fetten (auch bestimmte Additive) • Kraftstoffe | gute Quellbeständigkeit • aliphatischen Kohlenwasserstoffen (wie Propan, Butan, Benzin, Mineralölen) • Fett auf Mineralölbasis | gute Quellbeständigkeit in nahezu allen Teilen Oberfläche glatt und abweisend, dadurch kein Haften von Rückständen chemische Beständig- keit besser als bei allen anderen Elastomeren kaum brennbar |
| Einsatzgrenzen | hohe Quellung bei: • niedermolekularen Estern und Ethern • aliphatischen und aromatischen Kohlen- wasserstoffen • konz. Säuren und Alkalien | nicht einzusetzen bei: • pflanzlichen und tierischen Ölen • aliphatischen aromatischen und chlorierten kohlen- wasserstoffen • Mineralöle | stark quellend bei: • polaren Lösungsmitteln wie Aceton, Methyl- keton, Ethylacetat, Diethylether u. Dioxane • niedermolekularen organ. Säuren (Ameisen - und Essigsäuren) • Ammoniakgase, Amine u. Alkanien • überhitzter Wasserdampf | nicht beständig bei: • polaren Lösungsmitteln • chlorierten Kohlen- wasserstoffen • Ketone • Aromaten (Benzol) • Ester | nicht beständig bei: • flüssigen Alkalimetallen und einigen Flourverbindungen in Verbindung mit hohem Druck und Temperatur kein gummielastischer Werkstoff |
| Werkstoffzulassung | BGA/FDA | BGA/FDA | BGA/FDA | BGA/FDA | BGA/FDA |
| BGA = Bundesgesundheitsamt FDA = US Food and Drug Administration | | | | | |



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