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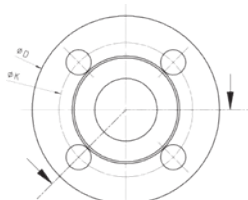


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1. Hose fittings
 - 1.1. Barbed hose fittings for band clamp

1.1.1. Male barb fitting

One side barb fittings for assembly with band clamps, other side male thread.

- › max. operating pressure: 10 bar / 145 PSI
- › Operation temperature: -20°C to +65°C

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

VRS



› Stainless steel V4A

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSPT 1/2"	300.013050.120
19 (3/4")	BSPT 3/4"	300.019075.120
25 (1")	BSP 1"	300.025100.120
32 (1 1/4")	BSP 1 1/4"	300.032125.120
38/40 (1 1/2")	BSP 1 1/2"	300.040150.120
50 (2")	BSP 2"	300.050200.120
63/65 (2 1/2")	BSP 2 1/2"	300.065250.120
75 (3")	BSP 3"	300.075300.120
80 (3")	BSP 3"	300.080300.120
100 (4")	BSP 4"	300.100400.120

DN = Hose inner diameter

› BSPT-thread, BSP-thread

VRS



› Brass

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSPT 1/2"	300.013050.130
13 (1/2")	BSPT 3/4"	300.013075.130
19 (3/4")	BSPT 3/4"	300.019075.130
19 (3/4")	BSP 1"	300.019100.130
25 (1")	BSP 1"	300.025100.130
25 (1")	BSP 1 1/4"	300.025125.130
32 (1 1/4")	BSP 1 1/4"	300.032125.130
32 (1 1/4")	BSP 1 1/2"	300.032150.130
38/40 (1 1/2")	BSP 1 1/2"	300.040150.130
38/40 (1 1/2")	BSP 2"	300.040200.130
50 (2")	BSP 2"	300.050200.130
63/65 (2 1/2")	BSP 2 1/2"	300.065250.130
63/65 (2 1/2")	BSP 3"	300.065300.130
75 (3")	BSP 3"	300.075300.130
80 (3")	BSP 3"	300.080300.130
100 (4")	BSP 4"	300.100400.130

DN = Hose inner diameter

› BSPT-thread, BSP-thread

VRS



› Aluminium

DN mm (inch)	Thread inch/mm	Item code
75 (3")	BSP 3"	300.075300.140

DN = Hose inner diameter

› BSP-thread



Supplementary products:
 Band clamps SZ (see page 13)
 Dust caps BK (see page 116)

1.1.2. Female barb fitting

One side barb fitting for assembly with band clamps,
other side female thread.

- › max. operating pressure: 10 bar / 145 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› BSP-thread

- › Thread seal: Polytetrafluorethylene (PTFE)

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	100.013050.122
13 (1/2")	BSP 3/4"	100.013075.122
19 (3/4")	BSP 3/4"	100.019075.122
19 (3/4")	BSP 1"	100.019100.122
25 (1")	BSP 1"	100.025100.122
32 (1 1/4")	BSP 1 1/4"	100.032125.122
38/40 (1 1/2")	BSP 1 1/2"	100.040150.122
50 (2")	BSP 2"	100.050200.122
63/65 (2 1/2")	BSP 2 1/2"	100.065250.122
75 (3")	BSP 3"	100.075300.122

DN = Hose inner diameter



› Brass

› BSP-thread

- › Thread seal: Polyurethane rubber (AU)

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	100.013050.133
13 (1/2")	BSP 3/4"	100.013075.133
19 (3/4")	BSP 3/4"	100.019075.133
19 (3/4")	BSP 1"	100.019100.133
25 (1")	BSP 1"	100.025100.133
25 (1")	BSP 1 1/4"	100.025125.133
32 (1 1/4")	BSP 1 1/4"	100.032125.133
32 (1 1/4")	BSP 1 1/2"	100.032150.133
38/40 (1 1/2")	BSP 1 1/2"	100.040150.133
38/40 (1 1/2")	BSP 2"	100.040200.133
50 (2")	BSP 2"	100.050200.133
63/65 (2 1/2")	BSP 2 1/2"	100.065250.133
63/65 (2 1/2")	BSP 3"	100.065300.133
75 (3")	BSP 3"	100.075300.133
80 (3")	BSP 3"	100.080300.133
100 (4")	BSP 4"	100.100400.133

DN = Hose inner diameter



› Steel zinc plated

› rail car thread (DIN 11)

› Swivel nut: misc. materials

- › Thread seal: Polyurethane rubber (AU)

DN mm (inch)	Thread inch/mm	Swivel nut	Item code
100 (4")	5 1/2" WW	Steel	100.100550.511
100 (4")	5 1/2" WW	MS	100.100550.513
100 (4")	5 1/2" WW	AL	100.100550.514

DN = Hose inner diameter



- 1. Hose fittings
 - 1.1. Barbed hose fittings for band clamp

1.1.2. Female barb fitting

- › Steel zinc plated
- › Swivel nut: Aluminium
- › rail car thread (DIN 11)
- › Thread seal: Polyurethane rubber (AU)

MRS



DN mm (inch)	Thread inch/mm	Swivel nut	Item code
100 (4")	5 1/2" WW	AL	100.100550.51401

DN = Hose inner diameter



Supplementary products:
 Band clamps SZ (see page 13)
 Dust plugs BS (see page 117)
 Thread seals GD (see page 135)

1.1.3. Barb fitting with swivel flange

One side barb fittings for assembly with band clamps, other side swivel flange.

- › max. operating pressure: 10 bar / 145 PSI, from DN 125 up 6 bar / 87 PSI
- › Operation temperature: -20°C to +65°C

- › Stainless steel V4A
- › Flange interface: EN PN 40

FRS



Fitting DN mm (inch)	Flange DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	986.013000.422
19 (3/4")	20 (3/4")	986.019000.422
25 (1")	25 (1")	986.025000.422
32 (1 1/4")	32 (1 1/4")	986.032000.422
38 (1 1/2")	40 (1 1/2")	986.038000.422
38/40 (1 1/2")	40 (1 1/2")	986.040000.422

DN = Hose inner diameter

DN² = Nominal size flange

- › Stainless steel V4A
- › Flange interface: EN PN 16

FRS



Fitting DN mm (inch)	Flange DN ² mm (inch)	Item code
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	986.050000.222
63 (2 1/2")	65 (2 1/2")	986.063000.222
63/65 (2 1/2")	65 (2 1/2")	986.065000.222
75 (3")	80 (3")	986.075000.222
80 (3")	80 (3")	986.080000.222
100 (4")	100 (4")	986.100000.222
125 (5")	125 (5")	986.125000.222
150 (6")	150 (6")	986.150000.222

DN = Hose inner diameter

DN² = Nominal size flange

1.1.3. Barb fitting with swivel flange

› Stainless steel V4A

› Flange interface: EN PN 10

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
200 (8")	200 (8")	986.200000.122

DN = Hose inner diameter

DN² = Nominal size flange



FRS

› Stainless steel V4A

› Flange interface: EN PN 16

› Swivel flange: Steel zinc plated

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 40		
63 (2 1/2")	65 (2 1/2")	986.063000.221
65 (2 1/2")	65 (2 1/2")	986.065000.221
75 (3")	80 (3")	986.075000.221
80 (3")	80 (3")	986.080000.221
100 (4")	100 (4")	986.100000.221
125 (5")	125 (5")	986.125000.221

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.



FRS

› Steel zinc plated

› Flange interface: EN PN 40

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	986.013000.411
19 (3/4")	20 (3/4")	986.019000.411
25 (1")	25 (1")	986.025000.411
32 (1 1/4")	32 (1 1/4")	986.032000.411
38 (1 1/2")	40 (1 1/2")	986.038000.411
38/40 (1 1/2")	38/40 (1 1/2")	986.040000.411

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.



FRS

› Steel zinc plated

› Flange interface: EN PN 16

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
50 (2")	50 (2")	986.050000.211
63 (2 1/2")	65 (2 1/2")	986.063000.211
65 (2 1/2")	65 (2 1/2")	986.065000.211
75 (3")	80 (3")	986.075000.211
80 (3")	80 (3")	986.080000.211
100 (4")	100 (4")	986.100000.211
125 (5")	125 (5")	986.125000.211
150 (6")	150 (6")	986.150000.211

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.



FRS

1. Hose fittings
 - 1.1. Barbed hose fittings for band clamp

1.1.3. Barb fitting with swivel flange

FRS



› Steel zinc plated

› Flange interface: EN PN 10

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 16		
200 (8")	200 (8")	986.200000.111
250 (10")	250 (10")	986.250000.111

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.



Supplementary products:
Band clamps SZ (see page 13)

1.1.4. Barb fitting with fixed flange

One side barb fittings for assembly with band clamps, other side fixed flange

- › max. operating pressure: 10 bar / 145 PSI, from DN 125 up 6 bar / 87 PSI
- › Operation temperature: -20°C to +65°C

FRS



› Stainless steel V4A

› Flange interface: EN PN 40

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	988.013000.420
19 (3/4")	20 (3/4")	988.019000.420
25 (1")	25 (1")	988.025000.420
32 (1 1/4")	32 (1 1/4")	988.032000.420
38 (1 1/2")	40 (1 1/2")	988.038000.420
38/40 (1 1/2")	40 (1 1/2")	988.040000.420
50 (2")	50 (2")	988.050000.420

DN = Hose inner diameter

DN² = Nominal size flange

FRS



› Stainless steel V4A

› Flange interface: EN PN 16

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	988.050000.220
63 (2 1/2")	65 (2 1/2")	988.063000.220
65 (2 1/2")	65 (2 1/2")	988.065000.220
75 (3")	80 (3")	988.075000.220
80 (3")	80 (3")	988.080000.220
100 (4")	100 (4")	988.100000.220
125 (5")	125 (5")	988.125000.220
150 (6")	150 (6")	988.150000.220

DN = Hose inner diameter

DN² = Nominal size flange

1.1.4. Barb fitting with fixed flang

› Steel zinc plated

› Flange interface: EN PN 40

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	988.013000.410
19 (3/4")	20 (3/4")	988.019000.410
25 (1")	25 (1")	988.025000.410
32 (1 1/4")	32 (1 1/4")	988.032000.410
38 (1 1/2")	40 (1 1/2")	988.038000.410
38/40 (1 1/2")	40 (1 1/2")	988.040000.410
50 (2")	50 (2")	988.050000.410

DN = Hose inner diameter

DN² = Nominal size flange



FRS

Hose fittings

Quick couplings

› Steel zinc plated

› Flange interface: EN PN 16

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	988.050000.210
63 (2 1/2")	65 (2 1/2")	988.063000.210
65 (2 1/2")	65 (2 1/2")	988.065000.210
75 (3")	80 (3")	988.075000.210
80 (3")	80 (3")	988.080000.210
100 (4")	100 (4")	988.100000.210
125 (5")	125 (5")	988.125000.210
150 (6")	150 (6")	988.150000.210

DN = Hose inner diameter

DN² = Nominal size flange



FRS

Adapter

Gaskets

› Steel zinc plated

› Flange interface: EN PN 10

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 16		
200 (8")	200 (8")	988.200000.110
250 (10")	250 (10")	988.250000.110

DN = Hose inner diameter

DN² = Nominal size flange



FRS

Accessories

Swivel joints

Modular welding system

Technical annex



Supplementary products:
Band clamps SZ (see page 13)

1. Hose fittings
 - 1.1. Barbed hose fittings for band clamp

1.1.5. Barb fitting with welding end

One side barb fittings for assembly with band clamps, other side welding end ISO 1127 row 1.

- › max. operating pressure: 10 bar / 145 PSI, from DN 125 up 6 bar / 87 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

ARS



DN mm (inch)	Welding end mm	Item code
13 (1/2")	21,3 x 2,0	909.013000.02030
19 (3/4")	26,9 x 2,3	909.019000.02030
25 (1")	33,7 x 2,6	909.025000.02030
32 (1 1/4")	42,4 x 2,6	909.032000.02030
38 (1 1/2")	48,3 x 2,6	909.038000.02030
40 (1 1/2")	48,3 x 2,6	909.040000.02030
50 (2")	60,3 x 2,9	909.050000.02030
63 (2 1/2")	76,1 x 2,9	909.063000.02030
65 (2 1/2")	76,1 x 2,9	909.065000.02030
75 (3")	88,9 x 3,2	909.075000.02030
80 (3")	88,9 x 3,2	909.080000.02030
100 (4")	114,3 x 3,6	909.100000.02030
125 (5")	139,7 x 4,0	909.125000.02030
150 (6")	168,3 x 4,5	909.150000.02030
200 (8")	219,1 x 5,9	909.200000.02030

DN = Hose inner diameter

› Steel

ARS



DN mm (inch)	Welding end mm	Item code
13 (1/2")	21,3 x 2,0	909.013000.01030
19 (3/4")	26,9 x 2,3	909.019000.01030
25 (1")	33,7 x 2,6	909.025000.01030
32 (1 1/4")	42,4 x 2,6	909.032000.01030
38 (1 1/2")	48,3 x 2,6	909.038000.01030
38/40 (1 1/2")	48,3 x 2,6	909.040000.01030
50 (2")	60,3 x 2,9	909.050000.01030
63 (2 1/2")	76,1 x 2,9	909.063000.01030
65 (2 1/2")	76,1 x 2,9	909.065000.01030
75 (3")	88,9 x 3,2	909.075000.01030
100 (4")	114,3 x 3,6	909.100000.01030
125 (5")	139,7 x 4,0	909.125000.01030
150 (6")	168,3 x 4,5	909.150000.01030
200 (8")	219,1 x 5,9	909.200000.01030

DN = Hose inner diameter



Supplementary products:
Band clamps SZ (see page 13)

1.1.6. Band clamp

Band clamps, two-piece version with pressed-in stiffening ribs.

- › max. operating pressure: 10 bar / 145 PSI, from DN 125 up 6 bar / 87 PSI
- › Operation temperature: -20°C to +65°C

› Steel zinc plated (Typ 1A)

Outer diameter	Steel band (width x thickness) mm	Item code
47 - 52	20 x 1	611.201050.010
52 - 57	20 x 1	611.201055.010
57 - 62	20 x 1	611.201060.010
62 - 67	20 x 1	611.201065.010
67 - 72	20 x 1	611.201070.010
72 - 77	20 x 1	611.201075.010
77 - 82	20 x 1	611.201080.010
82 - 87	20 x 1	611.201085.010
87 - 92	20 x 1	611.201090.010
92 - 97	20 x 1	611.201095.010
97 - 102	20 x 1	611.201100.010
102 - 107	20 x 1	611.201105.010
107 - 112	20 x 1	611.201110.010
112 - 117	20 x 1	611.201115.010
116 - 122	20 x 1	611.201120.010

AD = Outer diameter



SZ

› Steel zinc plated (Typ 3A)

Outer diameter	Steel band (width x thickness) mm	Item code
121 - 127	25 x 1,5	613.252125.010
126 - 132	25 x 1,5	613.252130.010
131 - 137	25 x 1,5	613.252135.010
136 - 142	25 x 1,5	613.252140.010
141 - 147	25 x 1,5	613.252145.010
146 - 152	25 x 1,5	613.252150.010
150 - 157	25 x 1,5	613.252155.010
155 - 162	25 x 1,5	613.252160.010
160 - 167	25 x 1,5	613.252165.010
165 - 172	25 x 1,5	613.252170.010
170 - 177	25 x 1,5	613.252175.010
175 - 182	25 x 1,5	613.252180.010

AD = Outer diameter



SZ



Supplementary products:
Barb fittings VRS (see page 6)
Barb fittings MRS (see page 7)
Barb fittings FRS (see page 8)

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.1. Male hose fitting for safety clamps EN 14420

One side hose fitting acc. to EN 14420-2 for assembly with safety clamps other side male thread.

saw tooth shaped grooves 60° triangular grooves

- › max. operating pressure: 25 bar / 362 PSI, for AL 16 bar / 232 PSI, for PP 6 bar / 87 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› 60° triangular grooves (optional)

› BSPT-thread, BSP-thread



VSL



DN mm (inch)	Thread inch/mm	Item code	Item code ... R
13 (1/2")	BSPT 1/2"	320.130050.120	
19 (3/4")	BSPT 1/2"	320.190050.120	
19 (3/4")	BSPT 3/4"	320.190075.120	
19 (3/4")	BSP 1"	320.190100.120	
25 (1")	BSP 3/4"	320.250075.120	
25 (1")	BSP 1"	320.250100.120	
25 (1")	BSP 1 1/4"	320.250125.120	
25 (1")	BSP 1 1/2"	320.250150.120	
25 (1")	BSP 2"	320.250200.120	
32 (1 1/4")	BSP 1 1/4"	320.320125.120	
32 (1 1/4")	BSP 1 1/2"	320.320150.120	
32 (1 1/4")	BSP 2"	320.320200.120	
38 (1 1/2")	BSP 1 1/2"	320.380150.120	
38 (1 1/2")	BSP 2"	320.380200.120	
40 (1 1/2")	BSP 1 1/2"	320.400150.120	
40 (1 1/2")	BSP 2"	320.400200.120	
50 (2")	BSP 2"	320.500200.120	
50 (2")	BSP 2 1/2"	320.500250.120	
63 (2 1/2")	BSP 2 1/2"	320.630250.120	
63 (2 1/2")	BSP 3"	320.630300.120	
63/65 (2 1/2")	BSP 2 1/2"	320.650250.120	
63/65 (2 1/2")	BSP 3"	320.650300.120	
75 (3")	BSP 3"	320.750300.120	
80 (3")	BSP 3"	320.800300.120	
100 (4")	BSP 4"	320.100400.120	

DN = Hose inner diameter

When ordering with grooves state item-# ... + R

› Stainless steel V4A

E-CTFE coated

› BSP-thread

VSL



DN mm (inch)	Thread inch/mm	Item code
19 (3/4")	BSPT 3/4"	320.190075.12005
25 (1")	BSP 1"	320.250100.12005
32 (1 1/4")	BSP 1 1/4"	320.320125.12005
38 (1 1/2")	BSP 1 1/2"	320.380150.12005
50 (2")	BSP 2"	320.500200.12005
75 (3")	BSP 3"	320.750300.12005

DN = Hose inner diameter

1.2.1. Male hose fitting for safety clamps EN 14420

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

› BSP-thread

DN mm (inch)	Thread inch/mm	Item code
25 (1")	BSP 1"	320.250100.12006
32 (1 ¼")	BSP 1 ¼"	320.320125.12006
38 (1 ½")	BSP 1 ½"	320.380150.12006
50 (2")	BSP 2"	320.500200.12006
75 (3")	BSP 3"	320.750300.12006

DN = Hose inner diameter



VSL

› Stainless steel V4A

› 60° triangular grooves (optional)

› NPT-thread



DN mm (inch)	Thread inch/mm	Item code	Item code ... R
13 (½")	NPT ½"	320.130050.320	
19 (¾")	NPT ¾"	320.190075.320	
25 (1")	NPT 1"	320.250100.320	
32 (1 ¼")	NPT 1 ¼"	320.320125.320	
38 (1 ½")	NPT 1 ½"	320.380150.320	
50 (2")	NPT 2"	320.500200.320	
63/65 (2 ½")	NPT 2 ½"	320.650250.320	
75 (3")	NPT 3"	320.750300.320	
100 (4")	NPT 4"	320.100400.320	

DN = Hose inner diameter

When ordering with grooves state item-# ... + R



VSL

› Stainless steel V4A

› Saw tooth

› Rd.-thread

› Thread seal: Polytetrafluorethylene (PTFE)

› Innenoberfläche < Ra 0,8 µm



DN mm (inch)	Thread inch/mm	Item code
13 (½")	Rd. 34 x 1/8"	322.130348.620
19 (¾")	Rd. 44 x 1/6"	322.190446.620
25 (1")	Rd. 52 x 1/6"	322.250526.620
32 (1 ¼")	Rd. 58 x 1/6"	322.320586.620
38 (1 ½")	Rd. 65 x 1/6"	322.380656.620
50 (2")	Rd. 78 x 1/6"	322.500786.620
100 (4")	Rd. 130 x ¼"	322.100134.620

DN = Hose inner diameter



VCS

› Stainless steel V2A

› Saw tooth

› Rd.-thread

› Thread seal: Nitrile butadiene rubber (NBR)

› Innenoberfläche < Ra 0,8 µm



DN mm (inch)	Thread inch/mm	Item code
19 (¾")	Rd. 44 x 1/6"	322.190446.660
25 (1")	Rd. 52 x 1/6"	322.250526.660
32 (1 ¼")	Rd. 58 x 1/6"	322.320586.660
38 (1 ½")	Rd. 65 x 1/6"	322.380656.660



VMS

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.1. Male hose fitting for safety clamps EN 14420

VMS

DN mm (inch)	Thread inch/mm	Item code
40 (1 1/2")	Rd. 65 x 1/6"	322.400656.660
50 (2")	Rd. 78 x 1/6"	322.500786.660
63 (2 1/2")	Rd. 95 x 1/6"	322.630956.660
65 (2 1/2")	Rd. 95 x 1/6"	322.650956.660
75 (3")	Rd. 110 x 1/4"	322.750114.660
100 (4")	Rd. 130 x 1/4"	322.100134.660

DN = Hose inner diameter

› Brass

› BSPT-thread, BSP-thread

VSL



DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSPT 1/2"	320.130050.130
19 (3/4")	BSPT 3/4"	320.190075.130
19 (3/4")	BSP 1"	320.190100.130
25 (1")	BSP 1"	320.250100.130
25 (1")	BSP 1 1/4"	320.250125.130
25 (1")	BSP 1 1/2"	320.250150.130
25 (1")	BSP 2"	320.250200.130
32 (1 1/4")	BSP 1 1/4"	320.320125.130
32 (1 1/4")	BSP 1 1/2"	320.320150.130
32 (1 1/4")	BSP 2"	320.320200.130
35 (1 3/8")	BSP 1 1/2"	320.350150.130
35 (1 3/8")	BSP 2"	320.350200.130
38 (1 1/2")	BSP 1 1/2"	320.380150.130
38 (1 1/2")	BSP 2"	320.380200.130
40 (1 1/2")	BSP 1 1/2"	320.400150.130
40 (1 1/2")	BSP 2"	320.400200.130
45 (1 3/4")	BSP 2"	320.450200.130
50 (2")	BSP 2"	320.500200.130
50 (2")	BSP 2 1/2"	320.500250.130
63 (2 1/2")	BSP 2 1/2"	320.630250.130
63/65 (2 1/2")	BSP 2 1/2"	320.650250.130
63/65 (2 1/2")	BSP 3"	320.650300.130
75 (3")	BSP 2 1/2"	320.750250.130
75 (3")	BSP 3"	320.750300.130
80 (3")	BSP 3"	320.800300.130
100 (4")	BSP 4"	320.100400.130
102 (4")	BSP 4"	320.102400.130

DN = Hose inner diameter

› Brass tin coated

› BSPT-thread, BSP-thread

VSL



DN mm (inch)	Thread inch/mm	Item code
19 (3/4")	BSPT 3/4"	320.190075.13003
19 (3/4")	BSP 1"	320.190100.13003
25 (1")	BSP 1"	320.250100.13003
25 (1")	BSP 1 1/4"	320.250125.13003
32 (1 1/4")	BSP 1 1/4"	320.320125.13003
32 (1 1/4")	BSP 1 1/2"	320.320150.13003
38 (1 1/2")	BSP 1 1/2"	320.380150.13003

1.2.1. Male hose fitting for safety clamps EN 14420

DN mm (inch)	Thread inch/mm	Item code
38 (1 1/2")	BSP 2"	320.380200.13003
40 (1 1/2")	BSP 1 1/2"	320.400150.13003
50 (2")	BSP 2"	320.500200.13003
50 (2")	BSP 2 1/2"	320.500250.13003
63 (2 1/2")	BSP 2 1/2"	320.630250.13003
63/65 (2 1/2")	BSP 2 1/2"	320.650250.13003
63/65 (2 1/2")	BSP 3"	320.650300.13003
75 (3")	BSP 3"	320.750300.13003
100 (4")	BSP 4"	320.100400.13003

DN = Hose inner diameter

› Brass

› BSPT-thread

DN mm (inch)	Thread inch/mm	Item code
25 (1")	BSPT 1"	320.250100.230
32 (1 1/4")	BSPT 1 1/4"	320.320125.230
38 (1 1/2")	BSPT 1 1/2"	320.380150.230
50 (2")	BSPT 2"	320.500200.230
63/65 (2 1/2")	BSPT 2 1/2"	320.650250.230
75 (3")	BSPT 3"	320.750300.230
100 (4")	BSPT 4"	320.100400.230

DN = Hose inner diameter

› Brass

› NPT-thread

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	NPT 1/2"	320.130050.330
19 (3/4")	NPT 3/4"	320.190075.330
25 (1")	NPT 1"	320.250100.330
32 (1 1/4")	NPT 1"	320.320100.330
32 (1 1/4")	NPT 1 1/4"	320.320125.330
38 (1 1/2")	NPT 1 1/2"	320.380150.330
50 (2")	NPT 2"	320.500200.330
63/65 (2 1/2")	NPT 2 1/2"	320.650250.330
75 (3")	NPT 3"	320.750300.330
100 (4")	NPT 4"	320.100400.330
102 (4")	NPT 4"	320.102400.330

DN = Hose inner diameter

› Brass tin coated

› NPT-thread

DN mm (inch)	Thread inch/mm	Item code
25 (1")	NPT 1"	320.250100.33003
32 (1 1/4")	NPT 1 1/4"	320.320125.33003
38 (1 1/2")	NPT 1 1/2"	320.380150.33003
50 (2")	NPT 2"	320.500200.33003

VSL

Hose fittings

Quick couplings

VSL

Adapter



Gaskets

VSL

Accessories



Swivel joints

Modular welding system

VSL

Technical annex



1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.1. Male hose fitting for safety clamps EN 14420

VSL

DN mm (inch)	Thread inch/mm	Item code
63/65 (2 1/2")	NPT 2 1/2"	320.650250.33003
75 (3")	NPT 3"	320.750300.33003
100 (4")	NPT 4"	320.100400.33003

DN = Hose inner diameter

› Steel zinc plated

› BSPT-thread, BSP-thread

VSL



DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSPT 1/2"	320.130050.110
19 (3/4")	BSPT 3/4"	320.190075.110
25 (1")	BSP 1"	320.250100.110
32 (1 1/4")	BSP 1 1/4"	320.320125.110
38 (1 1/2")	BSP 1 1/2"	320.380150.110
50 (2")	BSP 2"	320.500200.110
75 (3")	BSP 3"	320.750300.110
100 (4")	BSP 4"	320.100400.110

DN = Hose inner diameter

› Steel zinc plated

› NPT-thread

VSL



DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	NPT 1/2"	320.130050.310
19 (3/4")	NPT 3/4"	320.190075.310
19 (3/4")	NPT 1"	320.190100.310
25 (1")	NPT 1"	320.250100.310
32 (1 1/4")	NPT 1"	320.320100.310
32 (1 1/4")	NPT 1 1/4"	320.320125.310
32 (1 1/4")	NPT 1 1/2"	320.320150.310
38 (1 1/2")	NPT 1 1/4"	320.380125.310
38 (1 1/2")	NPT 1 1/2"	320.380150.310
50 (2")	NPT 1 1/4"	320.500125.310
50 (2")	NPT 2"	320.500200.310
75 (3")	NPT 2"	320.750200.310
75 (3")	NPT 3"	320.750300.310
100 (4")	NPT 4"	320.100400.310

DN = Hose inner diameter

› Aluminium

› BSP-thread

VSL



DN mm (inch)	Thread inch/mm	Item code
75 (3")	BSP 3"	320.750300.140
100 (4")	BSP 4"	320.100400.140

DN = Hose inner diameter

1.2.1. Male hose fitting for safety clamps EN 14420

› Polypropylene

› BSP-thread



› 60° triangular grooves (optional)

DN mm (inch)	Thread inch/mm	Item code	Item code ... R
25 (1")	BSP 1"	320.250100.150	
38 (1 1/2")	BSP 1 1/2"	320.380150.150	
50 (2")	BSP 2"	320.500200.150	
75 (3")	BSP 3"	320.750300.150	

DN = Hose inner diameter

When ordering with grooves state item-# ... + R



VSL



Supplementary products:

Safety clamps SC (see page 51)

Crimping ferrules PH (see page 53)

Dust caps BK (see page 116)

1.2.2. Female hose fitting for safety clamps EN 14420

One side hose fitting acc. to EN 14420-2 for assembly with safety clamps other side rotatable swivel nut (with NPT fixed female thread).

saw tooth shaped grooves 60° triangular grooves

› max. operating pressure: 25 bar / 362 PSI,
for AL 16 bar / 232 PSI,
for PP 6 bar / 87 PSI

› Operation temperature: -20°C to +65°C

› Stainless steel V4A

› BSP-thread



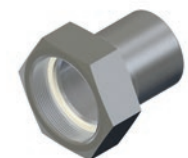
› 60° triangular grooves (optional)

› Thread seal: Polytetrafluorethylene (PTFE)

DN mm (inch)	Thread inch/mm	Item code	Item code ... R
13 (1/2")	BSP 1/2"	120.130050.122	
13 (1/2")	BSP 3/4"	120.130075.122	
19 (3/4")	BSP 1/2"	120.190050.122	
19 (3/4")	BSP 3/4"	120.190075.122	
19 (3/4")	BSP 1"	120.190100.122	
25 (1")	BSP 1"	120.250100.122	
25 (1")	BSP 1 1/4"	120.250125.122	
25 (1")	BSP 1 1/2"	120.250150.122	
32 (1 1/4")	BSP 1 1/4"	120.320125.122	
32 (1 1/4")	BSP 1 1/2"	120.320150.122	
32 (1 1/4")	BSP 2"	120.320200.122	
35 (1 3/8")	BSP 2"	120.350200.122	
38 (1 1/2")	BSP 1 1/2"	120.380150.122	
38 (1 1/2")	BSP 2"	120.380200.122	
40 (1 1/2")	BSP 1 1/2"	120.400150.122	
40 (1 1/2")	BSP 2"	120.400200.122	
50 (2")	BSP 2"	120.500200.122	
50 (2")	BSP 2 1/2"	120.500250.122	
63/65 (2 1/2")	BSP 2 1/2"	120.650250.122	
75 (3")	BSP 3"	120.750300.122	
100 (4")	BSP 4"	120.100400.122	

DN = Hose inner diameter

When ordering with grooves state item-# ... + R



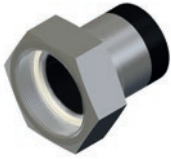
MSL

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.2. Female hose fitting for safety clamps EN 14420

Hose fittings

MSL



› **Stainless steel V4A**
E-CTFE coated

› **BSP-thread**

› Thread seal: Polytetrafluorethylene (PTFE)

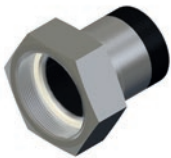
DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	120.130050.12205
19 (3/4")	BSP 3/4"	120.190075.12205
25 (1")	BSP 1"	120.250100.12205
32 (1 1/4")	BSP 1 1/4"	120.320125.12205
38 (1 1/2")	BSP 1 1/2"	120.380150.12205
50 (2")	BSP 2"	120.500200.12205
63/65 (2 1/2")	BSP 2 1/2"	120.650250.12205
75 (3")	BSP 3"	120.750300.12205
100 (4")	BSP 4"	120.100400.12205

DN = Hose inner diameter

Quick couplings

Adapter

MSL



› **Stainless steel V4A**

CF-E-CTFE coated, electrically conductiv

› **BSP-thread**

› Thread seal: Polytetrafluorethylene (PTFE)

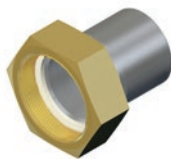
DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	120.130050.12206
19 (3/4")	BSP 3/4"	120.190075.12206
25 (1")	BSP 1"	120.250100.12206
32 (1 1/4")	BSP 1 1/4"	120.320125.12206
38 (1 1/2")	BSP 1 1/2"	120.380150.12206
50 (2")	BSP 2"	120.500200.12206
63/65 (2 1/2")	BSP 2 1/2"	120.650250.12206
75 (3")	BSP 3"	120.750300.12206
100 (4")	BSP 4"	120.100400.12206

DN = Hose inner diameter

Gaskets

Accessories

MSL



› **Stainless steel V4A**

› **Swivel nut: Brass**

› **BSP-thread**

› Thread seal: Polytetrafluorethylene (PTFE)

DN mm (inch)	Thread inch/mm	Item code
19 (3/4")	BSP 1"	120.190100.123
25 (1")	BSP 1"	120.250100.123
25 (1")	BSP 1 1/4"	120.250125.123
32 (1 1/4")	BSP 1 1/4"	120.320125.123
32 (1 1/4")	BSP 1 1/2"	120.320150.123
38 (1 1/2")	BSP 1 1/2"	120.380150.123
38 (1 1/2")	BSP 2"	120.380200.123
50 (2")	BSP 2"	120.500200.123
50 (2")	BSP 2 1/2"	120.500250.123
63/65 (2 1/2")	BSP 2 1/2"	120.650250.123
75 (3")	BSP 3"	120.750300.123

DN = Hose inner diameter

Swivel joints

Modular welding system

Technical annex

1.2.2. Female hose fitting for safety clamps EN 14420

› Stainless steel V4A

› rail car thread (DIN 11)

› Thread seal: Polytetrafluorethylene (PTFE)

DN mm (inch)	Thread inch/mm	Item code
75 (3")	5 1/2" WW	120.750550.522
100 (4")	5 1/2" WW	120.100550.522

DN = Hose inner diameter



Hose fittings

› Stainless steel V4A

› rail car thread (DIN 11)

› Swivel nut: Brass, Aluminium

› Thread seal: Polytetrafluorethylene (PTFE)

DN mm (inch)	Thread inch/mm	Swivel nut	Item code
75 (3")	5 1/2" WW	MS	120.750550.523
100 (4")	5 1/2" WW	MS	120.100550.523
100 (4")	5 1/2" WW	AL	120.100550.524

DN = Hose inner diameter



Quick couplings

Adapter

› Stainless steel V4A

› S-thread

› Thread seal: Fluoro Rubber (FKM)

DN mm (inch)	Thread inch/mm	Item code
25 (1")	S60 x 6	120.250606.10221
38 (1 1/2")	S60 x 6	120.380606.10221
50 (2")	S60 x 6	120.500606.10221

DN = Hose inner diameter



Gaskets

› Stainless steel V4A

› Rd.-thread

› Saw tooth

› Inner surface < Ra 0,8 µm



DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	Rd. 34 x 1/8"	123.130348.622
13 (1/2")	Rd. 44 x 1/6"	123.130446.622
19 (3/4")	Rd. 34 x 1/8"	123.190348.622
19 (3/4")	Rd. 44 x 1/6"	123.190446.622
19 (3/4")	Rd. 52 x 1/6"	123.190526.622
25 (1")	Rd. 52 x 1/6"	123.250526.622
32 (1 1/4")	Rd. 58 x 1/6"	123.320586.622
38 (1 1/2")	Rd. 65 x 1/6"	123.380656.622
50 (2")	Rd. 78 x 1/6"	123.500786.622
63 (2 1/2")	Rd. 95 x 1/6"	123.630956.622
65 (2 1/2")	Rd. 95 x 1/6"	123.650956.622
75 (3")	Rd. 110 x 1/4"	123.750114.622
100 (4")	Rd. 130 x 1/4"	123.100134.622

DN = Hose inner diameter



Accessories

Swivel joints

Modular welding system

Technical annex

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.2. Female hose fitting for safety clamps EN 14420

› Stainless steel V4A

E-CTFE coated

› Saw tooth

› Rd.-thread



MCS



DN mm (inch)	Thread inch/mm	Item code
25 (1")	Rd. 52 x 1/6"	123.250526.62205
38 (1 1/2")	Rd. 65 x 1/6"	123.380656.62205
50 (2")	Rd. 78 x 1/6"	123.500786.62205

DN = Hose inner diameter

› Stainless steel V2A

› Saw tooth

› Rd.-thread

› Inner surface < Ra 0,8 µm



MMS



DN mm (inch)	Thread inch/mm	Item code
19 (3/4")	Rd. 44 x 1/6"	123.190446.666
19 (3/4")	Rd. 52 x 1/6"	123.190526.666
25 (1")	Rd. 52 x 1/6"	123.250526.666
32 (1 1/4")	Rd. 58 x 1/6"	123.320586.666
32 (1 1/4")	Rd. 65 x 1/6"	123.320656.666
38 (1 1/2")	Rd. 65 x 1/6"	123.380656.666
38 (1 1/2")	Rd. 78 x 1/6"	123.380786.666
40 (1 1/2")	Rd. 65 x 1/6"	123.400656.666
50 (2")	Rd. 78 x 1/6"	123.500786.666
50 (2")	Rd. 95 x 1/6"	123.500956.666
63 (2 1/2")	Rd. 95 x 1/6"	123.630956.666
65 (2 1/2")	Rd. 95 x 1/6"	123.650956.666
75 (3")	Rd. 110 x 1/4"	123.750114.666
80 (3")	Rd. 110 x 1/4"	123.800114.666
100 (4")	Rd. 110 x 1/4"	123.100134.666

DN = Hose inner diameter

› Brass

› BSP-thread

› Thread seal: Polyurethane rubber (AU)

MSL



DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	120.130050.133
13 (1/2")	BSP 3/4"	120.130075.133
19 (3/4")	BSP 3/4"	120.190075.133
19 (3/4")	BSP 1"	120.190100.133
25 (1")	BSP 1"	120.250100.133
25 (1")	BSP 1 1/4"	120.250125.133
25 (1")	BSP 1 1/2"	120.250150.133
32 (1 1/4")	BSP 1 1/4"	120.320125.133
32 (1 1/4")	BSP 1 1/2"	120.320150.133
32 (1 1/4")	BSP 2"	120.320200.133
35 (1 3/8")	BSP 1 1/2"	120.350150.133
35 (1 3/8")	BSP 2"	120.350200.133
38 (1 1/2")	BSP 1 1/2"	120.380150.133
38 (1 1/2")	BSP 2"	120.380200.133
40 (1 1/2")	BSP 1 1/2"	120.400150.133
40 (1 1/2")	BSP 2"	120.400200.133

1.2.2. Female hose fitting for safety clamps EN 14420

DN mm (inch)	Thread inch/mm	Item code
45 (1 ¾")	BSP 2"	120.450200.133
50 (2")	BSP 2"	120.500200.133
50 (2")	BSP 2 ½"	120.500250.133
63 (2 ½")	BSP 2 ½"	120.630250.133
63/65 (2 ½")	BSP 2 ½"	120.650250.133
63/65 (2 ½")	BSP 3"	120.650300.133
75 (3")	BSP 3"	120.750300.133
80 (3")	BSP 3"	120.800300.133
100 (4")	BSP 4"	120.100400.133

DN = Hose inner diameter

› Brass tin coated

DN mm (inch)	Thread inch/mm	Item code
19 (¾")	BSP ¾"	120.190075.13303
19 (¾")	BSP 1"	120.190100.13303
25 (1")	BSP 1"	120.250100.13303
25 (1")	BSP 1 ¼"	120.250125.13303
25 (1")	BSP 1 ½"	120.250150.13303
32 (1 ¼")	BSP 1 ¼"	120.320125.13303
32 (1 ¼")	BSP 1 ½"	120.320150.13303
38 (1 ½")	BSP 1 ½"	120.380150.13303
38 (1 ½")	BSP 2"	120.380200.13303
50 (2")	BSP 2"	120.500200.13303
50 (2")	BSP 2 ½"	120.500250.13303
63 (2 ½")	BSP 2 ½"	120.630250.13303
63/65 (2 ½")	BSP 2 ½"	120.650250.13303
75 (3")	BSP 3"	120.750300.13303
100 (4")	BSP 4"	120.100400.13303

DN = Hose inner diameter

› Brass

DN mm (inch)	Thread inch/mm	Item code
13 (½")	BSP ½"	130.130050.133
19 (¾")	BSP ¾"	130.190075.133
25 (1")	BSP 1"	130.250100.133
25 (1")	BSP 1 ½"	130.250150.133
32 (1 ¼")	BSP 1 ¼"	130.320125.133
38 (1 ½")	BSP 1 ½"	130.380150.133
50 (2")	BSP 2"	130.500200.133
63/65 (2 ½")	BSP 2 ½"	130.650250.133
75 (3")	BSP 3"	130.750300.133

DN = Hose inner diameter

› BSP-thread

› Thread seal: Polyurethane rubber (AU)

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1.2.2. Female hose fitting for safety clamps EN 14420

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› Brass

› M-Thread

› conical sealing

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	M22 x 1.5 mm	130.130221.433
19 (3/4")	M30 x 1.5 mm	130.190301.433
25 (1")	M38 x 1.5 mm	130.250381.433
32 (1 1/4")	M45 x 1.5 mm	130.320451.433
38 (1 1/2")	M52 x 1.5 mm	130.380521.433
50 (2")	M65 x 2 mm	130.500652.433
63/65 (2 1/2")	M78 x 2 mm	130.650782.433
75 (3")	M90 x 2 mm	130.750902.433
80 (3")	M100 x 2 mm	130.800102.433

DN = Hose inner diameter

MSL



› Brass

› rail car thread (DIN 11)

› Thread seal: Polyurethane rubber (AU)

DN mm (inch)	Thread inch/mm	Item code
75 (3")	5 1/2" WW	120.750550.533
100 (4")	5 1/2" WW	120.100550.533

DN = Hose inner diameter

MSL



› Brass

› NPS-thread

› Thread seal: Polyurethane rubber (AU)

DN mm (inch)	Thread inch/mm	Item code
25 (1")	NPS 1"	120.250100.733
32 (1 1/4")	NPS 1 1/4"	120.320125.733
32 (1 1/4")	NPS 2"	120.320200.733
38 (1 1/2")	NPS 1 1/2"	120.380150.733
50 (2")	NPS 2"	120.500200.733
63 (2 1/2")	NPS 2 1/2"	120.630250.733
63/65 (2 1/2")	NPS 2 1/2"	120.650250.733
75 (3")	NPS 3"	120.750300.733
100 (4")	NPS 4"	120.100400.733

DN = Hose inner diameter

MSL



› Brass tin coated

› NPS-thread

› Thread seal: Polyurethane rubber (AU)

DN mm (inch)	Thread inch/mm	Item code
38 (1 1/2")	NPS 1 1/2"	120.380150.73303
50 (2")	NPS 2"	120.500200.73303
63/65 (2 1/2")	NPS 2 1/2"	120.650250.73303

DN = Hose inner diameter

1.2.2. Female hose fitting for safety clamps EN 14420

› Steel zinc plated

› BSP-thread

› Thread seal: Polyurethane rubber (AU)

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	120.130050.111
19 (3/4")	BSP 3/4"	120.190075.111
19 (3/4")	BSP 1 1/4"	120.190125.111
25 (1")	BSP 1"	120.250100.111
25 (1")	BSP 1 1/4"	120.250125.111
32 (1 1/4")	BSP 1 1/4"	120.320125.111
38 (1 1/2")	BSP 1 1/2"	120.380150.111
50 (2")	BSP 2"	120.500200.111
75 (3")	BSP 3"	120.750300.111

DN = Hose inner diameter



› Steel zinc plated

› NPT-thread

› fixed thread

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	NPT 1/2"	120.130050.310
19 (3/4")	NPT 3/4"	120.190075.310
19 (3/4")	NPT 1"	120.190100.310
25 (1")	NPT 1"	120.250100.310
32 (1 1/4")	NPT 1"	120.320100.310
32 (1 1/4")	NPT 1 1/4"	120.320125.310
38 (1 1/2")	NPT 1 1/2"	120.380150.310
50 (2")	NPT 2"	120.500200.310
75 (3")	NPT 3"	120.750300.310

DN = Hose inner diameter



› Steel zinc plated

› ACME-thread

› Swivel nut: Brass

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	ACME 1 3/4"	120.130175.013
25 (1")	ACME 1 3/4"	120.250175.013
32 (1 1/4")	ACME 1 3/4"	120.320175.013
32 (1 1/4")	ACME 2 1/4"	120.320225.013
38 (1 1/2")	ACME 2 1/4"	120.380225.013
50 (2")	ACME 3 1/4"	120.500325.013
75 (3")	ACME 3 1/4"	120.750325.013

DN = Hose inner diameter



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1.2.2. Female hose fitting for safety clamps EN 14420

- › Steel zinc plated
- › Swivel nut: misc. materials
- › rail car thread (DIN 11)
- › Thread seal: Polyurethane rubber (AU)

MSL



DN mm (inch)	Thread inch/mm	Swivel nut	Item code
100 (4")	5 1/2" WW	ST	120.100550.511
100 (4")	5 1/2" WW	MS	120.100550.513
100 (4")	5 1/2" WW	AL*	120.100550.514
100 (4")	5 1/2" WW	AL	120.100550.51401

DN = Hose inner diameter

*ribbed swivel nut

- › Aluminium
- › Swivel nut: misc. materials
- › rail car thread (DIN 11)
- › Thread seal: Polyurethane rubber (AU)

MSL



DN mm (inch)	Thread inch/mm	Swivel nut	Item code
75 (3")	5 1/2" WW	AL*	120.750550.544
75 (3")	5 1/2" WW	AL	120.750550.54401
100 (4")	5 1/2" WW	AL*	120.100550.544
100 (4")	5 1/2" WW	AL	120.100550.54401
100 (4")	5 1/2" WW	MS	120.100550.543

DN = Hose inner diameter

*ribbed swivel nut



Supplementary products:
 Safety clamps SC (see page 51)
 Dust plugs BS (see page 117)
 Thread seals GD (see page 135)
 Crimping ferrules PH (see page 53)

1.2.3. Hose fitting for safety clamps with swivel flange EN 14420

One side hose fitting acc. to EN 14420-2 for assembly with safety clamps other side swivel flange.

saw tooth shaped grooves 60° triangular grooves

- › max. operating pressure: 25 bar / 362 PSI, for AL 16 bar / 232 PSI, for PP 10 bar / 145 PSI
- › Operation temperature: -20°C to +65°C

- › Stainless steel V4A
- › 60° triangular grooves (optional)
- › Flange interface: EN PN 40



FSL



Fitting DN mm (inch)	Flange DN ² mm (inch)	Item code	Item code ... R
13 (1/2")	15 (1/2")	953.013000.422	
19 (3/4")	15 (1/2")	953.019000.422	
19 (3/4")	20 (3/4")	953.019015.422	
19 (1")	25 (1")	953.019025.422	
25 (1")	25 (1")	953.025000.422	
32 (1 1/4")	32 (1 1/4")	953.032000.422	
38 (1 1/2")	40 (1 1/2")	953.038000.422	
40 (1 1/2")	40 (1 1/2")	953.040000.422	
50 (2")	50 (2")	953.050000.422	
63 (2 1/2")	65 (2 1/2")	953.063000.422	
65 (2 1/2")	65 (2 1/2")	953.065000.422	
75 (3")	65 (2 1/2")	953.075065.422	
75 (3")	80 (3")	953.075000.422	

1.2.3. Hose fitting for safety clamps with swivel flange EN 14420

Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
80 (3")	80 (3")	953.080000.422
100 (4")	100 (4")	953.100000.422
102 (4")	100 (4")	953.102000.422
125 (5")	125 (5")	953.125000.422

DN = Hose inner diameter
When ordering with grooves state item-# ... + R

DN² = Nominal size flange

› **Stainless steel V4A**

› 60° triangular grooves (optional)

› **Flange interface: EN PN 16**



Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	953.050000.222
63 (2 1/2")	65 (2 1/2")	953.063000.222
65 (2 1/2")	65 (2 1/2")	953.065000.222
75 (3")	65 (2 1/2")	953.075065.222
75 (3")	75 (3")	953.075000.222
80 (3")	80 (3")	953.080000.222
100 (4")	100 (4")	953.100000.222
102 (4")	100 (4")	953.102000.222
125 (5")	125 (5")	953.125000.222
150 (6")	150 (6")	953.150000.222

DN = Hose inner diameter
When ordering with grooves state item-# ... + R

DN² = Nominal size flange

› **Stainless steel V4A**

› 60° triangular grooves (optional)

› **Flange interface: EN PN 10**



Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
For smaller nominal diameters see PN 16		
200 (8")	200 (8")	953.200000.122

DN = Hose inner diameter
When ordering with grooves state item-# ... + R

DN² = Nominal size flange

› **Stainless steel V4A**

E-CTFE coated

› **Flange interface: EN PN 40**

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	953.013000.42205
19 (3/4")	20 (3/4")	953.019000.42205
25 (1")	25 (1")	953.025000.42205
32 (1 1/4")	32 (1 1/4")	953.032000.42205
38 (1 1/2")	40 (1 1/2")	953.038000.42205
50 (2")	50 (2")	953.050000.42205

DN = Hose inner diameter
DN² = Nominal size flange

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› **Stainless steel V4A**
E-CTFE coated

› **Flange interface: EN PN 16**

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	953.050000.22205
65 (2 1/2")	65 (2 1/2")	953.065000.22205
75 (3")	75 (3")	953.075000.22205
100 (4")	100 (4")	953.100000.22205

DN = Hose inner diameter

DN² = Nominal size flange

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› **Stainless steel V4A**
CF-E-CTFE coated, electrically conductive

› **Flange interface: EN PN 40**

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	953.013000.42206
19 (3/4")	20 (3/4")	953.019000.42206
25 (1")	25 (1")	953.025000.42206
32 (1 1/4")	32 (1 1/4")	953.032000.42206
38 (1 1/2")	40 (1 1/2")	953.038000.42206
50 (2")	50 (2")	953.050000.42206

DN = Hose inner diameter

DN² = Nominal size flange

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› **Stainless steel V4A**
CF-E-CTFE coated, electrically conductive

› **Flange interface: EN PN 16**

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	953.050000.22206
65 (2 1/2")	65 (2 1/2")	953.065000.22206
75 (3")	75 (3")	953.075000.22206
100 (4")	100 (4")	953.100000.22206

DN = Hose inner diameter

DN² = Nominal size flange

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› **Stainless steel V4A**
› 60° triangular grooves (optional)

› **Flange interface: ASME 150 PSI**



Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
25 (1")	25 (1")	959.025000.222
32 (1 1/4")	32 (1 1/4")	959.032000.222
38 (1 1/2")	40 (1 1/2")	959.038000.222
40 (1 1/2")	40 (1 1/2")	959.040000.222
50 (2")	50 (2")	959.050000.222
63 (2 1/2")	65 (2 1/2")	959.063000.222
65 (2 1/2")	65 (2 1/2")	959.065000.222
75 (3")	80 (3")	959.075000.222

1.2.3. Hose fitting for safety clamps with swivel flange EN 14420

Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
80 (3")	80 (3")	959.080000.222
100 (4")	100 (4")	959.100000.222
102 (4")	100 (4")	959.102000.222
125 (5")	125 (5")	959.125000.222
150 (6")	150 (6")	959.150000.222

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

› **Stainless steel V4A**

› **Flange interface: ASME 300 PSI**



› 60° triangular grooves (optional)

Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
25 (1")	25 (1")	959.025000.422
32 (1 ¼")	32 (1 ¼")	959.032000.422
38 (1 ½")	38 (1 ½")	959.038000.422
40 (1 ½")	40 (1 ½")	959.040000.422
50 (2")	50 (2")	959.050000.422
63 (2 ½")	65 (2 ½")	959.063000.422
65 (2 ½")	65 (2 ½")	959.065000.422
75 (3")	75 (3")	959.075000.422
100 (4")	100 (4")	959.100000.422
102 (4")	100 (4")	959.102000.422

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

› **Stainless steel V4A**

› **Flange interface: EN PN 40**



› **Swivel flange: Steel zinc plated**

› 60° triangular grooves (optional)

Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
19 (¾")	20 (¾")	953.019000.421
25 (1")	25 (1")	953.025000.421
32 (1 ¼")	32 (1 ¼")	953.032000.421
38 (1 ½")	40 (1 ½")	953.038000.421
40 (1 ½")	40 (1 ½")	953.040000.421
50 (2")	50 (2")	953.050000.421
63 (2 ½")	65 (2 ½")	953.063000.421
65 (2 ½")	65 (2 ½")	953.065000.421
75 (3")	80 (3")	953.075000.421
100 (4")	100 (4")	953.100000.421
102 (4")	100 (4")	953.102000.421
125 (5")	125 (5")	953.125000.421

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

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- › Stainless steel V4A
- › Swivel flange: Steel zinc plated
- › 60° triangular grooves (optional)

› Flange interface: EN PN 16



Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	953.050000.221
63 (2 1/2")	65 (2 1/2")	953.063000.221
65 (2 1/2")	65 (2 1/2")	953.065000.221
75 (3")	80 (3")	953.075000.221
80 (3")	80 (3")	953.080000.221
100 (4")	100 (4")	953.100000.221
125 (5")	125 (5")	953.125000.221
150 (6")	150 (6")	953.150000.221

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

- › Stainless steel V4A
- › Swivel flange: Steel zinc plated
- › 60° triangular grooves (optional)

› Flange interface: EN PN 10



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Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
For smaller nominal diameters see PN 16		
200 (8")	200 (8")	953.200000.121

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

- › Stainless steel V4A
- › Swivel flange: Steel zinc plated
- › 60° triangular grooves (optional)

› Flange interface: ASME 150 PSI



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Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
50 (2")	50 (2")	959.050000.221
63 (2 1/2")	65 (2 1/2")	959.063000.221
65 (2 1/2")	65 (2 1/2")	959.065000.221
75 (3")	75 (3")	959.075000.221
80 (3")	80 (3")	959.080000.221

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

1.2.3. Hose fitting for safety clamps with swivel flange EN 14420

› Steel zinc plated

› Flange interface: EN PN 40

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	953.013000.411
19 (3/4")	20 (3/4")	953.019000.411
25 (1")	25 (1")	953.025000.411
32 (1 1/4")	32 (1 1/4")	953.032000.411
38 (1 1/2")	40 (1 1/2")	953.038000.411
40 (1 1/2")	40 (1 1/2")	953.040000.411
50 (2")	50 (2")	953.050000.411
63 (2 1/2")	65 (2 1/2")	953.063000.411
65 (2 1/2")	65 (2 1/2")	953.065000.411
75 (3")	80 (3")	953.075000.411
80 (3")	80 (3")	953.080000.411
100 (4")	100 (4")	953.100000.411
125 (5")	125 (5")	953.125000.411

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.



FSL

› Steel zinc plated

› Flange interface: EN PN 16

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	953.050000.211
63 (2 1/2")	65 (2 1/2")	953.063000.211
65 (2 1/2")	65 (2 1/2")	953.065000.211
75 (3")	80 (3")	953.075000.211
80 (3")	80 (3")	953.080000.211
100 (4")	100 (4")	953.100000.211
102 (4")	100 (4")	953.102000.211
125 (5")	125 (5")	953.125000.211
150 (6")	150 (6")	953.150000.211
152 (6")	150 (6")	953.152000.211
200 (8")	200 (8")	953.200000.211
203 (8")	200 (8")	953.203000.211

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.



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› Steel zinc plated

› Flange interface: EN PN 10

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 16		
200 (8")	200 (8")	953.200000.111
203 (8")	200 (8")	953.203000.111

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.



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› Steel zinc plated

› Flange interface: ASME 150 PSI

Fitting DN mm (inch)	Flange DN ² mm (inch)	Item code
25 (1")	25 (1")	959.025000.211
32 (1 ¼")	32 (1 ¼")	959.032000.211
38 (1 ½")	40 (1 ½")	959.038000.211
40 (1 ½")	40 (1 ½")	959.040000.211
50 (2")	50 (2")	959.050000.211
63 (2 ½")	65 (2 ½")	959.063000.211
65 (2 ½")	65 (2 ½")	959.065000.211
75 (3")	80 (3")	959.075000.211
80 (3")	80 (3")	959.080000.211
100 (4")	100 (4")	959.100000.211
102 (4")	100 (4")	959.102000.211
125 (5")	125 (5")	959.125000.211
150 (6")	150 (6")	959.150000.211
152 (6")	150 (6")	959.152000.211
200 (8")	200 (8")	959.200000.211

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

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› Steel zinc plated

› Flange interface: ASME 300 PSI

Fitting DN mm (inch)	Flange DN ² mm (inch)	Item code
25 (1")	25 (1")	959.025000.411
38 (1 ½")	40 (1 ½")	959.038000.411
40 (1 ½")	40 (1 ½")	959.040000.411
50 (2")	50 (2")	959.050000.411
63 (2 ½")	65 (2 ½")	959.063000.411
65 (2 ½")	65 (2 ½")	959.065000.411
75 (3")	80 (3")	959.075000.411
100 (4")	100 (4")	959.100000.411
125 (5")	125 (5")	959.125000.411

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

› Aluminium

› Flange interface: EN PN 16

› Swivel flange: Steel zinc plated

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Fitting DN mm (inch)	Flange DN ² mm (inch)	Item code
65 (2 ½")	65 (2 ½")	953.065000.241
75 (3")	80 (3")	953.075000.241
100 (4")	100 (4")	953.100000.241
150 (6")	150 (6")	953.150000.241

DN = Hose inner diameter

DN² = Nominal size flange

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

1.2.3. Hose fitting for safety clamps with swivel flange EN 14420

› Polypropylene

› Flange interface: EN PN 10



› 60° triangular grooves (optional)

Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
25 (1")	25 (1")	953.025000.155
32 (1 ¼")	32 (1 ¼")	953.032000.155
38 (1 ½")	40 (1 ½")	953.038000.155
40 (1 ½")	40 (1 ½")	953.040000.155
50 (2")	50 (2")	953.050000.155
65 (2 ½")	65 (2 ½")	953.065000.155
75 (3")	80 (3")	953.075000.155
80 (3")	80 (3")	953.080000.155
100 (4")	100 (4")	953.100000.155

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R



FSL

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

› Polypropylene

› Flange interface: EN PN 10



› Swivel flange: Steel zinc plated

› 60° triangular grooves (optional)

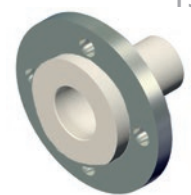
Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
25 (1")	25 (1")	953.025000.151
32 (1 ¼")	32 (1 ¼")	953.032000.151
38 (1 ½")	40 (1 ½")	953.038000.151
40 (1 ½")	40 (1 ½")	953.040000.151
50 (2")	50 (2")	953.050000.151
65 (2 ½")	65 (2 ½")	953.065000.151
75 (3")	80 (3")	953.075000.151
80 (3")	80 (3")	953.080000.151
100 (4")	100 (4")	953.100000.151

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.



FSL



Supplementary products:

Safety clamps SC (see page 51)

Crimping ferrules PH (see page 53)

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.4. Hose fitting for safety clamps with fixed flange EN 14420

One side hose fitting acc. to EN 14420-2 for assembly with safety clamps other side fixed flange.

saw tooth shaped grooves 60° triangular grooves

- › max. operating pressure: 25 bar / 362 PSI, for AL 16 bar / 232 PSI, for PP 10 bar / 145 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› 60° triangular grooves (optional)

› Flange interface: EN PN 40



FSL



Fitting	Flange	Item code	Item code ... R
DN mm (inch)	DN ² mm (inch)		
13 (1/2")	15 (1/2")	963.013000.420	
19 (3/4")	20 (3/4")	963.019000.420	
25 (1")	25 (1")	963.025000.420	
38 (1 1/2")	40 (1 1/2")	963.038000.420	
40 (1 1/2")	40 (1 1/2")	963.040000.420	
50 (2")	50 (2")	963.050000.420	
63 (2 1/2")	65 (2 1/2")	963.063000.420	
65 (2 1/2")	65 (2 1/2")	963.065000.420	
75 (3")	65 (2 1/2")	963.075065.420	
75 (3")	80 (3")	963.075000.420	
80 (3")	80 (3")	963.080000.420	
100 (4")	100 (4")	963.100000.420	
102 (4")	100 (4")	963.102000.420	
125 (5")	125 (5")	963.125000.420	
150 (6")	150 (6")	963.150000.420	
152 (6")	150 (6")	963.152000.420	

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

› Stainless steel V4A

› 60° triangular grooves (optional)

› Flange interface: EN PN 16



FSL



Fitting	Flange	Item code	Item code ... R
DN mm (inch)	DN ² mm (inch)		
For smaller nominal diameters see PN 40			
50 (2")	50 (2")	963.050000.220	
63 (2 1/2")	65 (2 1/2")	963.063000.220	
65 (2 1/2")	65 (2 1/2")	963.065000.220	
75 (3")	65 (2 1/2")	963.075065.220	
75 (3")	80 (3")	963.075000.220	
80 (3")	80 (3")	963.080000.220	
100 (4")	100 (4")	963.100000.220	
102 (4")	102 (4")	963.102000.220	
125 (5")	125 (5")	963.125000.220	
150 (6")	150 (6")	963.150000.220	

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

1.2.4. Hose fitting for safety clamps with fixed flange EN 14420

› Stainless steel V4A

› Flange interface: EN PN 10



› 60° triangular grooves (optional)

Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code

For smaller nominal diameters see PN 16

200 (8")	200 (8")	963.200000.120
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DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R



FSL

› Stainless steel V4A

E-CTFE coated

› Flange interface: EN PN 40

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	Item code

13 (1/2")	15 (1/2")	963.013000.42005
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19 (3/4")	20 (3/4")	963.019000.42005
-----------	-----------	------------------

25 (1")	25 (1")	963.025000.42005
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32 (1 1/4")	32 (1 1/4")	963.032000.42005
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38 (1 1/2")	40 (1 1/2")	963.038000.42005
-------------	-------------	------------------

50 (2")	50 (2")	963.050000.42005
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DN = Hose inner diameter

DN² = Nominal size flange



FSL

› Stainless steel V4A

E-CTFE coated

› Flange interface: EN PN 16

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	Item code

For smaller nominal diameters see PN 40

50 (2")	50 (2")	963.050000.22005
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65 (2 1/2")	65 (2 1/2")	963.065000.22005
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75 (3")	80 (3")	963.075000.22005
---------	---------	------------------

100 (4")	100 (4")	963.100000.22005
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DN = Hose inner diameter

DN² = Nominal size flange



FSL

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

› Flange interface: EN PN 40

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	Item code

13 (1/2")	15 (1/2")	963.013000.42006
-----------	-----------	------------------

19 (3/4")	20 (3/4")	963.019000.42006
-----------	-----------	------------------

25 (1")	25 (1")	963.025000.42006
---------	---------	------------------

32 (1 1/4")	32 (1 1/4")	963.032000.42006
-------------	-------------	------------------

38 (1 1/2")	40 (1 1/2")	963.038000.42006
-------------	-------------	------------------

50 (2")	50 (2")	963.050000.42006
---------	---------	------------------

DN = Hose inner diameter

DN² = Nominal size flange



FSL

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.4. Hose fitting for safety clamps with fixed flange EN 14420

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

› Flange interface: EN PN 16

FSL



Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	963.050000.22006
65 (2 1/2")	65 (2 1/2")	963.065000.22006
75 (3")	80 (3")	963.075000.22006
100 (4")	100 (4")	963.100000.22006

DN = Hose inner diameter

DN² = Nominal size flange

› Stainless steel V4A

› 60° triangular grooves (optional)

› Flange interface: ASME 150 PSI



FSL



Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	974.013000.220
19 (3/4")	20 (3/4")	974.019000.220
25 (1")	25 (1")	974.025000.220
32 (1 1/4")	32 (1 1/4")	974.032000.220
38 (1 1/2")	40 (1 1/2")	974.038000.220
40 (1 1/2")	40 (1 1/2")	974.040000.220
50 (2")	50 (2")	974.050000.220
63 (2 1/2")	65 (2 1/2")	974.063000.220
65 (2 1/2")	65 (2 1/2")	974.065000.220
75 (3")	80 (3")	974.075000.220
80 (3")	80 (3")	974.080000.220
100 (4")	100 (4")	974.100000.220
102 (4")	100 (4")	974.102000.220
125 (5")	125 (5")	974.125000.220
127 (5")	125 (5")	974.127000.220
150 (6")	150 (6")	974.150000.220
152 (6")	150 (6")	974.152000.220
200 (8")	200 (8")	974.200000.220
203 (8")	200 (8")	974.203000.220

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

› Stainless steel V4A

› 60° triangular grooves (optional)

› Flange interface: ASME 300 PSI



FSL



Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	974.013000.420
19 (3/4")	20 (3/4")	974.019000.420
25 (1")	25 (1")	974.025000.420
32 (1 1/4")	32 (1 1/4")	974.032000.420
38 (1 1/2")	40 (1 1/2")	974.038000.420
50 (2")	50 (2")	974.050000.420
63 (2 1/2")	65 (2 1/2")	974.063000.420

1.2.4. Hose fitting for safety clamps with fixed flange EN 14420

Fitting	Flange	Item code ... R
DN mm (inch)	DN ² mm (inch)	Item code
65 (2 1/2")	65 (2 1/2")	974.065000.420
75 (3")	75 (3")	974.075000.420
100 (4")	100 (4")	974.100000.420
102 (4")	100 (4")	974.102000.420
125 (5")	125 (5")	974.125000.420
127 (5")	125 (5")	974.127000.420
150 (6")	150 (6")	974.150000.420
152 (6")	150 (6")	974.152000.420
200 (8")	200 (8")	974.200000.420
203 (8")	200 (8")	974.203000.420

DN = Hose inner diameter

DN² = Nominal size flange

When ordering with grooves state item-# ... + R

› Steel zinc plated

› Flange interface: EN PN 40

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	963.013000.410
19 (3/4")	20 (3/4")	963.019000.410
25 (1")	25 (1")	963.025000.410
32 (1 1/4")	32 (1 1/4")	963.032000.410
38 (1 1/2")	40 (1 1/2")	963.038000.410
40 (1 1/2")	40 (1 1/2")	963.040000.410
50 (2")	50 (2")	963.050000.410
63 (2 1/2")	65 (2 1/2")	963.063000.410
65 (2 1/2")	65 (2 1/2")	963.065000.410
75 (3")	80 (3")	963.075000.410
80 (3")	80 (3")	963.080000.410
100 (4")	100 (4")	963.100000.410
102 (4")	100 (4")	963.102000.410
125 (5")	125 (5")	963.125000.410
150 (6")	150 (6")	963.150000.410
152 (6")	150 (6")	963.152000.410
200 (8")	200 (8")	963.200000.410
203 (8")	200 (8")	963.203000.410

DN = Hose inner diameter

DN² = Nominal size flange

› Steel zinc plated

› Flange interface: EN PN 16

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	Item code
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	963.050000.210
63 (2 1/2")	65 (2 1/2")	963.063000.210
65 (2 1/2")	65 (2 1/2")	963.065000.210
75 (3")	80 (3")	963.075000.210
80 (3")	80 (3")	963.080000.210
100 (4")	100 (4")	963.100000.210
125 (5")	125 (5")	963.125000.210



FSL

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.4. Hose fitting for safety clamps with fixed flange EN 14420

FSL		
Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
150 (6")	150 (6")	963.150000.210
152 (6")	150 (6")	963.152000.210
200 (8")	200 (8")	963.200000.210
203 (8")	200 (8")	963.203000.210

DN = Hose inner diameter DN² = Nominal size flange

› Steel zinc plated

› Flange interface: EN PN 10

FSL		
Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
For smaller nominal diameters see PN 16		
200 (8")	200 (8")	963.200000.110
203 (8")	200 (8")	963.203000.110

DN = Hose inner diameter DN² = Nominal size flange



› Steel zinc plated

› Flange interface: ASME 150 PSI

FSL		
Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	974.013000.210
19 (3/4")	20 (3/4")	974.019000.210
25 (1")	25 (1")	974.025000.210
32 (1 1/4")	32 (1 1/4")	974.032000.210
38 (1 1/2")	40 (1 1/2")	974.038000.210
40 (1 1/2")	40 (1 1/2")	974.040000.210
50 (2")	50 (2")	974.050000.210
63 (2 1/2")	65 (2 1/2")	974.063000.210
65 (2 1/2")	65 (2 1/2")	974.065000.210
75 (3")	80 (3")	974.075000.210
80 (3")	80 (3")	974.080000.210
100 (4")	100 (4")	974.100000.210
102 (4")	100 (4")	974.102000.210
125 (5")	125 (5")	974.125000.210
127 (5")	125 (5")	974.127000.210
150 (6")	150 (6")	974.150000.210
152 (6")	150 (6")	974.152000.210
200 (8")	200 (8")	974.200000.210
203 (8")	200 (8")	974.203000.210

DN = Hose inner diameter DN² = Nominal size flange



› Steel zinc plated

› Flange interface: ASME 300 PSI

FSL		
Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	974.013000.410
19 (3/4")	20 (3/4")	974.019000.410
25 (1")	25 (1")	974.025000.410
32 (1 1/4")	32 (1 1/4")	974.032000.410



1.2.4. Hose fitting for safety clamps with fixed flange EN 14420

Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
38 (1 ½")	40 (1 ½")	974.038000.410
50 (2")	50 (2")	974.050000.410
63 (2 ½")	65 (2 ½")	974.063000.410
65 (2 ½")	65 (2 ½")	974.065000.410
75 (3")	80 (3")	974.075000.410
100 (4")	100 (4")	974.100000.410
102 (4")	100 (4")	974.102000.410
125 (5")	125 (5")	974.125000.410
127 (5")	125 (5")	974.127000.410
150 (6")	150 (6")	974.150000.410
152 (6")	150 (6")	974.152000.410
200 (8")	200 (8")	974.200000.410
203 (8")	200 (8")	974.203000.410

DN = Hose inner diameter

DN² = Nominal size flange



Supplementary products:
Safety clamps SC (see page 51)

1.2.5. Hose fitting for safety clamps with welding end EN 14420

One side hose fitting acc. to EN 14420-2 for assembly with safety clamps other side welding end ISO 1127 row 1 or 2 as well as EN 10357 (series A).

- › max. operating pressure: 25 bar / 362 PSI
- › Operation temperature: -20°C to +65°C

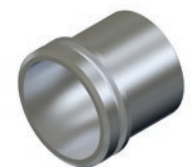
› Stainless steel V4A

› ISO 1127 row 1



› 60° triangular grooves (optional)

DN mm (inch)	Welding end mm	Item code	Item code ... R
13 (½")	21,3 x 2,0	949.013000.02030	
19 (¾")	26,9 x 2,3	949.019000.02030	
19 (¾")	33,7 x 2,6	949.019025.02030	
25 (1")	26,9 x 2,3	949.025019.02030	
25 (1")	33,7 x 2,6	949.025000.02030	
32 (1 ¼")	42,4 x 2,6	949.032000.02030	
38 (1 ½")	48,3 x 2,6	949.038000.02030	
40 (1 ½")	48,3 x 2,6	949.040000.02030	
50 (2")	60,3 x 2,9	949.050000.02030	
63 (2 ½")	76,1 x 2,9	949.063000.02030	
65 (2 ½")	76,1 x 2,9	949.065000.02030	
75 (3")	76,1 x 2,9	949.075065.02030	
75 (3")	88,9 x 3,2	949.075000.02030	
80 (3")	88,9 x 3,2	949.080000.02030	
100 (4")	114,3 x 3,6	949.100000.02030	
102 (4")	114,3 x 3,6	949.102000.02030	
125 (5")	139,7 x 4,0	949.125000.02030	
150 (6")	168,3 x 4,5	949.150000.02030	




ASL

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.5. Hose fitting for safety clamps with welding end EN 14420

ASL			Item code ... R
DN mm (inch)	Welding end mm	Item code	
200 (8")	219,1 x 5,9	949.200000.02030	
203 (8")	219,1 x 5,9	949.203000.02030	

DN = Hose inner diameter When ordering with grooves state item-# ... + R

- › **Stainless steel V4A** › ISO 1127 row 2
- › 60° triangular grooves (optional) 

ASL			Item code ... R
DN mm (inch)	Welding end mm	Item code	
13 (1/2")	20 x 5	949.013000.020	
19 (3/4")	25 x 5	949.019000.020	
25 (1")	30 x 5,0	949.025000.020	
32 (1 1/4")	38 x 5,5	949.032000.020	
38 (1 1/2")	44,5 x 6	949.038000.020	
50 (2")	57 x 6,5	949.050000.020	
63 (2 1/2")	76 x 8,8	949.063000.020	
65 (2 1/2")	76 x 8,8	949.065000.020	
75 (3")	89 x 10	949.075000.020	
100 (4")	108 x 7,1	949.100000.020	
125 (5")	133 x 8	949.125000.020	
150 (6")	159 x 10	949.150000.020	

DN = Hose inner diameter When ordering with grooves state item-# ... + R

- › **Stainless steel V4A** › DIN EN 10357 (Series A, Surface quality CC, Ra < 0,8 µm)
- › Saw tooth 

ASL			Item code
DN mm (inch)	Welding end mm	Item code	
13 (1/2")	19 x 1,5	949.013000.02031	
19 (3/4")	23 x 1,5	949.019000.02031	
25 (1")	29 x 1,5	949.025000.02031	
32 (1 1/4")	35 x 1,5	949.032000.02031	
38 (1 1/2")	41 x 1,5	949.038000.02031	
40 (1 1/2")	41 x 1,5	949.040000.02031	
50 (2")	53 x 1,5	949.050000.02031	
63 (2 1/2")	70 x 2	949.063000.02031	
65 (2 1/2")	70 x 2	949.065000.02031	
75 (3")	85 x 2	949.075000.02031	
100 (4")	104 x 2	949.100000.02031	

DN = Hose inner diameter

- › **Steel** › ISO 1127 row 1

ASL			Item code
DN mm (inch)	Welding end mm	Item code	
13 (1/2")	21,3 x 2,0	949.013000.01030	
19 (3/4")	26,9 x 2,3	949.019000.01030	
19 (3/4")	33,7 x 2,6	949.019025.01030	
25 (1")	33,7 x 2,6	949.025000.01030	

1.2.5. Hose fitting for safety clamps with welding end EN 14420

DN mm (inch)	Welding end mm	Item code
32 (1 ¼")	42,4 x 2,6	949.032000.01030
38 (1 ½")	48,3 x 2,6	949.038000.01030
40 (1 ½")	48,3 x 2,6	949.040000.01030
50 (2")	60,3 x 2,9	949.050000.01030
63 (2 ½")	76,1 x 2,9	949.063000.01030
65 (2 ½")	76,1 x 2,9	949.065000.01030
75 (3")	76,1 x 2,9	949.075065.01030
75 (3")	88,9 x 3,2	949.075000.01030
80 (3")	88,9 x 3,2	949.080000.01030
100 (4")	114,3 x 3,6	949.100000.01030
102 (4")	114,3 x 3,6	949.102000.01030
125 (5")	139,7 x 4,0	949.125000.01030
127 (5")	139,7 x 4,0	949.127000.01030
150 (6")	168,3 x 4,5	949.150000.01030
152 (6")	168,3 x 4,5	949.152000.01030
200 (8")	219,1 x 5,9	949.200000.01030
203 (8")	219,1 x 5,9	949.203000.01030

DN = Hose inner diameter

› Steel

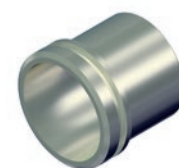
› ISO 1127 row 2

DN mm (inch)	Welding end mm	Item code
13 (½")	20 x 5	949.013000.010
19 (¾")	25 x 5	949.019000.010
25 (1")	30 x 5,0	949.025000.010
32 (1 ¼")	38 x 5,5	949.032000.010
38 (1 ½")	44,5 x 6	949.038000.010
50 (2")	57 x 6,5	949.050000.010
65 (2 ½")	76 x 8,8	949.065000.010
75 (3")	89 x 10	949.075000.010
80 (3")	89 x 7,1	949.080000.010
100 (4")	108 x 7,1	949.100000.010
125 (5")	133 x 8	949.125000.010
150 (6")	159 x 10	949.150000.010

DN = Hose inner diameter



Supplementary products:
Safety clamps SC (see page 51)
Crimping ferrules PH (see page 53)



ASL

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.6. Hose fitting for safety clamps with clamp connection

One side hose fitting acc. to EN 14420-2 for assembly with safety clamps other side clamp connection
DIN 32676 row A.

saw tooth shaped grooves 60° triangular grooves

- › max. operating pressure: 25 bar / 362 PSI
- › Operation temperature: -20°C to +65°C

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

SVC



› Stainless steel V4A

› Saw tooth

- › Outer surface < Ra 1,6 µm
- › Inner surface < Ra 0,8 µm



DN mm (inch)	Flange outer diameter in mm	Row	Item code
13 (1/2")	34	A	372.130034.020
13 (1/2")	50,5	A	372.130051.020
19 (3/4")	34	A	372.190034.020
19 (3/4")	50,5	A	372.190051.020
25 (1")	50,5	A	372.250051.020
32 (1 1/4")	50,5	A	372.320051.020
38 (1 1/2")	50,5	A	372.380051.020
38 (1 1/2")	64	A	372.380064.020
50 (2")	64	A	372.500064.020
63 (2 1/2")	91	A	372.630091.020

DN = Hose inner diameter

SVC



› Stainless steel V4A

› Saw tooth

- › Outer surface < Ra 1,6 µm
- › Inner surface < Ra 0,8 µm



DN mm (inch)	Flange outer diameter in mm	Row	Item code
13 (1/2")	50,5	B	372.130051.02020
19 (3/4")	50,5	B	372.190051.02020
25 (1")	50,5	B	372.250051.02020
32 (1 1/4")	64	B	372.320064.02020
38 (1 1/2")	64	B	372.380064.02020
50 (2")	77,5	B	372.500078.02020
63 (2 1/2")	91	B	372.630091.02020

DN = Hose inner diameter

SVC



› Stainless steel V4A

› Saw tooth

- › Outer surface < Ra 1,6 µm
- › Inner surface < Ra 0,8 µm



DN mm (inch)	Flange outer diameter in mm	Row	Item code
19 (3/4")	25	C	372.190025.02040
25 (1")	50,5	C	372.250051.02040
38 (1 1/2")	50,5	C	372.380051.02040
50 (2")	64	A	372.500064.02040
63 (2 1/2")	77,5	C	372.630078.02040

DN = Hose inner diameter

1.2.6. Hose fitting for safety clamps with clamp connection

› Stainless steel V2A

DN mm (inch)	Flange outer diameter in mm	Item code
10-20 (3/8 - 3/4")	34	369.020000.600
25-40 (1 - 1 1/2")	50,5	369.040000.600
50 (2")	64	369.050000.600
65 (2 1/2")	91	369.065000.600

DN = Hose inner diameter



SVC



Supplementary products:
Safety clamps SC (see page 51)
Crimping ferrules PH (see page 53)

1.2.7. Hose fitting with aseptic connection

One side hose fitting acc. to EN 14420-2 for assembly with safety clamps other side aseptic connection DIN 11864-1 Form A with rotatable swivel nut.

- › max. operating pressure: 25 bar / 362 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› 60° triangular grooves (optional)

- › Outer surface < Ra 1,6 µm
- › Inner surface < Ra 0,8 µm



DN mm (inch)	Thread inch/mm	Item code	Item code ... R
13 (1/2")	Rd. 34 x 1/8"	377.130348.622	
19 (3/4")	Rd. 44 x 1/6"	377.190446.622	
25 (1")	Rd. 52 x 1/6"	377.250526.622	
32 (1 1/4")	Rd. 58 x 1/6"	377.320586.622	
38 (1 1/2")	Rd. 65 x 1/6"	377.380656.622	
50 (2")	Rd. 78 x 1/6"	377.500786.622	

DN = Hose inner diameter

When ordering with grooves state item-# ... + R



SVA



Supplementary products:
Safety clamps SC (see page 51)
Crimping ferrules PH (see page 53)

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.8. Hose fitting for safety clamps with tank truck coupling

One side hose fitting acc. to EN 14420-2 for assembly with safety clamps other side tank truck coupling acc. to EN 14420-6.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

- › 60° triangular grooves (optional)

- › Screwed version (of VK and VSL)

- › Thread seal: Polytetrafluorethylene (PTFE)



VKS



DN mm (inch)	AN mm (inch)	Item code	Item code ... R
32 (1 ¼")	VK 50	833.320200.020	
38 (1 ½")	VK 50	833.380200.020	
50 (2")	VK 50	833.500200.020	
65 (2 ½")	VK 80	833.650300.020	
75 (3")	VK 80	833.750300.020	
80 (3")	VK 80	833.800300.020	
100 (4")	VK 100	833.100400.020	

DN = Hose inner diameter

AN = Connection size (coupling size)

When ordering with grooves state item-# ... + R

› Stainless steel V4A

- › one-piece

VKS



DN mm (inch)	AN mm (inch)	Item code
50 (2")	VK 50	833.500000.020
75 (3")	VK 80	833.750000.020

DN = Hose inner diameter

AN = Connection size (coupling size)

› Stainless steel V4A

E-CTFE coated

- › one-piece

VKS



DN mm (inch)	AN mm (inch)	Item code
75 (3")	VKS 80	833.750000.02005

DN = Hose inner diameter

AN = Connection size (coupling size)

› Brass

- › Screwed version (of VK and VSL)

- › Thread seal: Polyurethane rubber (AU)

VKS



DN mm (inch)	AN mm (inch)	Item code
32 (1 ¼")	VK 50	833.320200.030
38 (1 ½")	VK 50	833.380200.030
50 (2")	VK 50	833.500200.030
65 (2 ½")	VK 80	833.650300.030
75 (3")	VK 80	833.750300.030
80 (3")	VK 80	833.800300.030
100 (4")	VK 100	833.100400.030

DN = Hose inner diameter

AN = Connection size (coupling size)

1.2.8. Hose fitting for safety clamps with tank truck coupling

› Brass

› one-piece

DN mm (inch)	AN mm (inch)	Item code
50 (2")	VK 50	833.500000.030
75 (3")	VK 80	833.750000.030

DN = Hose inner diameter

AN = Connection size (coupling size)



› Aluminium

› Screwed version (of VK and VSL)

› Thread seal: Polyurethane rubber (AU)

DN mm (inch)	AN mm (inch)	Item code		
75 (3")	VK 80	833.750300.040	54,80	49,30

DN = Hose inner diameter

AN = Connection size (coupling size)



› Stainless steel V4A

› Screwed version (of MK and VSL)

› 60° triangular grooves (optional)

› Thread seal: Polytetrafluorethylene (PTFE)

› Coupling seal: chlorosulfonated polyethylene (CSPE)



DN mm (inch)	AN mm (inch)	KD	Item code	Item code ... R
32 (1 ¼")	MK 50	GSD	832.320200.022	
38 (1 ½")	MK 50	GSD	832.380200.022	
50 (2")	MK 50	GSD	832.500200.022	
65 (2 ½")	MK 80	GSD	832.650300.022	
75 (3")	MK 80	GSD	832.750300.022	
80 (3")	MK 80	GSD	832.800300.022	
100 (4")	MK 100	TWO	832.100400.022	

DN = Hose inner diameter

KD = Coupling seal type

AN = Connection size (coupling size)

When ordering with grooves state item-# ... + R



› Stainless steel V4A

› one-piece

› Coupling seal: chlorosulfonated polyethylene (CSPE)

DN mm (inch)	AN mm (inch)	KD	Item code
50 (2")	MK 50	GSD	832.500000.020
75 (3")	MK 80	GSD	832.750000.020

DN = Hose inner diameter

KD = Coupling seal type

AN = Connection size (coupling size)



› Stainless steel V4A

› one-piece

› Coupling seal: chlorosulfonated polyethylene (CSPE)

DN mm (inch)	AN mm (inch)	KD	Item code
50 (2")	MKS 50	TWF	832.500000.02005
75 (3")	MKS 80	TWF	832.750000.02005

DN = Hose inner diameter

KD = Coupling seal type

AN = Connection size (coupling size)



1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.8. Hose fitting for safety clamps with tank truck coupling

› Brass

- › Screwed version (of MK and VSL)
- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

MKS



DN mm (inch)	AN mm (inch)	KD	Item code
32 (1 1/4")	MK 50	GSD	832.320200.033
38 (1 1/2")	MK 50	GSD	832.380200.033
50 (2")	MK 50	GSD	832.500200.033
65 (2 1/2")	MK 80	GSD	832.650300.033
75 (3")	MK 80	GSD	832.750300.033
80 (3")	MK 80	GSD	832.800300.033
100 (4")	MK 100	TWO	832.100400.033

DN = Hose inner diameter

AN = Connection size (coupling size)

KD = Coupling seal type

› Brass

- › one-piece
- › Coupling seal: Nitrile butadiene rubber (NBR)

MKS



DN mm (inch)	AN mm (inch)	KD	Item code
50 (2")	MK 50	GSD	832.500000.030
80 (3")	MK 80	GSD	832.750000.030

DN = Hose inner diameter

AN = Connection size (coupling size)

KD = Coupling seal type

› Aluminium

- › Screwed version (of MK and VSL)
- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

MKS



DN mm (inch)	AN mm (inch)	KD	Item code
75 (3")	MK 80	TWF	832.750300.044

DN = Hose inner diameter

AN = Connection size (coupling size)

KD = Coupling seal type



Supplementary products:

Safety clamps SC (see page 51)

Tank truck sealngs GSD, TWF (see page 139)

Protection rings for male tank truck coupling KSR (see page 81)

1.2.9. Hose fitting for safety clamps with camlock coupling

One side hose fitting acc. to EN 14420-2 for assembly with safety clamps other side camlock coupling acc. to EN 14420-7.

- › max. operating pressure: 6 bar / 232 PSI, for PP 6 bar / 87 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› Connector type: male coupling



› 60° triangular grooves (optional)

DN mm (inch)	AN mm (inch)	Item code	Item code ... R
13 (1/2")	13 (1/2")	868.130050.200	
19 (3/4")	19 (3/4")	868.190075.200	
25 (1")	25 (1")	868.250100.200	
32 (1 1/4")	32 (1 1/4")	868.320125.200	
38 (1 1/2")	38 (1 1/2")	868.380150.200	
50 (2")	50 (2")	868.500200.200	
63/65 (2 1/2")	65 (2 1/2")	868.650250.200	
75 (3")	75 (3")	868.750300.200	
100 (4")	100 (4")	868.100400.200	

DN = Hose inner diameter

AN = Connection size (coupling size)

When ordering with grooves state item-# ... + R



› Stainless steel V4A

› Connector type: male coupling

E-CTFE coated

DN mm (inch)	AN mm (inch)	Item code
25 (1")	25 (1")	868.250100.20005
38 (1 1/2")	38 (1 1/2")	868.380150.20005
50 (2")	50 (2")	868.500200.20005
63/65 (2 1/2")	65 (2 1/2")	868.650250.20005
75 (3")	75 (3")	868.750300.20005

DN = Hose inner diameter

AN = Connection size (coupling size)



› Stainless steel V4A

› Connector type: male coupling

CF-E-CTFE coated, electrically conductiv

DN mm (inch)	AN mm (inch)	Item code
25 (1")	25 (1")	868.250100.20006
38 (1 1/2")	38 (1 1/2")	868.380150.20006
50 (2")	50 (2")	868.500200.20006
63/65 (2 1/2")	65 (2 1/2")	868.650250.20006
75 (3")	75 (3")	868.750300.20006

DN = Hose inner diameter

AN = Connection size (coupling size)



› Brass

› Connector type: male coupling

DN mm (inch)	AN mm (inch)	Item code
13 (1/2")	13 (1/2")	868.130050.300
19 (3/4")	19 (3/4")	868.190075.300
25 (1")	25 (1")	868.250100.300



1.2.9. Hose fitting for safety clamps with camlock coupling

› Stainless steel V4A

E-CTFE coated

- › Connector type: female coupling
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

DN mm (inch)	AN mm (inch)	Item code
13 (1/2")	13 (1/2")	871.130050.20005
19 (3/4")	19 (3/4")	871.190075.20005
25 (1")	25 (1")	871.250100.20005
32 (1 1/4")	32 (1 1/4")	871.320125.20005
38 (1 1/2")	38 (1 1/2")	871.380150.20005
50 (2")	50 (2")	871.500200.20005
63/65 (2 1/2")	65 (2 1/2")	871.650250.20005
75 (3")	75 (3")	871.750300.20005

DN = Hose inner diameter

AN = Connection size (coupling size)



CC

Hose fittings

Quick couplings

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

- › Connector type: female coupling
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

DN mm (inch)	AN mm (inch)	Item code
25 (1")	25 (1")	871.250100.20006
38 (1 1/2")	38 (1 1/2")	871.380150.20006
50 (2")	50 (2")	871.500200.20006
63/65 (2 1/2")	65 (2 1/2")	871.650250.20006
75 (3")	75 (3")	871.750300.20006

DN = Hose inner diameter

AN = Connection size (coupling size)



CC

Adapter

Gaskets

› Brass

- › Connector type: female coupling
- › Coupling seal: Nitrile butadiene rubber (NBR)

DN mm (inch)	AN mm (inch)	Item code
13 (1/2")	13 (1/2")	871.130050.300
19 (3/4")	19 (3/4")	871.190075.300
25 (1")	25 (1")	871.250100.300
38 (1 1/2")	38 (1 1/2")	871.380150.300
40 (1 1/2")	40 (1 1/2")	871.400150.300
50 (2")	50 (2")	871.500200.300
63/65 (2 1/2")	65 (2 1/2")	871.650250.300
75 (3")	75 (3")	871.750300.300
100 (4")	100 (4")	871.100400.300

DN = Hose inner diameter

AN = Connection size (coupling size)



CC

Accessories

Swivel joints

Modular welding system

Technical annex

1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.9. Hose fitting for safety clamps with camlock coupling

› Polypropylene

- › Connector type: female coupling
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

CC



DN mm (inch)	AN mm (inch)	Item code
25 (1")	25 (1")	871.250100.500
32 (1 1/4")	32 (1 1/4")	871.320125.500
38 (1 1/2")	38 (1 1/2")	871.380150.500
50 (2")	50 (2")	871.500200.500

DN = Hose inner diameter

AN = Connection size (coupling size)



Supplementary products:
Safety clamps SC (see page 51)
Quick coupling seals SKD (see page 142)

1.2.10. Hose fitting for safety clamps with camlock coupling with latch

One side hose fitting EN 14420-2 for assembly with safety clamps, other side camlock coupling with latch in dependence on EN 14420-7.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

- › 60° triangular grooves (optional)

- › Connector type: male coupling



ECS



DN mm (inch)	AN mm (inch)	Item code	Item code ... R
25 (1")	25 (1")	868.250100.201	
38 (1 1/2")	38 (1 1/2")	868.380150.201	
50 (2")	50 (2")	868.500200.201	
75 (3")	75 (3")	868.750300.201	

DN = Hose inner diameter

AN = Connection size (coupling size)

When ordering with grooves state item-# ... + R

› Stainless steel V4A

- › 60° triangular grooves (optional)

- › Connector type: female coupling

- › Coupling seal: chlorosulfonated polyethylene (CSPE)



CCS



DN mm (inch)	AN mm (inch)	Item code	Item code ... R
25 (1")	25 (1")	871.250100.201	
38 (1 1/2")	38 (1 1/2")	871.380150.201	
50 (2")	50 (2")	871.500200.201	
75 (3")	75 (3")	871.750300.201	

DN = Hose inner diameter

AN = Connection size (coupling size)

When ordering with grooves state item code ... R



Supplementary products:
Safety clamps SC (see page 51)
Quick coupling seals SKD (see page 142)

1.2.11. Hose mender with hose fitting for safety clamps

Both sides hose fitting acc. to EN 14420-2 for assembly with safety clamps.

- › max. operating pressure: 25 bar / 362 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

DN mm (inch)	Item code
13 (1/2")	406.013000.020
19 (3/4")	406.019000.020
25 (1")	406.025000.020
32 (1 1/4")	406.032000.020
38 (1 1/2")	406.038000.020
50 (2")	406.050000.020
63/65 (2 1/2")	406.065000.020
75 (3")	406.075000.020
100 (4")	406.100000.020


DN = Hose inner diameter

› Brass

DN mm (inch)	Item code
45 (1 3/4")	406.045000.030
50 (2")	406.050000.030

DN = Hose inner diameter



 Supplementary products:
Safety clamps SC (see page 51)

1.2.12. Safety clamps for hose fittings EN 14420-3

Safety clamps acc. to EN 14420-3 with bolts and nuts.

- › max. operating pressure: 25 bar / 362 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

DN mm (inch)	Outer diameter hose in mm	Number of bolts and nuts	Item code
13 (1/2") x 5	22-24	4 x M6 x 20	636.013005.020
19 (3/4") x 4	26-29	4 x M6 x 20	636.019004.020
19 (3/4") x 6	30-33	4 x M6 x 20	636.019006.020
25 (1") x 5	34-36	4 x M6 x 20	636.025005.020
25 (1") x 6	36-39	4 x M6 x 20	636.025006.020
32 (1 1/4") x 6	43-46	4 x M6 x 20	636.032006.020
32 (1 1/4") x 8	47-50	4 x M6 x 20	636.032008.020
38 (1 1/2") x 6,5	50-52	4 x M6 x 20	636.038007.020
38 (1 1/2") x 8	53-56	4 x M6 x 20	636.038008.020
40 (1 1/2") x 10	58-61	4 x M6 x 20	636.040010.020
50 (2") x 6	60-63	4 x M8 x 25	636.050006.020
50 (2") x 8	64-67	4 x M8 x 25	636.050008.020
50 (2") x 10	69-71	4 x M8 x 25	636.050010.020
63/65 (2 1/2") x 8/7	78-82	4 x M8 x 25	636.065007.020



1. Hose fittings
- 1.2. Hose fittings EN 14420

1.2.12. Safety clamps for hose fittings EN 14420-3

SC

DN mm (inch)	Outer diameter hose in mm	Number of bolts and nuts	Item code
65 (2 1/2") x 10	84-87	4 x M8 x 25	636.065010.020
75 (3") x 8	89-93	4 x M8 x 25	636.075008.020
100 (4") x 8	114-119	4 x M10 x 40	637.100008.020

DN = Hose inner diameter x hose wall thickness

› Brass

› Bolts and nuts: Steel zinc plated

SC



DN mm (inch)	Outer diameter hose in mm	Number of bolts and nuts	Item code
13 (1/2") x 5	22-24	4 x M6 x 20	636.013005.030
19 (3/4") x 6	30-33	4 x M6 x 20	636.019006.030
25 (1") x 6	36-39	4 x M6 x 20	636.025006.030
25 (1") x 8	40-43	4 x M6 x 20	636.025008.030
32 (1 1/4") x 6	43-46	4 x M6 x 20	636.032006.030
32 (1 1/4") x 8	47-50	4 x M6 x 20	636.032008.030
32 (1 1/4") x 10	50-53	4 x M6 x 20	636.032010.030
38 (1 1/2") x 6,5	50-52	4 x M6 x 20	636.038007.030
38 (1 1/2") x 8	53-56	4 x M6 x 20	636.038008.030
40 (1 1/2") x 10	58-61	4 x M6 x 20	636.040010.030
50 (2") x 8,5	64-67	4 x M8 x 25	636.050008.030
50 (2") x 10	69-71	4 x M8 x 25	636.050010.030
63/65 (2 1/2") x 8/7	78-82	4 x M8 x 25	636.065007.030
75 (3") x 8	89-93	4 x M8 x 25	636.075008.030
75 (3") x 10	94-97	4 x M8 x 25	636.075010.030
80 (3") x 8	94-97	4 x M8 x 25	636.080008.030
100 (4") x 8	114-119	4 x M10 x 40	637.100008.030

DN = Hose inner diameter x hose wall thickness

› Aluminium

› Bolts and nuts: Steel zinc plated

SC



DN mm (inch)	Outer diameter hose in mm	Number of bolts and nuts	Item code
13 (1/2") x 5	22-24	4 x M6 x 20	636.013005.040
19 (3/4") x 4	26-29	4 x M6 x 20	636.019004.040
19 (3/4") x 6	30-33	4 x M6 x 20	636.019006.040
25 (1") x 5	34-36	4 x M6 x 20	636.025005.040
25 (1") x 6	36-39	4 x M6 x 20	636.025006.040
25 (1") x 8	40-43	4 x M6 x 20	636.025008.040
32 (1 1/4") x 6	43-46	4 x M6 x 20	636.032006.040
32 (1 1/4") x 8	47-50	4 x M6 x 20	636.032008.040
35 (1 3/8") x 6	47-50	4 x M6 x 20	636.035006.040
38 (1 1/2") x 6,5	50-52	4 x M6 x 20	636.038007.040
38 (1 1/2") x 8	53-56	4 x M6 x 20	636.038008.040
38 (1 1/2") x 10	57-60	4 x M6 x 20	636.038010.040
40 (1 1/2") x 7	53-56	4 x M6 x 20	636.040007.040
40 (1 1/2") x 10	58-61	4 x M6 x 20	636.040010.040
45 (1 3/4") x 7	58-61	4 x M8 x 25	636.045007.040
50 (2") x 6	60-63	4 x M8 x 25	636.050006.040
50 (2") x 8	64-67	4 x M8 x 25	636.050008.040

1.2.12. Safety clamps for hose fittings EN 14420-3

DN mm (inch)	Outer diameter hose in mm	Number of bolts and nuts	Item code
50 (2") x 10	69-71	4 x M8 x 25	636.050010.040
63/65 (2 1/2") x 8/7	78-82	4 x M8 x 25	636.065007.040
65 (2 1/2") x 10	84-87	4 x M8 x 25	636.065010.040
75 (3") x 8	89-93	4 x M8 x 25	636.075008.040
75 (3") x 10	94-97	4 x M8 x 25	636.075010.040
75 (3") x 12	98-101	4 x M8 x 25	636.075012.040
80 (3") x 8	94-97	4 x M8 x 25	636.080008.040
80 (3") x 10	99-102	4 x M8 x 25	636.080010.040
100 (4") x 8	114-119	4 x M10 x 40	637.100008.040
100 (4") x 10	118-122	4 x M10 x 40	637.100010.040
100 (4") x 12	122-126	4 x M10 x 40	637.100012.040
100 (4") x 14	126-130	4 x M10 x 40	637.100014.040
100 (4") x 16	130-134	4 x M10 x 40	637.100016.040
125 (5") x 10	143-148	6 x M10 x 40	637.125010.040
125 (5") x 13	149-154	6 x M12 x 50	637.125013.040
125 (5") x 15	153-158	6 x M12 x 50	637.125015.040
150 (6") x 10	168-174	6 x M12 x 50	637.150010.040
150 (6") x 13	174-180	6 x M12 x 50	637.150013.040
150 (6") x 15	178-184	6 x M12 x 50	637.150015.040
200 (8") x 12	222-229	6 x M12 x 60	637.200012.040
200 (8") x 16	230-239	6 x M12 x 60	637.200016.040

DN = Hose inner diameter x hose wall thickness



Supplementary products:
Bolts and nuts SM (see page 146)
Assembly bolts MS (see page 147)

1.2.13. Crimping ferrules for hose fittings

Crimping ferrules matched to hose fitting acc. to EN 14420-2.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V2A

DN mm (inch)	Item code
13 (1/2") x 4	605.013004.600
13 (1/2") x 5	605.013005.600
19 (3/4") x 6	605.019006.600
25 (1") x 6	605.025006.600
25 (1") x 7	605.025007.600
32 (1 1/4") x 6	605.032006.600
32 (1 1/4") x 8	605.032008.600
38 (1 1/2") x 6,5	605.038007.600
50 (2") x 7	605.050007.600
50 (2") x 8	605.050008.600
65 (2 1/2") x 7	605.065007.600
75 (3") x 8	605.075008.600
100 (4") x 8	605.100008.600
100 (4") x 10	605.100010.600

DN = Hose inner diameter x hose wall thickness



1.3.1. Male hose fitting for safety clamps EN 14423

One side hose fitting acc. to EN 14423 for assembly with safety clamps other side male thread.

- › max. operating pressure: steam & hot water
max. 18 bar / 261 PSI
- › Operation temperature: steam & hot water
max. 210°C / 410°F

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

VSS



› Stainless steel V4A

› BSPT-thread

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSPT 1/2"	321.130050.120
13 (1/2")	BSPT 3/4"	321.130075.120
19 (3/4")	BSPT 3/4"	321.190075.120
19 (3/4")	BSPT 1"	321.190100.120
25 (1")	BSPT 1"	321.250100.120
32 (1 1/4")	BSPT 1 1/4"	321.320125.120
38 (1 1/2")	BSPT 1 1/2"	321.380150.120
50 (2")	BSPT 2"	321.500200.120

DN = Hose inner diameter

VSS



› Stainless steel V4A

› NPT-thread

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	NPT 1/2"	321.130050.320
19 (3/4")	NPT 3/4"	321.190075.320
25 (1")	NPT 1"	321.250100.320
38 (1 1/2")	NPT 1 1/2"	321.380150.320
50 (2")	NPT 2"	321.500200.320

DN = Hose inner diameter

VMD



› Stainless steel V2A

› Rd.-thread

› Thread seal: Ethylene propylene Diene monome (EPDM)

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	Rd. 34 x 1/8"	323.130348.660
19 (3/4")	Rd. 44 x 1/6"	323.190446.660
25 (1")	Rd. 52 x 1/6"	323.250526.660
32 (1 1/4")	Rd. 58 x 1/6"	323.320586.660
38 (1 1/2")	Rd. 65 x 1/6"	323.380656.660
50 (2")	Rd. 78 x 1/6"	323.500786.660

DN = Hose inner diameter

VSS



› Brass

› BSPT-thread

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSPT 1/2"	321.130050.130
19 (3/4")	BSPT 3/4"	321.190075.130
25 (1")	BSPT 1"	321.250100.130
32 (1 1/4")	BSPT 1 1/4"	321.320125.130
38 (1 1/2")	BSPT 1 1/2"	321.380150.130
50 (2")	BSPT 2"	321.500200.130

DN = Hose inner diameter

1.3.1. Male hose fitting for safety clamps EN 14423

› Brass

› NPT-thread

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	NPT 1/2"	321.130050.330
19 (3/4")	NPT 3/4"	321.190075.330
38 (1 1/2")	NPT 1 1/2"	321.380150.330
50 (2")	NPT 2"	321.500200.330

DN = Hose inner diameter

› Steel zinc plated

› BSPT-thread

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSPT 1/2"	321.130050.110
13 (1/2")	BSPT 3/4"	321.130075.110
19 (3/4")	BSPT 3/4"	321.190075.110
19 (3/4")	BSPT 1"	321.190100.110
25 (1")	BSPT 1"	321.250100.110
32 (1 1/4")	BSPT 1 1/4"	321.320125.110
38 (1 1/2")	BSPT 1 1/2"	321.380150.110
50 (2")	BSPT 2"	321.500200.110

DN = Hose inner diameter

› Steel zinc plated

› NPT-thread

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	NPT 1/2"	321.130050.310
19 (3/4")	NPT 3/4"	321.190075.310
25 (1")	NPT 1"	321.250100.310
32 (1 1/4")	NPT 1 1/4"	321.320125.310
38 (1 1/2")	NPT 1 1/2"	321.380150.310
50 (2")	NPT 2"	321.500200.310

DN = Hose inner diameter



Supplementary products:
Safety clamps SC HD (see page 64)
Dust caps BK (see page 116)



- 1. Hose fittings
- 1.3. Hose fittings EN14423

1.3.2. Female hose fitting for safety clamps EN 14423

One side hose fitting acc. to EN 14423 for assembly with safety clamps other side female thread.

- › max. operating pressure: steam & hot water
max. 18 bar / 261 PSI
- › Operation temperature: steam & hot water
max. 210°C / 410°F

› Stainless steel V4A

› BSP-thread

- › Thread seal: Polytetrafluorethylene (PTFE)

MSS



DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	121.130050.122
13 (1/2")	BSP 3/4"	121.130075.122
19 (3/4")	BSP 3/4"	121.190075.122
19 (3/4")	BSP 1"	121.190100.122
25 (1")	BSP 1"	121.250100.122
25 (1")	BSP 1 1/4"	121.250125.122
32 (1 1/4")	BSP 1 1/4"	121.320125.122
38 (1 1/2")	BSP 1 1/2"	121.380150.122
50 (2")	BSP 2"	121.500200.122

DN = Hose inner diameter

› Stainless steel V2A

› Rd.-thread

MMD



DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	Rd. 34 x 1/8"	124.130348.666
19 (3/4")	Rd. 44 x 1/6"	124.190446.666
19 (3/4")	Rd. 52 x 1/6"	124.190526.666
25 (1")	Rd. 52 x 1/6"	124.250526.666
32 (1 1/4")	Rd. 58 x 1/6"	124.320586.666
38 (1 1/2")	Rd. 65 x 1/6"	124.380656.666
50 (2")	Rd. 78 x 1/6"	124.500786.666

DN = Hose inner diameter

› Brass

› BSP-thread

- › Thread seal: fiber-reinforced polyamide

MSS



DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	121.130050.133
13 (1/2")	BSP 3/4"	121.130075.133
19 (3/4")	BSP 3/4"	121.190075.133
19 (3/4")	BSP 1"	121.190100.133
25 (1")	BSP 1"	121.250100.133
25 (1")	BSP 1 1/4"	121.250125.133
32 (1 1/4")	BSP 1 1/4"	121.320125.133
38 (1 1/2")	BSP 1 1/2"	121.380150.133
50 (2")	BSP 2"	121.500200.133

DN = Hose inner diameter

1.3.2. Female hose fitting for safety clamps EN 14423

› Brass

› M-Thread

› conical sealing

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	M22 x 1.5 mm	131.130221.433
19 (3/4")	M30 x 1.5 mm	131.190301.433

DN = Hose inner diameter



Hose fittings

› Steel zinc plated

› BSP-thread

› Thread seal: fiber-reinforced polyamide

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	121.130050.111
13 (1/2")	BSP 3/4"	121.130075.111
19 (3/4")	BSP 3/4"	121.190075.111
19 (3/4")	BSP 1"	121.190100.111
25 (1")	BSP 1"	121.250100.111
25 (1")	BSP 1 1/4"	121.250125.111
32 (1 1/4")	BSP 1 1/4"	121.320125.111
38 (1 1/2")	BSP 1 1/2"	121.380150.111
50 (2")	BSP 2"	121.500200.111

DN = Hose inner diameter



Quick couplings

Adapter

› Steel zinc plated

› BSP-thread

› conical sealing

DN mm (inch)	Thread inch/mm	Item code
13 (1/2")	BSP 1/2"	131.130050.111
19 (3/4")	BSP 3/4"	131.190075.111
25 (1")	BSP 1"	131.250100.111
32 (1 1/4")	BSP 1 1/4"	131.320125.111
38 (1 1/2")	BSP 1 1/2"	131.380150.111
50 (2")	BSP 2"	131.500200.111

DN = Hose inner diameter



Gaskets

Accessories



Supplementary products:
Safety clamps SC HD (see page 64)
Dust plugs BS (see page 117)
Thread seals GD (see page 135)

Swivel joints

Modular welding system

Technical annex

- 1. Hose fittings
- 1.3. Hose fittings EN14423

1.3.3. Hose fitting for safety clamps with swivel flange EN 14423

One side hose fitting acc. to EN 14423 (to DN 50) for assembly with safety clamps other side swivel flange.

- › max. operating pressure: steam & hot water
max. 18 bar / 261 PSI*
 - › Operation temperature: steam & hot water
max. 210°C / 410°F
- * mind pressure rating of flange

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

FSS



› Stainless steel V4A

› Flange interface: EN PN 40

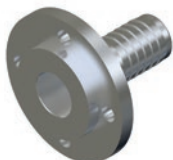
Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	973.013000.422
13 (1/2")	25 (1")	973.013025.422
19 (3/4")	20 (3/4")	973.019000.422
19 (3/4")	25 (1")	973.019025.422
25 (1")	25 (1")	973.025000.422
32 (1 1/4")	32 (1 1/4")	973.032000.422
38 (1 1/2")	40 (1 1/2")	973.038000.422
50 (2")	50 (2")	973.050000.422

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard

FSS



› Stainless steel V4A

› Flange interface: EN PN 16

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
50 (2")	50 (2")	973.050000.222

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard

FSS



› Stainless steel V4A

› Flange interface: ASME 150 PSI

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	979.013000.222
19 (3/4")	20 (3/4")	979.019000.222
25 (1")	25 (1")	979.025000.222
32 (1 1/4")	32 (1 1/4")	979.032000.222
38 (1 1/2")	40 (1 1/2")	979.038000.222
50 (2")	50 (2")	979.050000.222

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard

FSS



› Stainless steel V4A

› Flange interface: ASME 300 PSI

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	979.013000.422
19 (3/4")	20 (3/4")	979.019000.422
25 (1")	25 (1")	979.025000.422
32 (1 1/4")	32 (1 1/4")	979.032000.422

1.3.3.Hose fitting for safety clamps with swivel flange EN 14423

Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
38 (1 1/2")	40 (1 1/2")	979.038000.422
50 (2")	50 (2")	979.050000.422

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard

› **Stainless steel V4A**

› **Flange interface: EN PN 40**

› **Swivel flange: Steel zinc plated**

Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	973.013000.421
19 (3/4")	20 (3/4")	973.019000.421
19 (3/4")	25 (1")	973.019025.421
25 (1")	25 (1")	973.025000.421
32 (1 1/4")	32 (1 1/4")	973.032000.421
38 (1 1/2")	40 (1 1/2")	973.038000.421
50 (2")	50 (2")	973.050000.421

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

› **Steel zinc plated**

› **Flange interface: EN PN 40**

Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	973.013000.411
19 (3/4")	20 (3/4")	973.019000.411
19 (3/4")	25 (1")	973.019025.411
25 (1")	25 (1")	973.025000.411
32 (1 1/4")	32 (1 1/4")	973.032000.411
38 (1 1/2")	40 (1 1/2")	973.038000.411
50 (2")	50 (2")	973.050000.411
65 (2 1/2")	65 (2 1/2")	973.065000.411
75 (3")	75 (3")	973.075000.411
100 (4")	100 (4")	973.100000.411

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.



FSS

FSS

FSS

Hose fittings

Quick couplings

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1. Hose fittings
- 1.3. Hose fittings EN14423

1.3.3. Hose fitting for safety clamps with swivel flange EN 14423

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FSS



› Steel zinc plated

› Flange interface: EN PN 16

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	973.050000.211
65 (2 1/2")	65 (2 1/2")	973.065000.211
75 (3")	75 (3")	973.075000.211
100 (4")	100 (4")	973.100000.211

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

FSS



› Steel zinc plated

› Flange interface: ASME 150 PSI

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	979.013000.211
19 (3/4")	20 (3/4")	979.019000.211
25 (1")	25 (1")	979.025000.211
32 (1 1/4")	32 (1 1/4")	979.032000.211
38 (1 1/2")	40 (1 1/2")	979.038000.211
50 (2")	50 (2")	979.050000.211
65 (2 1/2")	65 (2 1/2")	979.065000.211
75 (3")	75 (3")	979.075000.211
100 (4")	100 (4")	979.100000.211

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

FSS



› Steel zinc plated

› Flange interface: ASME 300 PSI

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	979.013000.411
19 (3/4")	20 (3/4")	979.019000.411
25 (1")	25 (1")	979.025000.411
32 (1 1/4")	32 (1 1/4")	979.032000.411
38 (1 1/2")	40 (1 1/2")	979.038000.411
50 (2")	50 (2")	979.050000.411
65 (2 1/2")	65 (2 1/2")	979.065000.411
75 (3")	75 (3")	979.075000.411
100 (4")	100 (4")	979.100000.411

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard

Zinc-plated steel loose flanges may have slight surface irregularities which do not affect the function.

1.3.4. Hose fitting for safety clamps with fixed flange EN 14423

<p>One side hose fitting acc. to EN 14423 (to DN 50) for assembly with safety clamps other side fixed flange.</p>	<ul style="list-style-type: none"> › max. operating pressure: steam & hot water max. 18 bar / 261 PSI* › Operation temperature: steam & hot water max. 210°C / 410°F <p>* mind pressure rating of flange</p>
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› **Stainless steel V4A**

› **Flange interface: EN PN 40**

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	983.013000.420
19 (3/4")	20 (3/4")	983.019000.420
19 (3/4")	20 (3/4")	983.019025.420
25 (1")	25 (1")	983.025000.420
32 (1 1/4")	32 (1 1/4")	983.032000.420
38 (1 1/2")	40 (1 1/2")	983.038000.420
50 (2")	50 (2")	983.050000.420

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard



Hose fittings

Quick couplings

Adapter

› **Stainless steel V4A**

› **Flange interface: EN PN 16**

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	983.050000.220

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard



Gaskets

Accessories

› **Stainless steel V4A**

› **Flange interface: ASME 150 PSI**

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	984.013000.220
19 (3/4")	20 (3/4")	984.019000.220
25 (1")	25 (1")	984.025000.220
32 (1 1/4")	32 (1 1/4")	984.032000.220
38 (1 1/2")	40 (1 1/2")	984.038000.220
50 (2")	50 (2")	984.050000.220

DN = Hose inner diameter

DN² = Nominal size flange

Larger sizes on request in acc. to standard



Swivel joints

Modular welding system

› **Stainless steel V4A**

› **Flange interface: ASME 300 PSI**

Fitting	Flange	Item code
DN mm (inch)	DN ² mm (inch)	
13 (1/2")	15 (1/2")	984.013000.420
19 (3/4")	20 (3/4")	984.019000.420
25 (1")	25 (1")	984.025000.420
32 (1 1/4")	32 (1 1/4")	984.032000.420



Technical annex

1. Hose fittings
- 1.3. Hose fittings EN14423

1.3.4. Hose fitting for safety clamps with fixed flange EN 14423

FSS		
Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
38 (1 1/2")	40 (1 1/2")	984.038000.420
50 (2")	50 (2")	984.050000.420

DN = Hose inner diameter
Larger sizes on request in acc. to standard

DN² = Nominal size flange

› Steel zinc plated

› Flange interface: EN PN 40

FSS		
Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	983.013000.410
19 (3/4")	20 (3/4")	983.019000.410
25 (1")	25 (1")	983.025000.410
32 (1 1/4")	32 (1 1/4")	983.032000.410
38 (1 1/2")	40 (1 1/2")	983.038000.410
50 (2")	50 (2")	983.050000.410
65 (2 1/2")	65 (2 1/2")	983.065000.410
75 (3")	75 (3")	983.075000.410
100 (4")	100 (4")	983.100000.410

DN = Hose inner diameter
DN² = Nominal size flange

› Steel zinc plated

› Flange interface: EN PN 16

FSS		
Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
For smaller nominal diameters see PN 40		
50 (2")	50 (2")	983.050000.210
65 (2 1/2")	65 (2 1/2")	983.065000.210
75 (3")	75 (3")	983.075000.210
100 (4")	100 (4")	983.100000.210

DN = Hose inner diameter
DN² = Nominal size flange

› Steel zinc plated

› Flange interface: ASME 150 PSI

FSS		
Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	984.013000.210
19 (3/4")	20 (3/4")	984.019000.210
25 (1")	25 (1")	984.025000.210
32 (1 1/4")	32 (1 1/4")	984.032000.210
38 (1 1/2")	40 (1 1/2")	984.038000.210
50 (2")	50 (2")	984.050000.210
65 (2 1/2")	65 (2 1/2")	984.065000.210
75 (3")	75 (3")	984.075000.210
100 (4")	100 (4")	984.100000.210

DN = Hose inner diameter
DN² = Nominal size flange

1.3.4. Hose fitting for safety clamps with fixed flange EN 14423

› Steel zinc plated

› Flange interface: ASME 300 PSI

Fitting	Flange	
DN mm (inch)	DN ² mm (inch)	Item code
13 (1/2")	15 (1/2")	984.013000.410
19 (3/4")	20 (3/4")	984.019000.410
25 (1")	25 (1")	984.025000.410
32 (1 1/4")	32 (1 1/4")	984.032000.410
38 (1 1/2")	40 (1 1/2")	984.038000.410
50 (2")	50 (2")	984.050000.410
65 (2 1/2")	65 (2 1/2")	984.065000.410
75 (3")	75 (3")	984.075000.410
100 (4")	100 (4")	984.100000.410

DN = Hose inner diameter

DN² = Nominal size flange



Supplementary products:
Safety clamps SC HD (see page 64)

1.3.5. Hose fitting for safety clamps with welding end EN 14423

One side hose fitting acc. to EN 14423 (to DN 50) for assembly with safety clamps, other side welding end ISO 1127 row 1.

- › max. operating pressure: steam & hot water
max. 18 bar / 261 PSI
- › Operation temperature: steam & hot water
max. 210°C / 410°F

› Stainless steel V4A

› ISO 1127 row 1

DN mm (inch)	Welding end mm	Item code
13 (1/2")	21,3 x 2,0	969.013000.02030
13 (1/2")	33,7 x 2,6	969.013025.02030
19 (3/4")	26,9 x 2,3	969.019000.02030
19 (3/4")	33,7 x 2,6	969.019025.02030
25 (1")	33,7 x 2,6	969.025000.02030
32 (1 1/4")	42,4 x 2,6	969.032000.02030
38 (1 1/2")	48,3 x 2,6	969.038000.02030
50 (2")	60,3 x 2,9	969.050000.02030
75 (3")	88,9 x 3,2	969.075000.02030

DN = Hose inner diameter

Larger sizes on request in acc. to standard



1. Hose fittings
- 1.3. Hose fittings EN14423

1.3.5. Hose fitting for safety clamps with welding end EN 14423

› Steel

› ISO 1127 row 1

ASS



DN mm (inch)	Welding end mm	Item code
13 (1/2")	21,3 x 2,0	969.013000.01030
13 (1/2")	33,7 x 2,6	969.013025.01030
19 (3/4")	26,9 x 2,3	969.019000.01030
19 (3/4")	33,7 x 2,6	969.019025.01030
25 (1")	33,7 x 2,6	969.025000.01030
32 (1 1/4")	42,4 x 2,6	969.032000.01030
38 (1 1/2")	48,3 x 2,6	969.038000.01030
50 (2")	60,3 x 2,9	969.050000.01030
75 (3")	88,9 x 3,2	969.075000.01030
100 (4")	114,3 x 3,6	969.100000.01030

DN = Hose inner diameter

Larger sizes on request in acc. to standard



Supplementary products:
Safety clamps SC HD (see page 64)

1.3.6. Safety clamps EN 14423

Safety clamps acc. to EN 14423 with bolts and nuts (self-locking).

- › max. operating pressure: steam & hot water max. 18 bar / 261 PSI
- › Operation temperature: steam & hot water max. 210°C / 410°F

› Stainless steel V4A

SC HD



DN mm (inch)	Outer diameter hose in mm	Number of bolts and nuts	Item code
13 (1/2") x 6	24-26	4 x M6 x 20	635.013006.020
19 (3/4") x 7	32-34	4 x M8 x 25	635.019007.020
25 (1") x 7,5	39-41	4 x M8 x 25	635.025008.020
32 (1 1/4") x 8	47-50	4 x M8 x 25	635.032008.020
38 (1 1/2") x 8	53-56	4 x M10 x 40	635.038008.020
50 (2") x 9	67-69	4 x M10 x 40	635.050009.020

DN = Hose inner diameter x hose wall thickness

› Brass

› Bolts and nuts: Steel zinc plated

SC HD



DN mm (inch)	Outer diameter hose in mm	Number of bolts and nuts	Item code
13 (1/2") x 5	22-24	4 x M6 x 20	635.013005.030
13 (1/2") x 6	24-26	4 x M6 x 20	635.013006.030
13 (1/2") x 7	26-28	4 x M6 x 20	635.013007.030
19 (3/4") x 6	30-33	4 x M8 x 25	635.019006.030
19 (3/4") x 7	32-34	4 x M8 x 25	635.019007.030
25 (1") x 6,5	37-39	4 x M8 x 25	635.025007.030
25 (1") x 7,5	39-41	4 x M8 x 25	635.025008.030
25 (1") x 8,5	41-43	4 x M8 x 25	635.025009.030
32 (1 1/4") x 6	43-46	4 x M8 x 25	635.032006.030

1.3.6. Safety clamps EN 14423

SC HD

DN mm (inch)	Outer diameter hose in mm	Number of bolts and nuts	Item code
32 (1 ¼") x 8	47-50	4 x M8 x 25	635.032008.030
38 (1 ½") x 8	53-56	4 x M10 x 40	635.038008.030
50 (2") x 9	67-69	4 x M10 x 40	635.050009.030
50 (2") x 10	69-71	4 x M10 x 40	635.050010.030
50 (2") x 12	73-76	4 x M10 x 40	635.050012.030
65 (2 ½") x 10	84-87	4 x M10 x 40	635.065010.030
65 (2 ½") x 12	88-91	4 x M10 x 40	635.065012.030
75 (3") x 10	94-97	4 x M10 x 40	635.075010.030
75 (3") x 12	98-101	4 x M10 x 40	635.075012.030
75 (3") x 14	102-105	4 x M10 x 40	635.075014.030

DN = Hose inner diameter x hose wall thickness



Supplementary products:
Bolts and nuts SM (see page 146)
Assembly bolts MS (see page 147)

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

1.4.1. Male fittings with threaded ferrules

One side fitting with threaded ferrules other side male thread. Complete set acc. to EN 14424.

- › max. operating pressure: DN 13 - DN 25 = 25 bar / 362 PSI, DN 32 - DN 40 = 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› BSPT-thread, BSP-thread

› Threaded ferrule: Brass chrome-plated

VHV



DN mm (inch)	Thread inch/mm	Item code
13 (1/2") x 5	BSPT 1/2"	340.135050.120
19 (3/4") x 4	BSPT 3/4"	340.194075.120
19 (3/4") x 5	BSPT 3/4"	340.195075.120
19 (3/4") x 6	BSPT 3/4"	340.196075.120
19 (3/4") x 4	BSP 1"	340.194100.120
19 (3/4") x 5	BSP 1"	340.195100.120
19 (3/4") x 6	BSP 1"	340.196100.120
25 (1") x 5	BSP 1"	340.255100.120
25 (1") x 6	BSP 1"	340.256100.120

DN = Hose inner diameter x hose wall thickness

› Stainless steel V4A

› NPT-thread

› Threaded ferrule: Brass chrome-plated

VHV



DN mm (inch)	Thread inch/mm	Item code
19 (3/4") x 4	NPT 3/4"	340.194075.320
19 (3/4") x 5	NPT 3/4"	340.195075.320
19 (3/4") x 6	NPT 3/4"	340.196075.320
25 (1") x 5	NPT 1"	340.255100.320
25 (1") x 6	NPT 1"	340.256100.320

DN = Hose inner diameter x hose wall thickness

› Brass

› BSPT-thread, BSP-thread

VHV



DN mm (inch)	Thread inch/mm	Item code
13 (1/2") x 4	BSPT 1/2"	340.134050.130
13 (1/2") x 5	BSPT 1/2"	340.135050.130
13 (1/2") x 5	BSPT 3/4"	340.155075.130
19 (3/4") x 4	BSPT 3/4"	340.194075.130
19 (3/4") x 4	BSP 1"	340.194100.130
19 (3/4") x 5	BSPT 3/4"	340.195075.130
19 (3/4") x 5	BSP 1"	340.195100.130
19 (3/4") x 6	BSPT 3/4"	340.196075.130
19 (3/4") x 6	BSP 1"	340.196100.130
25 (1") x 5	BSP 1"	340.255100.130
25 (1") x 6	BSP 1"	340.256100.130
32 (1 1/4") x 6	BSP 1 1/4"	340.326125.130
38 (1 1/2") x 6,5	BSP 1 1/2"	340.387150.130

DN = Hose inner diameter x hose wall thickness

1.4.1. Male fittings with threaded ferrules

› Brass

› NPT-thread

DN mm (inch)	Thread inch/mm	Item code
15 (1/2") x 5	NPT 3/4"	340.155075.330
19 (3/4") x 4	NPT 3/4"	340.194075.330
19 (3/4") x 5	NPT 3/4"	340.195075.330
19 (3/4") x 6	NPT 3/4"	340.196075.330
25 (1") x 5	NPT 1"	340.255100.330
25 (1") x 6	NPT 1"	340.256100.330

DN = Hose inner diameter x hose wall thickness

› Brass chrome-plated

› BSP-thread

DN mm (inch)	Thread inch/mm	Item code
19 (3/4") x 4	BSP 1"	340.194100.13001
19 (3/4") x 5	BSP 1"	340.195100.13001
19 (3/4") x 6	BSP 1"	340.196100.13001

DN = Hose inner diameter x hose wall thickness



Supplementary products:
Threaded ferrules SH (see page 69)
Dust caps BK (see page 116)
Spanners MH (see page 150)

1.4.2. Female fittings with threaded ferrules

One side fitting with threaded ferrules other side female thread. Complete set with swivel nut and threaded ferrules acc. to EN 14424.

- › max. operating pressure: DN 13 - DN 25 = 25 bar / 362 PSI, DN 32 - DN 40 = 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› BSP-thread

› Fitting: Stainless steel V4A

› Thread seal: Polytetrafluorethylene (PTFE)

› Swivel nut: Stainless steel V4A

› Threaded ferrule: Brass chrome-plated

DN mm (inch)	Thread inch/mm	Item code
13 (1/2") x 5	BSP 1/2"	140.135050.122
13 (1/2") x 5	BSP 3/4"	140.135075.122
19 (3/4") x 4	BSP 3/4"	140.194075.122
19 (3/4") x 4	BSP 1"	140.194100.122
19 (3/4") x 5	BSP 3/4"	140.195075.122
19 (3/4") x 5	BSP 1"	140.195100.122
19 (3/4") x 6	BSP 3/4"	140.196075.122
19 (3/4") x 6	BSP 1"	140.196100.122
25 (1") x 5	BSP 1"	140.255100.122
25 (1") x 5	BSP 1 1/4"	140.255125.122
25 (1") x 6	BSP 1"	140.256100.122
25 (1") x 6	BSP 1 1/4"	140.256125.122

DN = Hose inner diameter x hose wall thickness



1. Hose fittings
- 1.4. Fitting with threaded ferrules EN 14424

1.4.2. Female fittings with threaded ferrules

› Brass

› BSP-thread

› Thread seal: Polyurethane rubber (AU)

MHV



DN mm (inch)	Thread inch/mm	Item code
13 (1/2") x 4	BSP 1/2"	140.134050.133
13 (1/2") x 5	BSP 1/2"	140.135050.133
13 (1/2") x 5	BSP 3/4"	140.135075.133
15 (1/2") x 5	BSP 3/4"	140.155075.133
15 (1/2") x 5	BSP 1"	140.155100.133
19 (3/4") x 4	BSP 3/4"	140.194075.133
19 (3/4") x 4	BSP 1"	140.194100.133
19 (3/4") x 5	BSP 3/4"	140.195075.133
19 (3/4") x 5	BSP 1"	140.195100.133
19 (3/4") x 6	BSP 3/4"	140.196075.133
19 (3/4") x 6	BSP 1"	140.196100.133
25 (1") x 5	BSP 1"	140.255100.133
25 (1") x 5	BSP 1 1/4"	140.255125.133
25 (1") x 6	BSP 1"	140.256100.133
25 (1") x 6	BSP 1 1/4"	140.256125.133
32 (1 1/4") x 6	BSP 1 1/4"	140.326125.133
38 (1 1/2") x 7	BSP 1 1/2"	140.387150.133

DN = Hose inner diameter x hose wall thickness

› Fitting: Brass

› BSP-thread

› Swivel nut: Brass chrome-plated

› Thread seal: Polyurethane rubber (AU)

› Threaded ferrule: Brass chrome-plated

MHV



DN mm (inch)	Thread inch/mm	Item code
13 (1/2") x 5	BSP 3/4"	140.135075.13301
15 (1/2") x 5	BSP 3/4"	140.155075.13301
15 (1/2") x 5	BSP 1"	140.155100.13301
19 (3/4") x 4	BSP 3/4"	140.194075.13301
19 (3/4") x 4	BSP 1"	140.194100.13301
19 (3/4") x 5	BSP 3/4"	140.195075.13301
19 (3/4") x 5	BSP 1"	140.195100.13301
19 (3/4") x 6	BSP 3/4"	140.196075.13301
19 (3/4") x 6	BSP 1"	140.196100.13301
25 (1") x 5	BSP 1"	140.255100.13301
25 (1") x 6	BSP 1"	140.256100.13301
32 (1 1/4") x 6	BSP 1 1/4"	140.326125.13301

DN = Hose inner diameter x hose wall thickness



Supplementary products:
 Threaded ferrules SH (see page 69)
 Dust plugs BS (see page 117)
 Thread seals GD (see page 135)
 Spanners MH (see page 150)

1.4.3. Threaded ferrules for fittings with threaded ferrules

Threaded ferrules acc. to EN 14424.

- › max. operating pressure: DN 13 - DN 25 = 25 bar / 362 PSI,
DN 32 - DN 40 = 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Brass

DN mm (inch)	Item code
10 (3/8") x 4	600.010004.300
13 (1/2") x 4	600.013004.300
13 (1/2") x 5	600.013005.300
15 (1/2") x 5	600.015005.300
19 (3/4") x 4	600.019004.300
19 (3/4") x 5	600.019005.300
19 (3/4") x 6	600.019006.300
25 (1") x 5	600.025005.300
25 (1") x 6	600.025006.300
32 (1 1/4") x 6	600.032006.300
38 (1 1/2") x 6,5	600.038007.300

DN = Hose inner diameter x hose wall thickness

› Brass chrome-plated

DN mm (inch)	Item code
13 (1/2") x 5	600.013005.30001
15 (1/2") x 5	600.015005.30001
19 (3/4") x 4	600.019004.30001
19 (3/4") x 5	600.019005.30001
19 (3/4") x 6	600.019006.30001
25 (1") x 5	600.025005.30001
25 (1") x 6	600.025006.30001

DN = Hose inner diameter x hose wall thickness



SH



SH



Supplementary products:
Fittings VHV, MHV (see page 66)



2.1. Tank truck couplings EN 14420-6

2.1.1.	VK	Male tank truck couplings	72
2.1.2.	VKS	Male tank truck couplings with hose fitting for safety clamps	73
2.1.3.	MK	Female tank truck coupling	74
2.1.4.	MKS	Female tank truck couplings with hose fitting for safety clamps	77
2.1.5.	MB	Dust caps	79
2.1.6.	VB	Dust plugs	80
2.1.7.	KSR	Protection rings for male tank truck coupling	81

2.2. Camlock couplings EN 14420-7

2.2.1.	AF, FF, E, EC, FLA, AW	Male camlock couplings	82
2.2.2.	DF, BF, C, CC, FLG, DW	Female camlock couplings	89
2.2.3.	DC	Dust caps for camlock couplings	96
2.2.4.	DP	Dust plugs for camlock couplings	97
2.2.5.	HBR	Lever, bolts and rings	98

2.3. Camlock couplings acc. to EN 14420-7 with safety latch

2.3.1.	AFS, FFS, ECS, AWS	Male camlock couplings for latch	99
2.3.2.	DFS, CCS	Female camlock couplings for latch	100
2.3.3.	DCS	Dust caps for camlock couplings with latch	100
2.3.4.	DPS	Dust plugs for camlock couplings with latch	101

2. Quick couplings

2.1. Tank truck couplings EN 14420-6

2.1.1. Male tank truck couplings

Male tank truck coupling acc. to EN 14420-6 with BSP-fe-male thread.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› Thread seal: Polytetrafluorethylene (PTFE)

AN mm (inch)	Thread inch/mm	Item Code
VK 50	BSP 2"	833.200200.120
VK 80	BSP 3"	833.300300.120
VK 100	BSP 4"	833.400400.120

AN = Connection size (coupling size)

› Stainless steel V4A

E-CTFE coated

› Thread seal: Polytetrafluorethylene (PTFE)

AN mm (inch)	Thread inch/mm	Item Code
VK 50	BSP 2"	833.200200.12005
VK 80	BSP 3"	833.300300.12005
VK 100	BSP 4"	833.400400.12005

AN = Connection size (coupling size)

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

› Thread seal: Polytetrafluorethylene (PTFE)

AN mm (inch)	Thread inch/mm	Item Code
VK 50	BSP 2"	833.200200.12006
VK 80	BSP 3"	833.300300.12006
VK 100	BSP 4"	833.400400.12006

AN = Connection size (coupling size)

› Brass

› Thread seal: Polyurethane rubber (AU)

AN mm (inch)	Thread inch/mm	Item Code
VK 50	BSP 1 1/2"	833.200150.130
VK 50	BSP 2"	833.200200.130
VK 50	BSP 2 1/2"	833.200250.130
VK 80	BSP 3"	833.300300.130
VK 100	BSP 4"	833.400400.130

AN = Connection size (coupling size)

› Aluminium

› Thread seal: Polyurethane rubber (AU)

AN mm (inch)	Thread inch/mm	Item Code
VK 80	BSP 3"	833.300300.140

AN = Connection size (coupling size)



Supplementary products:
Thread sealen GD (see page 134)
Female tank truck couplings MK, MKS (see page 74)
Cap MB (see page 79)



Alternative products:
Camlock couplings (see page 82)

2.1.2. Male tank truck couplings with hose fitting for safety clamps

One side male tank truck coupling acc. to EN 14420-6, other side hose fitting EN 14420 for assembly with safety clamps.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

- › **Stainless steel V4A**
- › 60° triangular grooves (optional)

- › Screwed version (of VK and VSL)
- › Thread seal: Polytetrafluorethylene (PTFE)



AN mm (inch)	DN mm (inch)	Item Code	Item Code ... R
VK 50	32 (1 ¼")	833.320200.020	
VK 50	38 (1 ½")	833.380200.020	
VK 50	50 (2")	833.500200.020	
VK 80	65 (2 ½")	833.650300.020	
VK 80	75 (3")	833.750300.020	
VK 80	80 (3")	833.800300.020	
VK 100	100 (4")	833.100400.020	

DN = Hose inner diameter

AN = Connection size (coupling size)

When ordering with grooves state item-# ... + R



- › **Stainless steel V4A**

- › one-piece

AN mm (inch)	DN mm (inch)	Item Code
VK 50	50 (2")	833.500000.020
VK 80	75 (3")	833.750000.020

DN = Hose inner diameter

AN = Connection size (coupling size)



- › **Stainless steel V4A**

E-CTFE coated

- › one-piece

AN mm (inch)	DN mm (inch)	Item Code
VKS 80	75 (3")	833.750000.02005

DN = Hose inner diameter

AN = Connection size (coupling size)



- › **Brass**

- › Screwed version (of VK and VSL)
- › Thread seal: Polyurethane rubber (AU)

AN mm (inch)	DN mm (inch)	Item Code
VK 50	32 (1 ¼")	833.320200.030
VK 50	38 (1 ½")	833.380200.030
VK 50	50 (2")	833.500200.030
VK 80	65 (2 ½")	833.650300.030
VK 80	75 (3")	833.750300.030
VK 80	80 (3")	833.800300.030
VK 100	100 (4")	833.100400.030

DN = Hose inner diameter

AN = Connection size (coupling size)



- 2. Quick couplings
- 2.1. Tank truck couplings EN 14420-6

2.1.2. Male tank truck couplings

› Brass

› one-piece

VKS



AN mm (inch)	DN mm (inch)	Item Code
VK 50	50 (2")	833.500000.030
VK 80	75 (3")	833.750000.030

DN = Hose inner diameter

AN = Connection size (coupling size)

› Aluminium

› Screwed version (of VK and VSL)

› Thread seal: Polyurethane rubber (AU)

VKS



AN mm (inch)	DN mm (inch)	Item Code
VK 80	75 (3")	833.750300.040

DN = Hose inner diameter

AN = Connection size (coupling size)



Supplementary products:

Safety clamps (see page 51)

Protection rings for male tank truck coupling KSR (see page 81)

Dust plugs MB (see page 79)

2.1.3. Female tank truck couplings

Female tank truck coupling acc. to EN 14420-6, incl. seals.

› max. operating pressure: 16 bar / 232 PSI

› Operation temperature: -20°C to +65°C

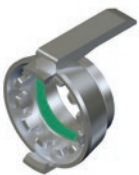
› Stainless steel V4A

› BSP-Female thread

› Thread seal: Polytetrafluorethylene (PTFE)

› Coupling seal: chlorosulfonated polyethylene (CSPE)

MK



AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 50	BSP 2"	GSD	832.200200.122
MK 80	BSP 3"	GSD	832.300300.122
MK 100	BSP 4"	TWO	832.400400.122

KD = Coupling seal type

AN = Connection size (coupling size)

› Stainless steel V4A

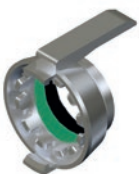
E-CTFE coated

› BSP-Female thread

› Thread seal: Polytetrafluorethylene (PTFE)

› Coupling seal: chlorosulfonated polyethylene (CSPE)

MK



AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 50	BSP 2"	GSD	832.200200.12205
MK 80	BSP 3"	GSD	832.300300.12205
MK 100	BSP 4"	TWO	832.400400.12205

KD = Coupling seal type

AN = Connection size (coupling size)

2.1.3. Female tank truck couplings

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

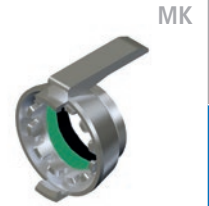
› BSP-Female thread

- › Thread seal: Polytetrafluorethylene (PTFE)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 50	BSP 2"	GSD	832.200200.12206
MK 80	BSP 3"	GSD	832.300300.12206
MK 100	BSP 4"	TWO	832.400400.12206

KD = Coupling seal type

AN = Connection size (coupling size)



› Brass

› BSP-Female thread

- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 50	BSP 2"	GSD	832.200200.133
MK 80	BSP 3"	GSD	832.300300.133
MK 100	BSP 4"	TWO	832.400400.133

KD = Coupling seal type

AN = Connection size (coupling size)



› Aluminium

› BSP-Female thread

- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 80	BSP 3"	TWF	832.300300.144

KD = Coupling seal type

AN = Connection size (coupling size)



› Stainless steel V4A

› BSP-Female thread

- › Thread seal: Polytetrafluorethylene (PTFE)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 50	BSP 2"	GSD	832.200200.121
MK 80	BSP 3"	GSD	832.300300.121

KD = Coupling seal type

AN = Connection size (coupling size)



› Stainless steel V4A

E-CTFE coated

› BSP-Female thread

- › Thread seal: Polytetrafluorethylene (PTFE)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 50	BSP 2"	GSD	832.200200.12105
MK 80	BSP 3"	GSD	832.300300.12105

KD = Coupling seal type

AN = Connection size (coupling size)



- 2. Quick couplings
 - 2.1. Tank truck couplings EN 14420-6

2.1.3. Female tank truck couplings

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

Sealing rings



- › **Stainless steel V4A**
CF-E-CTFE coated, electrically conductive

- › **BSP-Female thread**
- › Thread seal: Polytetrafluorethylene (PTFE)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 50	BSP 2"	GSD	832.200200.12106
MK 80	BSP 3"	GSD	832.300300.12106

KD = Coupling seal type

AN = Connection size (coupling size)

› Brass

- › **BSP-female and male thread**
- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

Sealing rings



AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 50	BSP 2" IG	GSD	832.200200.131
MK 50	BSP 2" AG	GSD	832.200210.131
MK 80	BSP 3" IG	TWO	832.300300.131

KD = Coupling seal type

AN = Connection size (coupling size)

› Aluminium

- › **BSP-Female thread**
- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

Sealing rings



AN mm (inch)	Thread inch/mm	Coupling seal type	Item Code
MK 80	BSP 3"	TWF	832.300300.141

KD = Coupling seal type

AN = Connection size (coupling size)

› Stainless steel V4A

Clamping ring with handle



AN mm (inch)	Item Code
MK 50	832.200000.022
MK 80	832.300000.022

AN = Connection size (coupling size)

› Brass

Clamping ring with handle



AN mm (inch)	Item Code
MK 50	832.200000.032
MK 80	832.300000.032

AN = Connection size (coupling size)

2.1.3. Female tank truck couplings

› Aluminium

AN mm (inch)	Item Code
MK 80	832.300000.042

AN = Connection size (coupling size)

Clamping ring with handle



Supplementary products:
Coupling seals TWF, GSD, TWO (see page 139)
Thread sealen GD (see page 134)
Dust plugs VB (see page 80)

2.1.4. Female tank truck couplings with hose fitting for safety clamps

One side female tank truck coupling acc. to EN 14420-6,
other side hose fitting EN 14420 for assembly with safety
clamps.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› 60° triangular grooves (optional)

- › Screwed version (of MK and VSL)
- › Thread seal: Polytetrafluorethylene (PTFE)
- › Coupling seal:
chlorosulfonated polyethylene (CSPE)



			Item Code ... R
AN mm (inch)	DN mm (inch)	Coupling seal type	Item Code
MK 50	32 (1 ¼")	GSD	832.320200.022
MK 50	38 (1 ½")	GSD	832.380200.022
MK 50	50 (2")	GSD	832.500200.022
MK 80	65 (2 ½")	GSD	832.650300.022
MK 80	75 (3")	GSD	832.750300.022
MK 80	80 (3")	GSD	832.800300.022
MK 100	100 (4")	TWO	832.100400.022

DN = Hose inner diameter
AN = Connection size (coupling size)

KD = Coupling seal type
When ordering with grooves state item-# ... + R

MKS



› Stainless steel V4A

- › one-piece
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	DN mm (inch)	Coupling seal type	Item Code
MK 50	50 (2")	GSD	832.500000.020
MK 80	75 (3")	GSD	832.750000.020

DN = Hose inner diameter
AN = Connection size (coupling size)

KD = Coupling seal type

MKS



2.1.4. Female tank truck couplings with hose fitting for safety clamps

› **Stainless steel V4A**

- › one-piece
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

MKS



AN mm (inch)	DN mm (inch)	Coupling seal type	Item Code
MKS 50	50 (2")	TWF	832.500000.02005
MKS 80	75 (3")	TWF	832.750000.02005

DN = Hose inner diameter
 AN = Connection size (coupling size)

KD = Coupling seal type

› **Brass**

- › Screwed version (of MK and VSL)
- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

MKS



AN mm (inch)	DN mm (inch)	Coupling seal type	Item Code
MK 50	32 (1 1/4")	GSD	832.320200.033
MK 50	38 (1 1/2")	GSD	832.380200.033
MK 50	50 (2")	GSD	832.500200.033
MK 80	65 (2 1/2")	GSD	832.650300.033
MK 80	75 (3")	GSD	832.750300.033
MK 80	80 (3")	GSD	832.800300.033
MK 100	100 (4")	TWO	832.100400.033

DN = Hose inner diameter
 AN = Connection size (coupling size)

KD = Coupling seal type

› **Brass**

- › one-piece
- › Coupling seal: Nitrile butadiene rubber (NBR)

MKS



AN mm (inch)	DN mm (inch)	Coupling seal type	Item Code
MK 50	50 (2")	GSD	832.500000.030
MK 80	80 (3")	GSD	832.750000.030

DN = Hose inner diameter
 AN = Connection size (coupling size)

KD = Coupling seal type

› **Aluminium**

- › Screwed version (of MK and VSL)
- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

MKS



AN mm (inch)	DN mm (inch)	Coupling seal type	Item Code
MK 80	75 (3")	TWF	832.750300.044

DN = Hose inner diameter
 AN = Connection size (coupling size)

KD = Coupling seal type



Supplementary products:
 Coupling seals TWF, GSD, TWO (see page 139)
 Dust plugs VB (see page 80)

2.1.5. Dust caps

Dust cap acc. to EN 14420-6, incl. seals.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

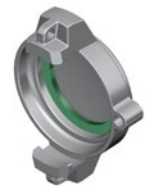
› Stainless steel V4A

- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Coupling seal type	Item Code
MB 50	TWF	832.200000.020
MB 80	TWF	832.300000.020
MB 100	TWO	832.400000.020

KD = Coupling seal type

AN = Connection size (coupling size)



MB

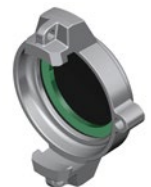
› Stainless steel V4A E-CTFE coated

- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Coupling seal type	Item Code
MB 50	TWF	832.200000.02005
MB 80	TWF	832.300000.02005
MB 100	TWO	832.400000.02005

KD = Coupling seal type

AN = Connection size (coupling size)



MB

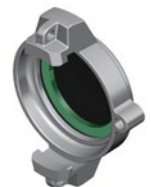
› Stainless steel V4A CF-E-CTFE coated, electrically conductiv

- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Coupling seal type	Item Code
MB 50	TWF	832.200000.02006
MB 80	TWF	832.300000.02006
MB 100	TWO	832.400000.02006

KD = Coupling seal type

AN = Connection size (coupling size)



MB

› Brass

- › Coupling seal: Nitrile butadiene rubber (NBR)

AN mm (inch)	Coupling seal type	Item Code
MB 50	TWF	832.200000.030
MB 80	TWF	832.300000.030

KD = Coupling seal type

AN = Connection size (coupling size)



MB

› Aluminium

- › Coupling seal: Nitrile butadiene rubber (NBR)


AN mm (inch)	Coupling seal type	Item Code
MB 50	TWF	832.200000.040
MB 80	TWF	832.300000.040
MB 100	TWO	832.400000.040

KD = Coupling seal type

AN = Connection size (coupling size)



MB

 Supplementary products:
Tank truck coupling seals
GSD, TWF, TWO (see page 139)
Chains KN (see page 149)

- 2. Quick couplings
- 2.1. Tank truck couplings EN 14420-6

2.1.6. Dust plugs

Tank truck coupling dust plug acc. to EN 14420-6.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

VB



› Stainless steel V4A

AN mm (inch)	Item Code
VB 50	833.200000.020
VB 80	833.300000.020
VB 100	833.400000.020

AN = Connection size (coupling size)

› Stainless steel V4A

E-CTFE coated

VB



AN mm (inch)	Item Code
VB 50	833.200000.02005
VB 80	833.300000.02005
VB 100	833.400000.02005

AN = Connection size (coupling size)

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

VB



AN mm (inch)	Item Code
VB 50	833.200000.02006
VB 80	833.300000.02006
VB 100	833.400000.02006

AN = Connection size (coupling size)

› Brass

VB



AN mm (inch)	Item Code
VB 50	833.200000.030
VB 80	833.300000.030

AN = Connection size (coupling size)

› Aluminium

VB



AN mm (inch)	Item Code
VB 50	833.200000.040
VB 80	833.300000.040
VB 100	833.400000.040

AN = Connection size (coupling size)

2.1.6. Dust plugs

› Polyamide

AN mm (inch)	Item Code
VB 50	833.200000.050
VB 80	833.300000.050
VB 100	833.400000.050

AN = Connection size (coupling size)



VB



Supplementary products:
Chains KN (see page 149)

2.1.7. Protection rings for male tank truck coupling

› Polyamide

DN mm (inch)	Item Code
50 (2")	834.200000.050
80 (3")	834.300000.050
100 (4")	834.400000.050

DN = Hose inner diameter



KSR

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

2. Quick couplings
2.2. Camlock couplings EN 14420-7

2.2.1. Male camlock couplings

Hose fittings

One side male camlock coupling EN 14420-7, other side numerous standardized connection ends.

- › max. operating pressure: 16 bar / 232 PSI (Type E 10 bar / 145 psi), for PP 6 bar / 87 PSI, for AL 10 bar / 145 PSI
- › Operation temperature: -20°C to +65°C

› **Stainless steel V4A**

- › **Typ AF** (with female thread)
- › Thread seal: Polytetrafluorethylene (PTFE)

AN mm (inch)	Thread inch/mm	Item Code
13 (1/2")	BSP 1/2"	850.050050.120
19 (3/4")	BSP 3/4"	850.075075.120
25 (1")	BSP 1"	850.100100.120
32 (1 1/4")	BSP 1 1/4"	850.125125.120
40 (1 1/2")	BSP 1 1/2"	850.150150.120
50 (2")	BSP 2"	850.200200.120
65 (2 1/2")	BSP 2 1/2"	850.250250.120
80 (3")	BSP 3"	850.300300.120
100 (4")	BSP 4"	850.400400.120

AN = Connection size (coupling size)

› **Stainless steel V4A**
E-CTFE coated

- › **Typ AF** (with female thread)
- › Thread seal: Polytetrafluorethylene (PTFE)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSP 1"	850.100100.12005
40 (1 1/2")	BSP 1 1/2"	850.150150.12005
50 (2")	BSP 2"	850.200200.12005
80 (3")	BSP 3"	850.300300.12005
100 (4")	BSP 4"	850.400400.12005

AN = Connection size (coupling size)

› **Stainless steel V4A**
CF-E-CTFE coated, electrically conductiv

- › **Typ AF** (with female thread)
- › Thread seal: Polytetrafluorethylene (PTFE)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSP 1"	850.100100.12006
40 (1 1/2")	BSP 1 1/2"	850.150150.12006
50 (2")	BSP 2"	850.200200.12006
80 (3")	BSP 3"	850.300300.12006
100 (4")	BSP 4"	850.400400.12006

AN = Connection size (coupling size)

› **Brass**

- › **Typ AF** (with female thread)
- › Thread seal: Polyurethane rubber (AU)

AN mm (inch)	Thread inch/mm	Item Code
13 (1/2")	BSP 1/2"	850.050050.130
19 (3/4")	BSP 3/4"	850.075075.130
25 (1")	BSP 1"	850.100100.130

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

2.2.1. Male camlock couplings

AN mm (inch)	Thread inch/mm	Item Code
32 (1 ¼")	BSP 1 ¼"	850.125125.130
40 (1 ½")	BSP 1 ½"	850.150150.130
50 (2")	BSP 2"	850.200200.130
65 (2 ½")	BSP 2 ½"	850.250250.130
80 (3")	BSP 3"	850.300300.130
100 (4")	BSP 4"	850.400400.130

AN = Connection size (coupling size)

› Aluminium

› Typ AF (with female thread)

› Thread seal: Polyurethane rubber (AU)

AN mm (inch)	Thread inch/mm	Item Code
13 (½")	BSP ½"	850.050050.140
19 (¾")	BSP ¾"	850.075075.140
25 (1")	BSP 1"	850.100100.140
32 (1 ¼")	BSP 1 ¼"	850.125125.140
40 (1 ½")	BSP 1 ½"	850.150150.140
50 (2")	BSP 2"	850.200200.140
65 (2 ½")	BSP 2 ½"	850.250250.140
80 (3")	BSP 3"	850.300300.140
100 (4")	BSP 4"	850.400400.140

AN = Connection size (coupling size)

› Polypropylen black

› Typ AF (with female thread)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSPT 1"	850.100100.150
32 (1 ¼")	BSP 1 ¼"	850.125125.150
38 (1 ½")	BSPT 1 ½"	850.150150.150
50 (2")	BSPT 2"	850.200200.150
75 (3")	BSPT 3"	850.300300.150

AN = Connection size (coupling size)



Supplementary products:
Thread sealen GD (see page 134)
Dust plugs VB (see page 80)

AF

Hose fittings

Quick couplings

AF



Adapter

Gaskets

AF



Accessories

Swivel joints

Modular welding system

Technical annex

- 2. Quick couplings
- 2.2. Camlock couplings EN 14420-7

2.2.1. Male camlock couplings

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

FF



› **Stainless steel V4A**

› **Typ FF** (with male thread)

AN mm (inch)	Thread inch/mm	Item Code
13 (1/2")	BSPT 1/2"	856.050050.120
19 (3/4")	BSPT 3/4"	856.075075.120
25 (1")	BSPT 1"	856.100100.120
32 (1 1/4")	BSPT 1 1/4"	856.125125.120
40 (1 1/2")	BSPT 1 1/2"	856.150150.120
50 (2")	BSPT 2"	856.200200.120
65 (2 1/2")	BSPT 2 1/2"	856.250250.120
80 (3")	BSPT 3"	856.300300.120
100 (4")	BSPT 4"	856.400400.120

AN = Connection size (coupling size)

FF



› **Stainless steel V4A**
E-CTFE coated

› **Typ FF** (with male thread)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSPT 1"	856.100100.12005
40 (1 1/2")	BSPT 1 1/2"	856.150150.12005
50 (2")	BSPT 2"	856.200200.12005
65 (2 1/2")	BSPT 2 1/2"	856.250250.12005
80 (3")	BSPT 3"	856.300300.12005
100 (4")	BSPT 4"	856.400400.12005

AN = Connection size (coupling size)

FF



› **Stainless steel V4A**

CF-E-CTFE coated, electrically conductiv

› **Typ FF** (with male thread)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSPT 1"	856.100100.12006
40 (1 1/2")	BSPT 1 1/2"	856.150150.12006
50 (2")	BSPT 2"	856.200200.12006
65 (2 1/2")	BSPT 2 1/2"	856.250250.12006
80 (3")	BSPT 3"	856.300300.12006
100 (4")	BSPT 4"	856.400400.12006

AN = Connection size (coupling size)

FF



› **Brass**

› **Typ FF** (with male thread)

AN mm (inch)	Thread inch/mm	Item Code
13 (1/2")	BSPT 1/2"	856.050050.130
19 (3/4")	BSPT 3/4"	856.075075.130
25 (1")	BSPT 1"	856.100100.130
32 (1 1/4")	BSPT 1 1/4"	856.125125.130
40 (1 1/2")	BSPT 1 1/2"	856.150150.130
50 (2")	BSPT 2"	856.200200.130
65 (2 1/2")	BSPT 2 1/2"	856.250250.130
80 (3")	BSPT 3"	856.300300.130
100 (4")	BSPT 4"	856.400400.130

AN = Connection size (coupling size)

2.2.1. Male camlock couplings

› Aluminium

› Typ FF (with male thread)

AN mm (inch)	Thread inch/mm	Item Code
13 (1/2")	BSPT 1/2"	856.050050.140
19 (3/4")	BSPT 3/4"	856.075075.140
25 (1")	BSPT 1"	856.100100.140
32 (1 1/4")	BSPT 1 1/4"	856.125125.140
40 (1 1/2")	BSPT 1 1/2"	856.150150.140
50 (2")	BSPT 2"	856.200200.140
80 (3")	BSPT 3"	856.300300.140
100 (4")	BSPT 4"	856.400400.140

AN = Connection size (coupling size)



Supplementary products:
Dust plugs DC (see page 96)

› Stainless steel V4A

› Typ E (barbed)

AN mm (inch)	DN mm (inch)	Item Code
13 (1/2")	13 (1/2")	862.013050.200
19 (3/4")	19 (3/4")	862.019075.200
25 (1")	25 (1")	862.025100.200
32 (1 1/4")	32 (1 1/4")	862.032125.200
40 (1 1/2")	38/40 (1 1/2")	862.040150.200
50 (2")	50 (2")	862.050200.200
65 (2 1/2")	63/65 (2 1/2")	862.065250.200
75 (3")	75 (3")	862.075300.200
100 (4")	100 (4")	862.100400.200

DN = Hose inner diameter

AN = Connection size (coupling size)

› Brass

› Typ E (barbed)

AN mm (inch)	DN mm (inch)	Item Code
13 (1/2")	13 (1/2")	862.013050.300
19 (3/4")	19 (3/4")	862.019075.300
25 (1")	25 (1")	862.025100.300
32 (1 1/4")	32 (1 1/4")	862.032125.300
40 (1 1/2")	38/40 (1 1/2")	862.040150.300
50 (2")	50 (2")	862.050200.300
65 (2 1/2")	63/65 (2 1/2")	862.065250.300
75 (3")	75 (3")	862.075300.300
100 (4")	100 (4")	862.100400.300

DN = Hose inner diameter

AN = Connection size (coupling size)

› Aluminium

› Typ E (barbed)

AN mm (inch)	DN mm (inch)	Item Code
13 (1/2")	13 (1/2")	862.013050.400
19 (3/4")	19 (3/4")	862.019075.400
25 (1")	25 (1")	862.025100.400
32 (1 1/4")	32 (1 1/4")	862.032125.400



FF

Hose fittings



E

Quick couplings

Adapter

Gaskets

Accessories



E

Swivel joints



E

Modular welding system

Technical annex

- 2. Quick couplings
- 2.2. Camlock couplings EN 14420-7

2.2.1. Male camlock couplings

E

AN mm (inch)	DN mm (inch)	Item Code
40 (1 1/2")	38/40 (1 1/2")	862.040150.400
50 (2")	50 (2")	862.050200.400
65 (2 1/2")	63/65 (2 1/2")	862.065250.400
75 (3")	75 (3")	862.075300.400
100 (4")	100 (4")	862.100400.400

DN = Hose inner diameter

AN = Connection size (coupling size)



Supplementary products:
Band clamps SZ (see page 13)
Dust plugs DC (see page 96)

› **Stainless steel V4A**

› 60° triangular grooves (optional)

› **Typ EC** (with hose fitting for safety clamps EN 14420-2)



EC



AN mm (inch)	DN mm (inch)	Item Code	Item Code ... R
13 (1/2")	13 (1/2")	868.130050.200	
19 (3/4")	19 (3/4")	868.190075.200	
25 (1")	25 (1")	868.250100.200	
32 (1 1/4")	32 (1 1/4")	868.320125.200	
38 (1 1/2")	38 (1 1/2")	868.380150.200	
50 (2")	50 (2")	868.500200.200	
65 (2 1/2")	63/65 (2 1/2")	868.650250.200	
75 (3")	75 (3")	868.750300.200	
100 (4")	100 (4")	868.100400.200	

DN = Hose inner diameter

AN = Connection size (coupling size)

When ordering with grooves state item-# ... + R

› **Stainless steel V4A**

E-CTFE coated

› **Typ EC** (with hose fitting for safety clamps EN 14420-2)

EC



AN mm (inch)	DN mm (inch)	Item Code
25 (1")	25 (1")	868.250100.20005
38 (1 1/2")	38 (1 1/2")	868.380150.20005
50 (2")	50 (2")	868.500200.20005
65 (2 1/2")	63/65 (2 1/2")	868.650250.20005
75 (3")	75 (3")	868.750300.20005

DN = Hose inner diameter

AN = Connection size (coupling size)

› **Stainless steel V4A**

CF-E-CTFE coated, electrically conductiv

› **Typ EC** (with hose fitting for safety clamps EN 14420-2)

EC



AN mm (inch)	DN mm (inch)	Item Code
25 (1")	25 (1")	868.250100.20006
38 (1 1/2")	38 (1 1/2")	868.380150.20006
50 (2")	50 (2")	868.500200.20006
65 (2 1/2")	63/65 (2 1/2")	868.650250.20006
75 (3")	75 (3")	868.750300.20006

DN = Hose inner diameter

AN = Connection size (coupling size)

2.2.1. Male camlock couplings

› Brass

› Typ EC (with hose fitting for safety clamps EN 14420-2)

AN mm (inch)	DN mm (inch)	Item Code
13 (1/2")	13 (1/2")	868.130050.300
19 (3/4")	19 (3/4")	868.190075.300
25 (1")	25 (1")	868.250100.300
32 (1 1/4")	32 (1 1/4")	868.320125.300
38 (1 1/2")	38 (1 1/2")	868.380150.300
40 (1 1/2")	40 (1 1/2")	868.400150.300
50 (2")	50 (2")	868.500200.300
65 (2 1/2")	63/65 (2 1/2")	868.650250.300
75 (3")	75 (3")	868.750300.300
100 (4")	100 (4")	868.100400.300

DN = Hose inner diameter

AN = Connection size (coupling size)



EC

Hose fittings

Quick couplings

› Aluminium

› Typ EC (with hose fitting for safety clamps EN 14420-2)

AN mm (inch)	DN mm (inch)	Item Code
75 (3")	75 (3")	868.750300.400

DN = Hose inner diameter

AN = Connection size (coupling size)



EC

Adapter

Gaskets

› Polypropylene

› Typ EC (with hose fitting for safety clamps EN 14420-2)

AN mm (inch)	DN mm (inch)	Item Code
25 (1")	25 (1")	868.250100.500
32 (1 1/4")	32 (1 1/4")	868.320125.500
38 (1 1/2")	38 (1 1/2")	868.380150.500
50 (2")	50 (2")	868.500200.500

DN = Hose inner diameter

AN = Connection size (coupling size)



EC

Accessories



Supplementary products:
Safety clamps SC (see page 51)
Dust plugs DC (see page 96)

› Stainless steel V4A

› Flange interface: EN PN 16

› Typ FLA (with fixed flange)

Fitting AN mm (inch)	Flange DN mm (inch)	Item Code
13 (1/2")	15 (1/2")	874.050050.420*
19 (3/4")	20 (3/4")	874.075075.420*
25 (1")	25 (1")	874.100100.420*
32 (1 1/4")	32 (1 1/4")	874.125125.420*
40 (1 1/2")	40 (1 1/2")	874.150150.420*
50 (2")	50 (2")	874.200200.220
65 (2 1/2")	65 (2 1/2")	874.250250.220
80 (3")	80 (3")	874.300300.220
100 (4")	100 (4")	874.400400.220

DN = Nominal size flange
Identical to flange interface PN 40

AN = Connection size (coupling size)



FLA

Swivel joints

Modular welding system

Technical annex

- 2. Quick couplings
- 2.2. Camlock couplings EN 14420-7

2.2.1. Male camlock couplings

Hose fittings

FLA



› **Stainless steel V4A**
E-CTFE coated

› **Flange interface: EN PN 40**
› **Typ FLA** (with fixed flange)

Fitting	Flange	Item Code
AN mm (inch)	DN mm (inch)	
25 (1")	25 (1")	874.100100.42005
40 (1 1/2")	40 (1 1/2")	874.150150.42005

DN = Nominal size flange

AN = Connection size (coupling size)

Quick couplings

FLA



› **Stainless steel V4A**
E-CTFE coated

› **Flange interface: EN PN 16**
› **Typ FLA** (with fixed flange)

Fitting	Flange	Item Code
AN mm (inch)	DN mm (inch)	
50 (2")	50 (2")	874.200200.22005

DN = Nominal size flange

AN = Connection size (coupling size)

Adapter

AW



› **Stainless steel V4A**

› **Typ AW** (with welding end)

AN mm (inch)	Welding end mm	Item Code
13 (1/2")	21,3 x 4,15	875.050021.200
19 (3/4")	26,9 x 2,95	875.075027.200
20 (3/4")	26,9 x 2,3	875.075027.20030
20 (3/4")	33,7 x 2,6	875.075034.20030
25 (1")	33,7 x 4,85	875.100034.200
32 (1 1/4")	42,4 x 2,6	875.125042.20030
32 (1 1/4")	42,4 x 7	875.125042.200
40 (1 1/2")	48,3 x 2,6	875.150048.20030
40 (1 1/2")	48 x 6	875.150048.200
50 (2")	60,3 x 2,9	875.200060.20030
50 (2")	60,3 x 7,15	875.200060.200
65 (2 1/2")	76,1 x 2,9	875.250076.20030
65 (2 1/2")	75,8 x 3,4	875.250076.200
80 (3")	88,9 x 3,2	875.300089.20030
80 (3")	89 x 8	875.300089.200
100 (4")	114,3 x 7,15	875.400114.200

AN = Connection size (coupling size)

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

2.2.2. Female camlock couplings

One side female camlock coupling EN 14420-7, other side numerous standardized connection ends.

- › max. operating pressure: 16 bar / 232 PSI
(Type E 10 bar / 145 psi),
for PP 6 bar / 87 PSI,
for AL 10 bar / 145 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

- › **Typ DF** (with female thread)
- › Thread seal: Polytetrafluorethylene (PTFE)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Thread inch/mm	Item Code
13 (1/2")	BSP 1/2"	853.050050.120
19 (3/4")	BSP 3/4"	853.075075.120
25 (1")	BSP 1"	853.100100.120
32 (1 1/4")	BSP 1 1/4"	853.125125.120
40 (1 1/2")	BSP 1 1/2"	853.150150.120
50 (2")	BSP 2"	853.200200.120
65 (2 1/2")	BSP 2 1/2"	853.250250.120
80 (3")	BSP 3"	853.300300.120
100 (4")	BSP 4"	853.400400.120

AN = Connection size (coupling size)

› Stainless steel V4A

E-CTFE coated

- › **Typ DF** (with female thread)
- › Thread seal: Polytetrafluorethylene (PTFE)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSP 1"	853.100100.12005
50 (2")	BSP 2"	853.200200.12005
65 (2 1/2")	BSP 2 1/2"	853.250250.12005
80 (3")	BSP 3"	853.300300.12005
100 (4")	BSP 4"	853.400400.12005

AN = Connection size (coupling size)

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

- › **Typ DF** (with female thread)
- › Thread seal: Polytetrafluorethylene (PTFE)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSP 1"	853.100100.12006
50 (2")	BSP 2"	853.200200.12006
65 (2 1/2")	BSP 2 1/2"	853.250250.12006
80 (3")	BSP 3"	853.300300.12006
100 (4")	BSP 4"	853.400400.12006

AN = Connection size (coupling size)



- 2. Quick couplings
- 2.2. Camlock couplings EN 14420-7

2.2.2. Female camlock couplings

› Brass

- › **Typ DF** (with female thread)
- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

DF



AN mm (inch)	Thread inch/mm	Item Code
13 (1/2")	BSP 1/2"	853.050050.130
19 (3/4")	BSP 3/4"	853.075075.130
25 (1")	BSP 1"	853.100100.130
32 (1 1/4")	BSP 1 1/4"	853.125125.130
40 (1 1/2")	BSP 1 1/2"	853.150150.130
50 (2")	BSP 2"	853.200200.130
65 (2 1/2")	BSP 2 1/2"	853.250250.130
80 (3")	BSP 3"	853.300300.130
100 (4")	BSP 4"	853.400400.130

AN = Connection size (coupling size)

› Aluminium

- › **Typ DF** (with female thread)
- › Thread seal: Polyurethane rubber (AU)
- › Coupling seal: Nitrile butadiene rubber (NBR)

DF



AN mm (inch)	Thread inch/mm	Item Code
13 (1/2")	BSP 1/2"	853.050050.140
19 (3/4")	BSP 3/4"	853.075075.140
25 (1")	BSP 1"	853.100100.140
32 (1 1/4")	BSP 1 1/4"	853.125125.140
40 (1 1/2")	BSP 1 1/2"	853.150150.140
50 (2")	BSP 2"	853.200200.140
65 (2 1/2")	BSP 2 1/2"	853.250250.140
80 (3")	BSP 3"	853.300300.140
100 (4")	BSP 4"	853.400400.140

AN = Connection size (coupling size)



Supplementary products:
 Coupling seals SKD ([see page 142](#))
 Thread sealen GD ([see page 134](#))
 Dust plugs DP ([see page 97](#))

› Stainless steel V4A

- › **Typ BF** (with male thread)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

BF



AN mm (inch)	Thread inch/mm	Item Code
13 (1/2")	BSPT 1/2"	859.050050.120
19 (3/4")	BSPT 3/4"	859.075075.120
25 (1")	BSPT 1"	859.100100.120
32 (1 1/4")	BSPT 1 1/4"	859.125125.120
40 (1 1/2")	BSPT 1 1/2"	859.150150.120
50 (2")	BSPT 2"	859.200200.120
65 (2 1/2")	BSPT 2 1/2"	859.250250.120
80 (3")	BSPT 3"	859.300300.120
100 (4")	BSPT 4"	859.400400.120

AN = Connection size (coupling size)

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

2.2.2. Female camlock couplings

› Stainless steel V4A

E-CTFE coated

› Typ BF (with male thread)

› Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSPT 1"	859.100100.12005
32 (1 ¼")	BSPT 1 ¼"	859.125125.12005
40 (1 ½")	BSPT 1 ½"	859.150150.12005
50 (2")	BSPT 2"	859.200200.12005

AN = Connection size (coupling size)



BF

Hose fittings

Quick couplings

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

› Typ BF (with male thread)

› Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSPT 1"	859.100100.12006
32 (1 ¼")	BSPT 1 ¼"	859.125125.12006
40 (1 ½")	BSPT 1 ½"	859.150150.12006
50 (2")	BSPT 2"	859.200200.12006

AN = Connection size (coupling size)



BF

Adapter

Gaskets

› Brass

› Typ BF (with male thread)

› Coupling seal: Nitrile butadiene rubber (NBR)

AN mm (inch)	Thread inch/mm	Item Code
13 (½")	BSPT ½"	859.050050.130
19 (¾")	BSPT ¾"	859.075075.130
25 (1")	BSPT 1"	859.100100.130
32 (1 ¼")	BSPT 1 ¼"	859.125125.130
40 (1 ½")	BSPT 1 ½"	859.150150.130
50 (2")	BSPT 2"	859.200200.130
65 (2 ½")	BSPT 2 ½"	859.250250.130
80 (3")	BSPT 3"	859.300300.130

AN = Connection size (coupling size)



BF

Accessories

Swivel joints

› Aluminium

› Typ BF (with male thread)

› Coupling seal: Nitrile butadiene rubber (NBR)

AN mm (inch)	Thread inch/mm	Item Code
13 (½")	BSPT ½"	859.050050.140
19 (¾")	BSPT ¾"	859.075075.140
25 (1")	BSPT 1"	859.100100.140
32 (1 ¼")	BSPT 1 ¼"	859.125125.140
40 (1 ½")	BSPT 1 ½"	859.150150.140



BF

Modular welding system


Technical annex

- 2. Quick couplings
- 2.2. Camlock couplings EN 14420-7

2.2.2. Female camlock couplings

AN mm (inch)	Thread inch/mm	Item Code
50 (2")	BSPT 2"	859.200200.140
80 (3")	BSPT 3"	859.300300.140
100 (4")	BSPT 4"	859.400400.140

AN = Connection size (coupling size)

 Supplementary products:
Coupling seals SKD (see page 142)
Dust plugs DP (see page 97)

› **Stainless steel V4A**

- › **Typ C** (barbed)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	DN mm (inch)	Item Code
13 (1/2")	13 (1/2")	865.013050.200
19 (3/4")	19 (3/4")	865.019075.200
25 (1")	25 (1")	865.025100.200
32 (1 1/4")	32 (1 1/4")	865.032125.200
40 (1 1/2")	38/40 (1 1/2")	865.040150.200
50 (2")	50 (2")	865.050200.200
65 (2 1/2")	63/65 (2 1/2")	865.065250.200
80 (3")	75 (3")	865.075300.200
100 (4")	100 (4")	865.100400.200

DN = Hose inner diameter

AN = Connection size (coupling size)

› **Brass**

- › **Typ C** (barbed)
- › Coupling seal: Nitrile butadiene rubber (NBR)

AN mm (inch)	DN mm (inch)	Item Code
13 (1/2")	13 (1/2")	865.013050.300
19 (3/4")	19 (3/4")	865.019075.300
25 (1")	25 (1")	865.025100.300
32 (1 1/4")	32 (1 1/4")	865.032125.300
40 (1 1/2")	38/40 (1 1/2")	865.040150.300
50 (2")	50 (2")	865.050200.300
100 (4")	100 (4")	865.100400.300

DN = Hose inner diameter

AN = Connection size (coupling size)

› **Aluminium**

- › **Typ C** (barbed)
- › Coupling seal: Nitrile butadiene rubber (NBR)

AN mm (inch)	DN mm (inch)	Item Code
13 (1/2")	13 (1/2")	865.013050.400
25 (1")	25 (1")	865.025100.400
32 (1 1/4")	32 (1 1/4")	865.032125.400
40 (1 1/2")	38/40 (1 1/2")	865.040150.400
50 (2")	50 (2")	865.050200.400
80 (3")	75 (3")	865.075300.400

DN = Hose inner diameter

AN = Connection size (coupling size)

2.2.2. Female camlock couplings

- › **Stainless steel V4A**
- › 60° triangular grooves (optional)

- › **Typ CC** (with hose fitting for safety clamps EN 14420-2)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)



AN mm (inch)	DN mm (inch)	Item Code	Item Code ... R
13 (1/2")	13 (1/2")	871.130050.200	
19 (3/4")	19 (3/4")	871.190075.200	
25 (1")	25 (1")	871.250100.200	
32 (1 1/4")	32 (1 1/4")	871.320125.200	
38 (1 1/2")	38 (1 1/2")	871.380150.200	
50 (2")	50 (2")	871.500200.200	
65 (2 1/2")	63/65 (2 1/2")	871.650250.200	
75 (3")	75 (3")	871.750300.200	
100 (4")	100 (4")	871.100400.200	

DN = Hose inner diameter
When ordering with grooves state item-# ... + R

AN = Connection size (coupling size)



- › **Stainless steel V4A**
- E-CTFE coated

- › **Typ CC** (with hose fitting for safety clamps EN 14420-2)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	DN mm (inch)	Item Code
13 (1/2")	13 (1/2")	871.130050.20005
19 (3/4")	19 (3/4")	871.190075.20005
25 (1")	25 (1")	871.250100.20005
32 (1 1/4")	32 (1 1/4")	871.320125.20005
38 (1 1/2")	38 (1 1/2")	871.380150.20005
50 (2")	50 (2")	871.500200.20005
65 (2 1/2")	63/65 (2 1/2")	871.650250.20005
75 (3")	75 (3")	871.750300.20005

DN = Hose inner diameter

AN = Connection size (coupling size)



- › **Stainless steel V4A**
- CF-E-CTFE coated, electrically conductiv

- › **Typ CC** (with hose fitting for safety clamps EN 14420-2)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

AN mm (inch)	DN mm (inch)	Item Code
25 (1")	25 (1")	871.250100.20006
38 (1 1/2")	38 (1 1/2")	871.380150.20006
50 (2")	50 (2")	871.500200.20006
65 (2 1/2")	63/65 (2 1/2")	871.650250.20006
75 (3")	75 (3")	871.750300.20006

DN = Hose inner diameter

AN = Connection size (coupling size)



- 2. Quick couplings
- 2.2. Camlock couplings EN 14420-7

2.2.2. Female camlock couplings

› Brass

- › **Typ CC** (with hose fitting for safety clamps EN 14420-2)
- › Coupling seal: Nitrile butadiene rubber (NBR)

CC



AN mm (inch)	DN mm (inch)	Item Code
13 (1/2")	13 (1/2")	871.130050.300
19 (3/4")	19 (3/4")	871.190075.300
25 (1")	25 (1")	871.250100.300
38 (1 1/2")	38 (1 1/2")	871.380150.300
40 (1 1/2")	40 (1 1/2")	871.400150.300
50 (2")	50 (2")	871.500200.300
65 (2 1/2")	63/65 (2 1/2")	871.650250.300
75 (3")	75 (3")	871.750300.300
100 (4")	100 (4")	871.100400.300

DN = Hose inner diameter

AN = Connection size (coupling size)

› Aluminium

- › **Typ CC** (with hose fitting for safety clamps EN 14420-2)
- › Coupling seal: Nitrile butadiene rubber (NBR)

CC



AN mm (inch)	DN mm (inch)	Item Code
75 (3")	75 (3")	871.750300.400

DN = Hose inner diameter

AN = Connection size (coupling size)

› Polypropylene

- › **Typ CC** (with hose fitting for safety clamps EN 14420-2)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

CC



AN mm (inch)	DN mm (inch)	Item Code
25 (1")	25 (1")	871.250100.500
32 (1 1/4")	32 (1 1/4")	871.320125.500
38 (1 1/2")	38 (1 1/2")	871.380150.500
50 (2")	50 (2")	871.500200.500

DN = Hose inner diameter

AN = Connection size (coupling size)



Supplementary products:
Coupling seals SKD (see page 142)
Safety clamps SC (see page 51)

› Stainless steel V4A

- › **Flange interface: EN PN 16**
- › **Typ FLC** (with fixed flange)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

FLC



Fitting AN mm (inch)	Flange DN ² mm (inch)	Item Code
19 (3/4")	20 (3/4")	877.075075.420*
25 (1")	25 (1")	877.100100.420*
32 (1 1/4")	32 (1 1/4")	877.125125.420*
40 (1 1/2")	40 (1 1/2")	877.150150.420*

2.2.2. Female camlock couplings

Fitting	Flange	Item Code
AN mm (inch)	DN ² mm (inch)	
50 (2")	50 (2")	877.200200.220
65 (2 1/2")	65 (2 1/2")	877.250250.220
80 (3")	80 (3")	877.300300.220
100 (4")	100 (4")	877.400400.220

DN = Hose inner diameter
Identical to flange interface PN 40

AN = Connection size (coupling size)

› Stainless steel V4A

E-CTFE coated

› Flange interface: EN PN 40

› Typ FLC (with fixed flange)

› Coupling seal: chlorosulfonated polyethylene (CSPE)

Fitting	Flange	Item Code
AN mm (inch)	DN ² mm (inch)	
25 (1")	25 (1")	877.100100.42005

DN² = Nominal size flange

AN = Connection size (coupling size)

› Stainless steel V4A

E-CTFE coated

› Flange interface: EN PN 16

› Typ FLC (with fixed flange)

› Coupling seal: chlorosulfonated polyethylene (CSPE)

Fitting	Flange	Item Code
AN mm (inch)	DN ² mm (inch)	
50 (2")	50 (2")	877.200200.22005

DN² = Nominal size flange

AN = Connection size (coupling size)

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

› Flange interface: EN PN 16

› Typ FLC (with fixed flange)

› Coupling seal: chlorosulfonated polyethylene (CSPE)

Fitting	Flange	Item Code
AN mm (inch)	DN ² mm (inch)	
50 (2")	50 (2")	877.200200.22006

DN² = Nominal size flange

AN = Connection size (coupling size)



Supplementary products:
Coupling seals SKD (see page 142)
Dust plugs DP (see page 97)



FLC

Hose fittings

Quick couplings

Adapter

Gaskets



FLC

Accessories



FLC

Swivel joints

Modular welding system

Technical annex

- 2. Quick couplings
- 2.2. Camlock couplings EN 14420-7

2.2.2. Female camlock couplings

› Stainless steel V4A

› Typ DW (with welding end)

› Coupling seal: chlorosulfonated polyethylene (CSPE)

DW



AN mm (inch)	Welding end mm	Item Code
13 (1/2")	21,3 x 2,0	878.050021.200
19 (3/4")	26,9 x 4,45	878.075027.200
25 (1")	33,7 x 5,35	878.100034.200
32 (1 1/4")	42,4 x 5,2	878.125042.200
40 (1 1/2")	48,3 x 5,15	878.150048.200
50 (2")	60,3 x 6,15	878.200060.200
65 (2 1/2")	76,1 x 8,05	878.250076.200
80 (3")	88,9 x 6,5	878.300089.200
100 (4")	114,3 x 3,6	878.400114.200

AN = Connection size (coupling size)



Supplementary products:
Coupling seals SKD (see page 142)
Dust plugs DP (see page 97)

2.2.3. Dust caps for camlock couplings

Dust caps acc. to EN 14420-7.

- › max. operating pressure: 16 bar / 232 PSI,
for PP 6 bar / 87 PSI,
for AL 10 bar / 145 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

› Coupling seal: chlorosulfonated polyethylene (CSPE)

DC



AN mm (inch)	Item Code
13 (1/2")	883.050000.020
19 (3/4")	883.075000.020
25 (1")	883.100000.020
32 (1 1/4")	883.125000.020
40 (1 1/2")	883.150000.020
50 (2")	883.200000.020
65 (2 1/2")	883.250000.020
80 (3")	883.300000.020
100 (4")	883.400000.020

AN = Connection size (coupling size)

› Brass

› Coupling seal: Nitrile butadiene rubber (NBR)

DC



AN mm (inch)	Item Code
13 (1/2")	883.050000.030
19 (3/4")	883.075000.030
25 (1")	883.100000.030
32 (1 1/4")	883.125000.030
40 (1 1/2")	883.150000.030

2.2.3. Dust caps for camlock couplings

AN mm (inch)	Item Code
50 (2")	883.200000.030
65 (2 1/2")	883.250000.030
80 (3")	883.300000.030
100 (4")	883.400000.030

AN = Connection size (coupling size)

› Aluminium

› Coupling seal: Nitrile butadiene rubber (NBR)

AN mm (inch)	Item Code
13 (1/2")	883.050000.040
19 (3/4")	883.075000.040
25 (1")	883.100000.040
40 (1 1/2")	883.150000.040
50 (2")	883.200000.040
80 (3")	883.300000.040
100 (4")	883.400000.040

AN = Connection size (coupling size)



Supplementary products:
Coupling seals SKD (see page 142)
Chains KN (see page 149)



2.2.4. Dust plugs for camlock couplings

Dust plug acc. to EN 14420.

- › max. operating pressure: 16 bar / 232 PSI,
for PP 6 bar / 87 PSI, for AL 10
bar / 145 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

AN mm (inch)	Item Code
13 (1/2")	880.050000.020
19 (3/4")	880.075000.020
25 (1")	880.100000.020
32 (1 1/4")	880.125000.020
40 (1 1/2")	880.150000.020
50 (2")	880.200000.020
65 (2 1/2")	880.250000.020
80 (3")	880.300000.020
100 (4")	880.400000.020

AN = Connection size (coupling size)



- 2. Quick couplings
- 2.2. Camlock couplings EN 14420-7

2.2.4. Dust plugs for camlock couplings

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

DP



› Brass

AN mm (inch)	Item Code
13 (1/2")	880.050000.030
19 (3/4")	880.075000.030
25 (1")	880.100000.030
32 (1 1/4")	880.125000.030
40 (1 1/2")	880.150000.030
50 (2")	880.200000.030
65 (2 1/2")	880.250000.030
80 (3")	880.300000.030
100 (4")	880.400000.030

AN = Connection size (coupling size)

› Aluminium

DP



AN mm (inch)	Item Code
19 (3/4")	880.075000.040
25 (1")	880.100000.040
40 (1 1/2")	880.150000.040
50 (2")	880.200000.040
65 (2 1/2")	880.250000.040
80 (3")	880.300000.040
100 (4")	880.400000.040

AN = Connection size (coupling size)



Supplementary products:
Chains KN (see page 149)

2.2.5. Lever, bolts and rings

Complete set consisting of lever, bolts and rings.

› Stainless steel V4A

HBR



AN mm (inch)	Item Code
13 (1/2"), 19 (3/4")	886.050000.020
25 (1")	886.100000.020
32 (1 1/4"), 38 (1 1/2"), 40 (1 1/2"), 50 (2"), 65 (2 1/2")	886.125000.020
80 (3"), 100 (4")	886.300000.020

AN = Connection size (coupling size)

2.3.1. Male camlock couplings for latch

One side male camlock coupling compatible with EN 14420-7 with additional notch for latch, other side numerous standardized connection ends.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

- › Typ AFS (with female thread)
- › Thread seal: Polytetrafluorethylene (PTFE)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSP 1"	850.100100.121
40 (1 1/2")	BSP 1 1/2"	850.150150.121
50 (2")	BSP 2"	850.200200.121
80 (3")	BSP 3"	850.300300.121

AN = Connection size (coupling size)



AFS

› Stainless steel V4A

- › Typ FFS (with male thread)

AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSPT 1"	856.100100.121
50 (2")	BSPT 2"	856.200200.121

AN = Connection size (coupling size)



FFS

› Stainless steel V4A

- › 60° triangular grooves (optional)

- › Typ ECS (with hose fitting for safety clamps EN 14420-2)



AN mm (inch)	DN mm (inch)	Item Code	Item Code ... R
25 (1")	25 (1")	868.250100.201	
38 (1 1/2")	38 (1 1/2")	868.380150.201	
50 (2")	50 (2")	868.500200.201	
75 (3")	75 (3")	868.750300.201	

DN = Hose inner diameter

AN = Connection size (coupling size)

When ordering with grooves state item-# ... + R



ECS

› Stainless steel V4A

- › Typ AWS (with welding end)

AN mm (inch)	Welding end mm	Item Code
25 (1")	33,7 x 4,85	875.100034.201
38 (1 1/2")	48 x 6	875.150048.201
50 (2")	60,3 x 7,15	875.200060.201

AN = Connection size (coupling size)



AWS

- 2. Quick couplings
- 2.3. Camlock couplings acc. to EN 14420-7 with safety latch

2.3.2. Female camlock couplings for latch

One side female camlock coupling compatible with EN 14420-7 with additional latch, other side numerous standardized connection ends.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

- › **Typ DFS** (with female thread)
- › Thread seal: Polytetrafluorethylene (PTFE)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)

DFS



AN mm (inch)	Thread inch/mm	Item Code
25 (1")	BSP 1"	853.100100.121
40 (1 1/2")	BSP 1 1/2"	853.150150.121
50 (2")	BSP 2"	853.200200.121
80 (3")	BSP 3"	853.300300.121

AN = Connection size (coupling size)

› Stainless steel V4A

- › 60° triangular grooves (optional)

- › **Typ CCS** (with hose fitting for safety clamps EN 14420-2)
- › Coupling seal: chlorosulfonated polyethylene (CSPE)



CCS



AN mm (inch)	DN mm (inch)	Item Code	Item Code ... R
25 (1")	25 (1")	871.250100.201	
38 (1 1/2")	38 (1 1/2")	871.380150.201	
50 (2")	50 (2")	871.500200.201	
75 (3")	75 (3")	871.750300.201	

DN = Hose inner diameter

AN = Connection size (coupling size)

When ordering with grooves state item-# ... + R

2.3.3. Dust caps for camlock couplings with latch

Dust caps for camlock couplings compatible with EN 14420-7 with additional latch.

› Stainless steel V4A

DCS



AN mm (inch)	Item Code
25 (1")	883.100000.021
40 (1 1/2")	883.150000.021
50 (2")	883.200000.021
80 (3")	883.300000.021

AN = Connection size (coupling size)



Supplementary products:
Chains KN (see page 149)

2.3.4. Dust plugs for camlock couplings with latch

Dust caps for camlock couplings compatible with EN 14420-7 with additional latch.

- › max. operating pressure: 16 bar / 232 PSI
- › Operation temperature: -20°C to +65°C

› Stainless steel V4A

AN mm (inch)	Item Code
25 (1")	880.100000.021
40 (1 1/2")	880.150000.021
50 (2")	880.200000.021
80 (3")	880.300000.021

AN = Connection size (coupling size)



DPS



Supplementary products:
Chains KN ([see page 149](#))



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3.1. Double nipple

Double nipple with equal male thread on both sides.

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

DN



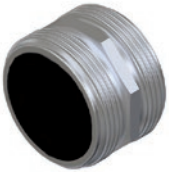
› **Stainless steel V4A**

› **BSP-thread**

AG inch	Item code
BSP 1/2"	410.050050.120
BSP 3/4"	410.075075.120
BSP 1"	410.100100.120
BSP 1 1/4"	410.125125.120
BSP 1 1/2"	410.150150.120
BSP 2"	410.200200.120
BSP 2 1/2"	410.250250.120
BSP 3"	410.300300.120
BSP 4"	410.400400.120

AG = Male thread

DN



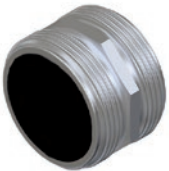
› **Stainless steel V4A**
E-CTFE coated

› **BSP-thread**

AG inch	Item code
BSP 2"	410.200200.12005
BSP 3"	410.300300.12005

AG = Male thread

DN



› **Stainless steel V4A**
CF-E-CTFE coated, electrically conductiv

› **BSP-thread**

AG inch	Item code
BSP 2"	410.200200.12006
BSP 3"	410.300300.12006

AG = Male thread

DN



› **Stainless steel V4A**

› **NPT-thread**

AG inch	Item code
NPT 1"	410.100100.320
NPT 2"	410.200200.320

AG = Male thread

DN



› **Brass**

› **BSP-thread**

AG inch	Item code
BSP 1/2"	410.050050.130
BSP 3/4"	410.075075.130
BSP 1"	410.100100.130
BSP 1 1/4"	410.125125.130
BSP 1 1/2"	410.150150.130
BSP 2"	410.200200.130

3.1. Double nipple

AG inch	Item code
BSP 2 1/2"	410.250250.130
BSP 3"	410.300300.130
BSP 4"	410.400400.130

AG = Male thread

› Brass

› BSP-thread

› conical sealing

AG inch	Item code
BSP 1/2"	411.050050.130
BSP 3/4"	411.075075.130
BSP 1"	411.100100.130
BSP 1 1/4"	411.125125.130
BSP 1 1/2"	411.150150.130
BSP 2"	411.200200.130

AG = Male thread

› Brass

› BSP-thread

› Short version with inner cleats

AG inch	Item code
BSP 2"	430.200200.130

AG = Male thread

› Aluminium

› rail car thread (DIN 11)

AG inch	Item code
5 1/2" WW	410.550550.540

AG = Male thread

› Steel zinc plated

› ACME-thread

Thread seal: Nitrile butadiene rubber (NBR)

AG inch	Item code
ACME 1 3/4"	410.175175.010
ACME 2 1/4"	410.225225.010
ACME 3 1/4"	410.325325.010

AG = Male thread



DN

DN

DN

DN

DN

Hose fittings

Quick couplings

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Accessories

Swivel joints

Modular welding system

Technical annex

3.2. Reducing nipple

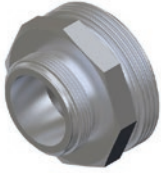
Reducing nipple with unequal male thread on both sides.

Hose fittings

Quick couplings

Adapter

RN



› Stainless steel V4A

› BSP-thread

AG inch	AG inch	Item code
BSP 3/8"	BSP 1/2"	440.038050.112
BSP 1/2"	BSP 3/4"	440.050075.112
BSP 3/4"	BSP 1"	440.075100.112
BSP 1"	BSP 1 1/4"	440.100125.112
BSP 1"	BSP 1 1/2"	440.100150.112
BSP 1"	BSP 2"	440.100200.112
BSP 1 1/4"	BSP 1 1/2"	440.125150.112
BSP 1 1/4"	BSP 2"	440.125200.112
BSP 1 1/2"	BSP 2"	440.150200.112
BSP 2"	BSP 2 1/2"	440.200250.112
BSP 2"	BSP 3"	440.200300.112

AG = Male thread

Gaskets

RN



› Stainless steel V4A

› BSP-thread

› Short version

AG inch	AG inch	Item code
BSP 2"	BSP 3"	460.200300.112
BSP 2 1/2"	BSP 3"	460.250300.112
BSP 3"	BSP 4"	460.300400.112

AG = Male thread

Accessories

RN



› Stainless steel V4A

› BSP-thread to rail car thread (DIN 11)

AG inch	AG inch	Item code
BSP 3"	5 1/2" WW	440.300550.152
BSP 4"	5 1/2" WW	440.400550.152

AG = Male thread

With stud hole

Swivel joints

RN



› Stainless steel V4A

› BSP-thread to NPT-thread

AG inch	AG inch	Item code
BSP 3/4"	NPT 1/2"	440.050075.312
BSP 3/4"	NPT 1"	440.075100.132
BSP 1"	NPT 3/4"	440.075100.312
BSP 1"	NPT 1"	440.100100.132
BSP 1"	NPT 1 1/2"	440.100150.132
BSP 1 1/2"	NPT 1 1/2"	440.150150.132
BSP 1 1/2"	NPT 2"	440.150200.132
BSP 2"	NPT 1 1/2"	440.150200.312
BSP 2"	NPT 2"	440.200200.132
BSP 3"	NPT 3"	440.300300.132

AG = Male thread

Modular welding system

Technical annex

3.2. Reducing nipple

› Stainless steel V4A

› NPT-thread

AG inch	AG inch	Item code
NPT ¾"	NPT 1"	440.075100.332

AG = Male thread

› Stainless steel V4A

› BSP-thread to S-thread

AG inch	AG inch	Item code
S60 x 6	BSP 2"	440.606200.10120

AG = Male thread

› Brass

› BSP-thread

AG inch	AG inch	Item code
BSP ½"	BSP ¾"	440.050075.113
BSP ¾"	BSP 1"	440.075100.113
BSP 1"	BSP 1 ¼"	440.100125.113
BSP 1"	BSP 1 ½"	440.100150.113
BSP 1"	BSP 2"	440.100200.113
BSP 1 ¼"	BSP 1 ½"	440.125150.113
BSP 1 ¼"	BSP 2"	440.125200.113
BSP 1 ½"	BSP 2"	440.150200.113
BSP 1 ½"	BSP 2 ½"	440.150250.113
BSP 2"	BSP 2 ½"	440.200250.113
BSP 2"	BSP 3"	440.200300.113
BSP 2 ½"	BSP 3"	440.250300.113

AG = Male thread

› Brass

› BSP-thread

› Short version with inner cleats

AG inch	AG inch	Item code
BSP 3"	BSP 4"	450.300400.113

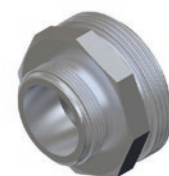
AG = Male thread

› Brass

› BSP-thread to NPT-thread

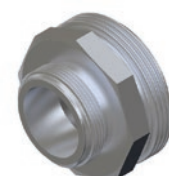
AG inch	AG inch	Item code
BSP ¾"	NPT 1"	440.075100.133
BSP 1"	NPT 1"	440.100100.133
BSP 1 ¼"	NPT 2"	440.125200.133
BSP 1 ½"	NPT 2"	440.150200.133
BSP 2"	NPT 1 ½"	440.150200.313
BSP 2"	NPT 2"	440.200200.133
BSP 3"	NPT 3"	440.300300.133

AG = Male thread



RN

Hose fittings



RN

Quick couplings



RN

Adapter

Gaskets

Accessories



RN

Swivel joints



RN

Modular welding system

Technical annex

- 3. Adapter
- 3.2. Reducing nipple

3.2. Reducing nipple

Hose fittings

RN



› Brass

› BSP-thread to metric thread

AG inch	AG inch	Item code
BSP 1 1/2"	M52 x 1,5	441.150521.143
BSP 2"	M65 x 2	441.200652.143
BSP 3"	M90 x 2	441.300902.143

AG = Male thread

Quick couplings

RN



› Brass

› NPT-thread

AG inch	AG inch	Item code
NPT 1/2"	NPT 3/4"	440.050075.333

AG = Male thread

Adapter

RN



› Aluminium

› BSP-thread

AG inch	AG inch	Item code
BSP 2"	BSP 3"	440.200300.114
BSP 2"	BSP 4"	440.200400.114

AG = Male thread

Gaskets

RN



› Aluminium

› BSP-thread

› Short version with inner cleats

AG inch	AG inch	Item code
BSP 3"	BSP 4"	450.300400.114

AG = Male thread

Accessories

RN



› Aluminium

› BSP-thread to rail car thread (DIN 11)

AG inch	AG inch	Item code
BSP 3"	5 1/2" WW	440.300550.154*
BSP 4"	5 1/2" WW	440.400550.154

AG = Male thread

*With stud hole (same as stainless steel)

Swivel joints

Modular welding system

Technical annex

3.3. Female/male reducer

Female / male reducer one side female thread (IG) other side male thread (AG).

› Stainless steel V4A 1.4401

› IG BSP-thread to AG BSP-thread

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
G 1/2"	BSP 3/4"	500.050075.112
G 1/2"	BSP 1"	500.050100.112
G 3/4"	BSP 1/2"	500.075050.112
G 3/4"	BSP 1"	500.075100.112
G 1"	BSP 3/4"	500.100075.112
G 1"	BSP 1 1/4"	500.100125.112
G 1"	BSP 1 1/2"	500.100150.112
G 1"	BSP 2"	500.100200.112
G 1 1/4"	BSP 1"	500.125100.112
G 1 1/4"	BSP 1 1/2"	500.125150.112
G 1 1/4"	BSP 2"	500.125200.112
G 1 1/2"	BSP 1"	500.150100.112
G 1 1/2"	BSP 1 1/4"	500.150125.112
G 1 1/2"	BSP 2"	500.150200.112
G 2"	BSP 1"	500.200100.112
G 2"	BSP 1 1/4"	500.200125.112
G 2"	BSP 1 1/2"	500.200150.112
G 2"	BSP 2 1/2"	500.200250.112
G 2"	BSP 3"	500.200300.112
G 2 1/2"	BSP 2"	500.250200.112
G 2 1/2"	BSP 3"	500.250300.112
G 3"	BSP 2"	500.300200.112
G 3"	BSP 2 1/2"	500.300250.112
G 3"	BSP 4"	500.300400.112
G 4"	BSP 3"	500.400300.112
G 5"	BSP 4"	500.500400.112

AG = Male thread

IG = Female thread

› Stainless steel V4A

E-CTFE coated

› IG BSP-thread to AG BSP-thread

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
G 1 1/2"	BSP 2"	500.150200.11205
G 2"	BSP 3"	500.200300.11205

AG = Male thread

IG = Female thread

› Stainless steel V4A

CF-E-CTFE coated, electrically conductiv

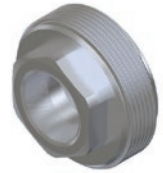
› IG BSP-thread to AG BSP-thread

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
G 2"	BSP 3"	500.200300.11206

AG = Male thread

IG = Female thread



RS

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

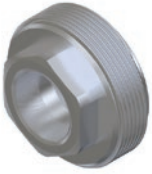
Technical annex

- 3. Adapter
- 3.3. Female/male reducer

3.3. Female/male reducer

Hose fittings

RS



› Stainless steel V4A

› IG BSP-thread to AG NPT-thread

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
G 1"	NPT 3/4"	500.100075.132
G 1"	NPT 1"	500.100100.132
G 1 1/4"	NPT 1"	500.125100.132
G 1 1/2"	NPT 1"	500.150100.132
G 1 1/2"	NPT 1 1/2"	500.150150.132
G 2"	NPT 1"	500.200100.132
G 2"	NPT 1 1/2"	500.200150.132
G 2"	NPT 2"	500.200200.132
G 3"	NPT 3"	500.300300.132
G 4"	NPT 4"	500.400400.132

AG = Male thread

IG = Female thread

Quick couplings

Adapter

› Stainless steel V4A

› IG BSP-thread to AG rail car thread (DIN 11)

Thread seal: Polytetrafluorethylene (PTFE)

RS



IG inch	AG inch	Item code
G 4"	5 1/2" WW	500.400550.152

AG = Male thread

IG = Female thread

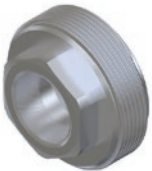
Gaskets

› Stainless steel V4A

› IG NPT-thread to AG BSP-thread

Thread seal: Polytetrafluorethylene (PTFE)

RS



IG inch	AG inch	Item code
NPT 1/2"	BSP 3/4"	500.050075.312
NPT 3/4"	BSP 1"	500.075100.312
NPT 1"	BSP 1"	500.100100.312
NPT 1 1/2"	BSP 1 1/2"	500.150150.312
NPT 1 1/2"	BSP 2"	500.150200.312
NPT 2"	BSP 2"	500.200200.312
NPT 2"	BSP 3"	500.200300.312
NPT 2 1/2"	BSP 2 1/2"	500.250250.312
NPT 3"	BSP 3"	500.300300.312

AG = Male thread

IG = Female thread

Accessories

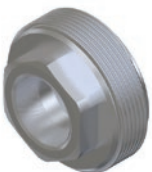
Swivel joints

› Stainless steel V4A

› IG NPT-thread to AG NPT-thread

Thread seal: Polytetrafluorethylene (PTFE)

RS



IG inch	AG inch	Item code
NPT 1"	NPT 1 1/2"	500.100150.332
NPT 1 1/2"	NPT 2"	500.150200.332

AG = Male thread

IG = Female thread

Modular welding system

Technical annex

3.3. Female/male reducer

› Stainless steel V4A

› IG rail car thread (DIN 11) to AG BSP-thread

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
5 1/2" WW	BSP 2"	500.550200.512
5 1/2" WW	BSP 3"	500.550300.512
5 1/2" WW	BSP 4"	500.550400.512

AG = Male thread

IG = Female thread



RS

Hose fittings

Quick couplings

› Stainless steel V4A

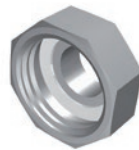
› IG S-thread to AG BSP-thread

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
S60 x 6	BSP 1"	500.606100.10121
S60 x 6	BSP 1 1/2"	500.606150.10121
S60 x 6	BSP 2"	500.606200.10121
S100 x 8	BSP 2"	500.108200.10122

AG = Male thread

IG = Female thread



RS

Adapter

› Brass

› IG BSP-thread to AG BSP-thread

Thread seal: Polyurethane rubber (AU)

IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	500.050050.113
G 1/2"	BSP 3/4"	500.050075.113
G 3/4"	BSP 3/4"	500.075075.113
G 3/4"	BSP 1"	500.075100.113
G 1"	BSP 3/4"	500.100075.113
G 1"	BSP 1"	500.100100.113
G 1"	BSP 1 1/4"	500.100125.113
G 1"	BSP 1 1/2"	500.100150.113
G 1"	BSP 2"	500.100200.113
G 1 1/4"	BSP 1"	500.125100.113
G 1 1/4"	BSP 1 1/4"	500.125125.113
G 1 1/4"	BSP 1 1/2"	500.125150.113
G 1 1/4"	BSP 2"	500.125200.113
G 1 1/2"	BSP 1"	500.150100.113
G 1 1/2"	BSP 1 1/4"	500.150125.113
G 1 1/2"	BSP 1 1/2"	500.150150.113
G 1 1/2"	BSP 2"	500.150200.113
G 2"	BSP 1"	500.200100.113
G 2"	BSP 1 1/4"	500.200125.113
G 2"	BSP 1 1/2"	500.200150.113
G 2"	BSP 2"	500.200200.113
G 2"	BSP 2 1/2"	500.200250.113
G 2"	BSP 3"	500.200300.113
G 2 1/2"	BSP 2"	500.250200.113
G 2 1/2"	BSP 2 1/2"	500.250250.113
G 2 1/2"	BSP 3"	500.250300.113
G 3"	BSP 2"	500.300200.113
G 3"	BSP 2 1/2"	500.300250.113



RS

Gaskets

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Swivel joints

Modular welding system


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- 3. Adapter
- 3.3. Female/male reducer


3.3. Female/male reducer


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RS		IG inch	AG inch	Item code
		G 3"	BSP 3"	500.300300.113
		G 3"	BSP 4"	500.300400.113
		G 3 1/2"	BSP 3"	500.350300.113
		G 4"	BSP 3"	500.400300.113
		AG = Male thread		IG = Female thread
		› Brass		› IG BSP-thread to AG NPT-thread Thread seal: Polyurethane rubber (AU)

RS		IG inch	AG inch	Item code
		G 1"	NPT 1"	500.100100.133
		G 2"	NPT 2"	500.200200.133
		G 3"	NPT 3"	500.300300.133
		AG = Male thread		IG = Female thread
		› Brass		› IG NPT-thread to AG BSP-thread Thread seal: Polyurethane rubber (AU)

RS		IG inch	AG inch	Item code
		NPT 3/4"	BSP 3/4"	500.075075.313
		NPT 1"	BSP 1"	500.100100.313
		NPT 1"	BSP 2"	500.100200.313
		NPT 2"	BSP 2"	500.200200.313
		NPT 3"	BSP 3"	500.300300.313
		AG = Male thread		IG = Female thread
		› Brass		› IG rail car thread (DIN 11) to AG BSP-thread Thread seal: Polyurethane rubber (AU)

RS		IG inch	AG inch	Item code
		5 1/2" WW	BSP 3"	500.550300.513
		5 1/2" WW	BSP 4"	500.550400.513
		AG = Male thread		IG = Female thread
		› Brass tin coated		› IG BSP-thread to AG BSP-thread Thread seal: Polyurethane rubber (AU)

RS		IG inch	AG inch	Item code
		G 1 1/2"	BSP 2"	500.150200.11303
		G 2"	BSP 2 1/2"	500.200250.11303
		G 3"	BSP 4"	500.300400.11303
		AG = Male thread		IG = Female thread

3.3. Female/male reducer

› Aluminium

› IG BSP-thread to AG rail car thread (DIN 11)

Thread seal: Polyurethane rubber (AU)

IG inch	AG inch	Item code
G 4"	5 ½" WW	500.400550.154

AG = Male thread

IG = Female thread



RS

Hose fittings

› Aluminium

› IG rail car thread (DIN 11) to AG BSP-thread

Thread seal: Polyurethane rubber (AU)

IG inch	AG inch	Item code
5 ½" WW	BSP 3"	500.550300.514
5 ½" WW	BSP 4"	500.550400.514

AG = Male thread

IG = Female thread



RS

Quick couplings

› Steel zinc plated

› IG BSP-thread to AG rail car thread (DIN 11)

Thread seal: Polyurethane rubber (AU)

IG inch	AG inch	Item code
G 4"	5 ½" WW	520.400550.15101

AG = Male thread

IG = Female thread



RS

Gaskets

› Steel zinc plated

› IG ACME-thread to AG NPT-thread

› rotatable Swivel nut: brass

IG inch	AG inch	Item code
ACME 1 ¾"	NPT 1"	160.175100.031
ACME 2 ¼"	NPT 1 ¼"	160.225125.031
ACME 3 ¼"	NPT 2"	160.325200.031

AG = Male thread

IG = Female thread



RS

Accessories

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Adapter

- 3. Adapter
- 3.4. Double socket

3.4. Double socket

Double socket with equal female thread on both sides.

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

DM



› **Stainless steel V4A**

› **BSP-thread**

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	Item code
G 1/4"	700.025025.120
G 1/2"	700.050050.120
G 3/4"	700.075075.120
G 1"	700.100100.120
G 1 1/4"	700.125125.120
G 1 1/2"	700.150150.120
G 2"	700.200200.120
G 2 1/2"	700.250250.120
G 3"	700.300300.120

IG = Female thread

› **Brass**

› **BSP-thread**

Thread seal: Polyurethane rubber (AU)

DM



IG inch	Item code
G 3/4"	700.075075.130
G 1"	700.100100.130
G 1 1/4"	700.125125.130
G 1 1/2"	700.150150.130
G 2"	700.200200.130
G 2 1/2"	700.250250.130
G 3"	700.300300.130
G 4"	700.400400.130

IG = Female thread

› **Brass tin coated**

› **BSP-thread**

Thread seal: Polyurethane rubber (AU)

DM



IG inch	Item code
G 3"	700.300300.13003

IG = Female thread

3.5. Reducing socket

Reducing socket with unequal female thread on both sides.

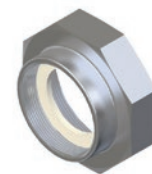
› Stainless steel V4A

› BSP-thread

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	IG 2 inch	Item code
G 1/2"	G 3/4"	710.050075.112
G 1/2"	G 1"	710.050100.112
G 1"	G 1"	710.075100.112
G 1"	G 1 1/4"	710.100125.112
G 1"	G 1 1/2"	710.100150.112
G 1"	G 2"	710.100200.112
G 1 1/4"	G 1 1/2"	710.125150.112
G 1 1/2"	G 2"	710.150200.112
G 1 1/2"	G 2 1/2"	710.150250.112
G 2 1/2"	G 3"	710.250300.112

IG = Female thread



RM

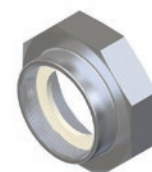
› Stainless steel V4A

› S-thread to BSP-thread

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	IG 2 inch	Item code
S60 x 6	G 2"	710.606200.10121

IG = Female thread



RM

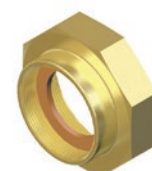
› Brass

› BSP-thread

Thread seal: Polyurethane rubber (AU)

IG inch	IG 2 inch	Item code
G 1"	G 1 1/2"	710.100150.113
G 1"	G 2"	710.100200.113
G 1 1/4"	G 1 1/2"	710.125150.113
G 1 1/4"	G 2"	710.125200.113
G 1 1/2"	G 2"	710.150200.113
G 1 1/2"	G 2 1/2"	710.150250.113
G 2"	G 2 1/2"	710.200250.113
G 2"	G 3"	710.200300.113
G 2 1/2"	G 3"	710.250300.113
G 3"	G 4"	710.300400.113

IG = Female thread



RM

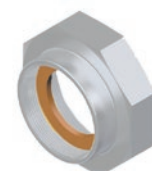
› Brass tin coated

› BSP-thread

Thread seal: Polyurethane rubber (AU)

IG inch	IG 2 inch	Item code
G 3"	G 4"	710.300400.11303

IG = Female thread



RM

Hose fittings

Quick couplings

Adapter

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3.6. Dust caps

Dust cap with female thread.

Hose fittings

Quick couplings

Adapter

Gaskets

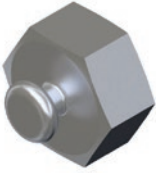
Accessories

Swivel joints

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BK



› **Stainless steel V4A**

› **BSP-thread**

Thread seal: Polytetrafluorethylene (PTFE)

IG inch	Item code
G 1/2"	250.050000.120
G 3/4"	250.075000.120
G 1"	250.100000.120
G 1 1/4"	250.125000.120
G 1 1/2"	250.150000.120
G 2"	250.200000.120
G 2 1/2"	250.250000.120
G 3"	250.300000.120
G 4"	250.400000.120

IG = Female thread

› **Stainless steel V4A**

› **rail car thread (DIN 11)**

Thread seal: Polytetrafluorethylene (PTFE)

BK



IG inch	Item code
5 1/2" WW	250.550000.520

IG = Female thread

› **Brass**

› **BSP-thread**

Thread seal: Polyurethane rubber (AU)

BK



IG inch	Item code
G 1/2"	250.050000.130
G 3/4"	250.075000.130
G 1"	250.100000.130
G 1 1/4"	250.125000.130
G 1 1/2"	250.150000.130
G 2"	250.200000.130
G 2 1/2"	250.250000.130
G 3"	250.300000.130
G 4"	250.400000.130

IG = Female thread

› **Aluminium**

› **rail car thread (DIN 11)**

Thread seal: Polyurethane rubber (AU)

BK



IG inch	Item code
5 1/2" WW	250.550000.540

IG = Female thread

3.7. Dust plugs

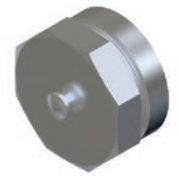
Dust plugs with male thread.

› Stainless steel V4A

› BSP-thread, BSPT-thread

AG inch	Item code
BSPT 1/2"	680.050000.120
BSP 1"	680.100000.120
BSP 1 1/4"	680.125000.120

AG = Male thread



BS

› Brass

› BSP-thread

AG inch	Item code
BSP 1"	680.100000.130
BSP 1 1/4"	680.125000.130
BSP 1 1/2"	680.150000.130
BSP 2"	680.200000.130
BSP 2 1/2"	680.250000.130
BSP 3"	680.300000.130

AG = Male thread



BS

› Aluminium

› rail car thread (DIN 11)

AG inch	Item code
5 1/2" WW	680.550000.540

AG = Male thread



BS

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3.8. Welding nipple

Welding nipple one side male thread other side numerous welding ends.

› Stainless steel V4A

› BSP-thread, BSPT-thread

› ISO 1127 row 1

AN



AG inch	Welding end mm	Item code
BSPT 1/2"	21,3 x 2,0	401.050000.12030
BSPT 3/4"	26,9 x 2,3	401.075000.12030
BSP 1"	33,7 x 2,6	401.100000.12030
BSP 1 1/4"	42,4 x 2,6	401.125000.12030
BSP 1 1/2"	48,3 x 2,6	401.150000.12030
BSP 2"	60,3 x 2,9	401.200000.12030
BSP 2"	60,3 x 2,9	401.200100.12030*
BSP 2 1/2"	76,1 x 2,9	401.250000.12030
BSP 3"	88,9 x 3,2	401.300000.12030
BSP 3"	88,9 x 3,2	401.300100.12030*
BSP 4"	114,3 x 3,6	401.400000.12030
BSP 4"	114,3 x 3,6	401.400120.12030*
BSP 5"	139,7 x 4,0	401.500000.12030
BSP 6"	168,3 x 4,5	401.600000.12030

AG = Male thread

*longer version

› Stainless steel V4A

› BSP-thread, BSPT-thread

› Welding end with larger wall size

AN



AG inch	Welding end mm	Item code
BSPT 1/2"	22 x 4,5	401.050000.120
BSPT 3/4"	27 x 4,5	401.075000.120
BSP 1"	34 x 5,0	401.100000.120
BSP 1 1/4"	42 x 5,0	401.125000.120
BSP 1 1/2"	48,3 x 5,15	401.150000.120
BSP 2"	60 x 6,0	401.200000.120
BSP 2"	60 x 6,0	401.200100.120*
BSP 2 1/2"	76 x 6,0	401.250000.120
BSP 3"	88,9 x 5,95	401.300000.120
BSP 3"	60 x 6,0	401.300100.120*
BSP 4"	114,3 x 7,15	401.400000.120
BSP 5"	139,7 x 7,35	401.500000.120

AG = Male thread

*longer version

› Stainless steel V4A

› NPT-thread

› ISO 1127 row 1

AN



AG inch	Welding end mm	Item code
NPT 1"	114,3 x 3,6	401.400000.32030

AG = Male thread

3.8. Welding nipple

› Stainless steel V4A

› NPT-thread

› Welding end with larger wall size

AG inch	Welding end mm	Item code
NPT 1"	34 x 6,0	401.100000.320
NPT 2"	60 x 6,0	401.200000.320
NPT 2 1/2"	76 x 6,0	401.250000.320
NPT 3"	90 x 7,5	401.300000.320

AG = Male thread



AN

Hose fittings

› Stainless steel V4A

› rail car thread (DIN 11)

› ISO 1127 row 1

AG inch	Welding end mm	Item code
5 1/2" WW	114,3 x 3,6	401.550000.52030

AG = Male thread



AN

Quick couplings

Adapter

› Stainless steel V4A

› Rd.-thread

› ISO 1127 row 1

AG inch	Welding end mm	Item code
Rd. 34 x 1/8"	21,3 x 2,0	401.348021.62030
Rd. 44 x 1/6"	26,9 x 2,3	401.446027.62030
Rd. 44 x 1/6"	33,7 x 2,6	401.446034.62030
Rd. 52 x 1/6"	33,7 x 2,6	401.526034.62030
Rd. 58 x 1/6"	42,4 x 2,6	401.586042.62030
Rd. 65 x 1/6"	48,3 x 2,6	401.656048.62030
Rd. 78 x 1/6"	60,3 x 2,9	401.786060.62030
Rd. 95 x 1/6"	76,1 x 2,9	401.956076.62030
Rd. 110 x 1/4"	88,9 x 3,2	401.114089.62030
Rd. 130 x 1/4"	114,3 x 3,6	401.134114.62030

AG = Male thread



ANM

Gaskets

Accessories

› Stainless steel V2A

› Rd.-thread

› ISO 1127 row 1

AG inch	Welding end mm	Item code
Rd. 34 x 1/8"	21,3 x 2,0	401.348021.66030
Rd. 44 x 1/6"	26,9 x 2,3	401.446027.66030
Rd. 52 x 1/6"	33,7 x 2,6	401.526034.66030
Rd. 58 x 1/6"	42,4 x 2,6	401.586042.66030
Rd. 65 x 1/6"	48,3 x 2,6	401.656048.66030
Rd. 78 x 1/6"	60,3 x 2,9	401.786060.66030
Rd. 95 x 1/6"	76,1 x 2,9	401.956076.66030
Rd. 110 x 1/4"	88,9 x 3,2	401.114089.66030
Rd. 130 x 1/4"	114,3 x 3,6	401.134114.66030

AG = Male thread



ANM

Swivel joints

Modular welding system

Technical annex

3.8. Welding nipple

Hose fittings

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Accessories

Swivel joints

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AN



› Steel

› BSP-thread, BSPT-thread

› ISO 1127 row 1

AG inch	Welding end mm	Item code
BSPT 1/2"	21,3 x 2,0	401.050000.11030
BSPT 3/4"	26,9 x 2,3	401.075000.11030
BSP 1"	33,7 x 2,6	401.100000.11030
BSP 1 1/4"	42,4 x 2,6	401.125000.11030
BSP 1 1/2"	48,3 x 2,6	401.150000.11030
BSP 2"	60,3 x 2,9	401.200000.11030
BSP 2 1/2"	76,1 x 2,9	401.250000.11030
BSP 3"	88,9 x 3,2	401.300000.11030
BSP 4"	114,3 x 3,6	401.400000.11030
BSP 5"	139,7 x 4,0	401.500000.11030
BSP 6"	168,3 x 4,5	401.600000.11030

AG = Male thread

› Steel

› BSP-thread, BSPT-thread

› Welding end with larger wall size

AN



AG inch	Welding end mm	Item code
BSPT 1/2"	21,3 x 4,15	401.050000.110
BSPT 3/4"	26,9 x 4,45	401.075000.110
BSP 1"	33,7 x 4,85	401.100000.110
BSP 1 1/4"	42,4 x 5,2	401.125000.110
BSP 1 1/2"	48,3 x 5,15	401.150000.110
BSP 2"	60,3 x 6,15	401.200000.110
BSP 2 1/2"	76,1 x 6,05	401.250000.110
BSP 3"	88,9 x 5,95	401.300000.110
BSP 4"	114,3 x 7,15	401.400000.110
BSP 5"	139,7 x 7,35	401.500000.110
BSP 6"	165 x 8,75	401.600000.110

AG = Male thread

› Steel

› NPT-thread

AN



AG inch	Welding end mm	Item code
NPT 1/2"	22 x 4,5	401.050000.310
NPT 3/4"	27 x 4,5	401.075000.310
NPT 1"	33,7 x 4,85	401.100000.310
NPT 1 1/4"	42 x 5,0	401.125000.310
NPT 1 1/2"	48,3 x 5,15	401.150000.310
NPT 2"	60,3 x 6,15	401.200000.310
NPT 2 1/2"	75 x 6,0	401.250000.310
NPT 3"	88,9 x 5,95	401.300000.310
NPT 4"	114,3 x 7,15	401.400000.310
NPT 5"	142 x 8,0	401.500000.310
NPT 6"	168,3 x 10	401.600000.310

AG = Male thread

3.8. Welding nipple

› Steel

› rail car thread (DIN 11)

› ISO 1127 row 1

AG inch	Welding end mm	Item code
5 1/2" WW	114,3 x 3,6	401.550000.51030

AG = Male thread

› Aluminium

› BSP-thread, BSPT-thread

› Welding end with larger wall size

AG inch	Welding end mm	Item code
BSPT 1/2"	22 x 4,5	401.050000.140
BSPT 3/4"	27 x 4,5	401.075000.140
BSP 1"	34 x 5,5	401.100000.140
BSP 1 1/4"	42 x 5,0	401.125000.140
BSP 1 1/2"	48 x 5,5	401.150000.140
BSP 2"	60 x 6,0	401.200000.140
BSP 3"	90 x 8,0	401.300000.140
BSP 4"	114,3 x 7,15	401.400000.140

AG = Male thread



AN

Hose fittings



AN

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

3.9.1. Welding sockets

One side female thread, other side various welding ends.

› **Stainless steel V4A**

› ISO 1127 row 1

AMF



IG inch	Welding end mm	Item code
BSP 1/2"	21,3 x 2,0	720.050000.12030
19 (3/4")	26,9 x 2,3	720.075000.12030
25 (1")	33,7 x 2,6	720.100000.12030
BSP 1 1/4"	42,4 x 2,6	720.125000.12030
40 (1 1/2")	48,3 x 2,6	720.150000.12030
50 (2")	60,3 x 2,9	720.200000.12030
65 (2 1/2")	76,1 x 2,9	720.250000.12030
80 (3")	88,9 x 3,2	720.300000.12030
100 (4")	114,3 x 3,6	720.400000.12030

IG = Female thread

3.9.2. Welding sockets rotatable

One side rotatable female thread, other side various welding ends.

› **Stainless steel V4A**

› **BSP-thread**

Thread seal: Polytetrafluorethylene (PTFE)

› ISO 1127 row 1

AMD



IG inch	Welding end mm	Item code
1/2"	21,3 x 2,0	721.050021.12030
3/4"	26,9 x 2,3	721.075027.12030
1"	33,7 x 2,6	721.100034.12030
1 1/4"	42,4 x 2,6	721.125042.12030
1 1/2"	48,3 x 2,6	721.150048.12030
2"	60,3 x 2,9	721.200060.12030
2"	76,1 x 2,9	721.250076.12030
3"	88,9 x 3,2	721.300089.12030

IG = Female thread

› **Stainless steel V4A**

› **rail car thread (DIN 11)**

Thread seal: Polytetrafluorethylene (PTFE)

› ISO 1127 row 1

AMD



IG inch	Welding end mm	Item code
5 1/2"	88,9 x 3,2	101.550089.522
5 1/2"	114,3 x 3,6	101.550114.522

IG = Female thread

3.9.2. Welding sockets rotatable

› Stainless steel V4A

› S-thread

Thread seal: Polytetrafluorethylene (PTFE)

› ISO 1127 row 1

IG inch	Welding end mm	Item code
S60 x 6	26,9 x 2,3	101.606027.12201
S60 x 6	33,7 x 2,6	101.606034.12201
S60 x 6	42,4 x 2,6	101.606042.12201
S60 x 6	48,3 x 2,6	101.606048.12201
S60 x 6	60,3 x 2,9	101.606060.12201

IG = Female thread



AMD

Hose fittings

Quick couplings

› Stainless steel V4A

› Rd.-thread

› ISO 1127 row 1

IG inch	Welding end mm	Item code
Rd. 34 x 1/8"	21,3 x 2	101.348021.62230
Rd. 44 x 1/6"	26,9 x 2,3	101.446027.62230
Rd. 52 x 1/6"	33,7 x 2,6	101.526034.62230
Rd. 58 x 1/6"	42,4 x 2,6	101.586042.62230
Rd. 55 x 1/6"	48,3 x 2,6	101.656048.62230
Rd. 78 x 1/6"	60,3 x 2,9	101.786060.62230
Rd. 95 x 1/6"	76,1 x 2,9	101.956076.62230
Rd. 110 x 1/4"	88,9 x 3,2	101.114089.62230
Rd. 130 x 1/4"	114,3 x 3,6	101.134114.62230

IG = Female thread



AMD

Adapter

Gaskets

› Stainless steel V2A

› Rd.-thread

› ISO 1127 row 1

IG inch	Welding end mm	Item code
Rd. 65 x 1/6"	48,3 x 2,6	101.656048.66630
Rd. 78 x 1/6"	60,3 x 2,9	101.786060.66630

IG = Female thread



AMD

Accessories

Swivel joints

› Steel

› rail car thread (DIN 11)

Thread seal: Polytetrafluorethylene (PTFE)

› ISO 1127 row 1

IG inch	Welding end mm	Item code
5 1/2"	114,3 x 3,6	101.550114.511

IG = Female thread



AMD

Modular welding system

Technical annex

3.10. Flanged threaded nipple

Flanged threaded nipple one side fixed flange other side male thread.

› **Stainless steel V4A**

› **Flange interface: EN PN 40**
› **BSP-thread, BSPT-thread**

FGN



DN mm (inch)	Thread inch	Item code
15 (1/2")	BSPT 1/2"	931.015050.412
19 (3/4")	BSPT 3/4"	931.020075.412
25 (1")	BSP 1"	931.025100.412
32 (1 1/4")	BSP 1 1/4"	931.032125.412
32 (1 1/4")	BSP 1 1/2"	931.032150.412*
40 (1 1/2")	BSPT 3/4"	931.040075.412*
40 (1 1/2")	BSP 1 1/2"	931.040150.412
40 (1 1/2")	BSP 2"	931.040200.412*
50 (2")	BSPT 3/4"	931.050075.412*
50 (2")	BSP 1 1/2"	931.050150.412*
50 (2")	BSP 2"	931.050200.412
50 (2")	BSP 3"	931.050300.412*
65 (2 1/2")	BSP 2 1/2"	931.065250.412
80 (3")	BSP 2"	931.080200.412*
80 (3")	BSP 3"	931.080300.412
100 (4")	BSP 4"	931.100400.412
125 (5")	BSP 5"	931.125500.412
150 (6")	BSP 6"	931.150600.412

DN = Nominal size flange

*longer version

› **Stainless steel V4A**

› **Flange interface: EN PN 16**
› **BSP-thread, BSPT-thread**

FGN



DN mm (inch)	Thread inch	Item code
For smaller nominal diameters see PN 40		
50 (2")	BSPT 3/4"	931.050075.212*
50 (2")	BSP 1"	931.050100.212*
50 (2")	BSP 2"	931.050200.212
50 (2")	BSPT 2"	931.050200.222
50 (2")	BSP 3"	931.050300.212*
65 (2 1/2")	BSP 2"	931.065200.212*
65 (2 1/2")	BSP 2 1/2"	931.065250.212
65 (2 1/2")	BSP 3"	931.065300.212*
80 (3")	BSP 2"	931.080200.212*
80 (3")	BSPT 2"	931.080200.222*
80 (3")	BSP 2 1/2"	931.080250.212*
80 (3")	BSP 3"	931.080300.212
80 (3")	BSPT 3"	931.080300.222
80 (3")	BSP 4"	931.080400.212*
100 (4")	BSP 3"	931.100300.212*
100 (4")	BSP 4"	931.100400.212
125 (5")	BSP 5"	931.125500.212
150 (6")	BSP 6"	931.150600.212

DN = Nominal size flange

*longer version

3.10. Flanged threaded nipple

› **Stainless steel V4A**
E-CTFE coated

› **Flange interface: EN PN 16**
› **BSP-thread**

DN mm (inch)	Thread inch	Item code
25 (1")	BSP 1"	931.025100.41205*
50 (2")	BSP 2"	931.050200.21205
80 (3")	BSP 3"	931.080300.21205

DN = Nominal size flange

*Identical to flange interface PN 40



FGN

Hose fittings

› **Stainless steel V4A**
CF-E-CTFE coated, electrically conductiv

› **Flange interface: EN PN 16**
› **BSP-thread**

DN mm (inch)	Thread inch	Item code
25 (1")	BSP 1"	931.025100.41206*
50 (2")	BSP 2"	931.050200.21206
80 (3")	BSP 3"	931.080300.21206

DN = Nominal size flange

*Identical to flange interface PN 40



FGN

Quick couplings

Adapter

› **Stainless steel V4A**

› **Flange interface: EN PN 40**
› **NPT-thread**

DN mm (inch)	Thread inch	Item code
25 (1")	NPT 1"	931.025100.432

DN = Nominal size flange



FGN

Gaskets

› **Stainless steel V4A**

› **Flange interface: ASME 150 PSI**
› **NPT-thread**

DN mm (inch)	Thread inch	Item code
50 (2")	NPT 2"	941.050200.232
80 (3")	NPT 3"	941.080300.232

DN = Nominal size flange



FGN

Accessories

› **Stainless steel V4A**

› **Flange interface: EN PN 16**
› **rail car thread (DIN 11)**

DN mm (inch)	Thread inch	Item code
100 (4")	5 1/2" WW	931.100550.252

DN = Nominal size flange



FGN

Swivel joints

Modular welding system

› **Stainless steel V4A**

› **Flange interface: EN PN 40**
› **Rd.-thread**

DN mm (inch)	Thread inch	Item code
25 (1")	Rd. 44 x 1/6"	931.025446.462

DN = Nominal size flange



FGN

Technical annex

3.10. Flanged threaded nipple

› Stainless steel V4A

› Flange interface: ASME 150 PSI
› BSP-thread, BSPT-thread

FGN



DN mm (inch)	Thread inch	Item code
20 (¾")	BSPT ¾"	941.020075.212
25 (1")	BSP 1"	941.025100.212
32 (1 ¼")	BSP 1 ¼"	941.032125.212
40 (1 ½")	BSP 1"	941.040100.212*
40 (1 ½")	BSP 1 ½"	941.040150.212
40 (1 ½")	BSP 2"	941.040200.212*
40 (1 ½")	BSPT 2"	941.040200.222*
50 (2")	BSPT ¾"	941.050075.212*
50 (2")	BSP 1"	941.050100.212*
50 (2")	BSP 1 ½"	941.050150.212*
50 (2")	BSP 2"	941.050200.212
50 (2")	BSPT 2"	941.050200.222
65 (2 ½")	BSP 2 ½"	941.065250.212
80 (3")	BSP 2"	941.080200.212*
80 (3")	BSPT 2"	941.080200.222*
80 (3")	BSP 3"	941.080300.212
100 (4")	BSP 3"	941.100300.212*
100 (4")	BSP 4"	941.100400.212

DN = Nominal size flange

*longer version

› Stainless steel V4A

› Flange interface: EN PN 16
› NPT-thread

FGN



DN mm (inch)	Thread inch	Item code
50 (2")	NPT 2"	931.050200.232

DN = Nominal size flange

› Stainless steel V4A

› Flange interface: ASME 300 PSI
› BSP-thread

FGN



DN mm (inch)	Thread inch	Item code
20 (¾")	BSPT ¾"	941.020075.412
25 (1")	BSP 1"	941.025100.412
32 (1 ¼")	BSP 1 ¼"	941.032125.412
40 (1 ½")	BSP 1 ½"	941.040150.412
50 (2")	BSP 2"	941.050200.412
80 (3")	BSP 3"	941.080300.412

DN = Nominal size flange

› Steel zinc plated

› Flange interface: EN PN 40
› BSP-thread, BSPT-thread

FGN



DN mm (inch)	Thread inch	Item code
15 (½")	BSP ½"	931.015050.411
20 (¾")	BSPT ¾"	931.020075.411
25 (1")	BSPT ¾"	931.025075.411*
25 (1")	BSP 1"	931.025100.411

3.10. Flanged threaded nipple

DN mm (inch)	Thread inch	Item code
25 (1")	BSP 1 1/2"	931.025150.411*
32 (1 1/4")	BSP 1 1/4"	931.032125.411
40 (1 1/2")	BSP 1"	931.040100.411*
40 (1 1/2")	BSP 1 1/2"	931.040150.411
40 (1 1/2")	BSP 2"	931.040200.411*
50 (2")	BSP 3/4"	931.050075.411*
50 (2")	BSP 1 1/4"	931.050125.411*
50 (2")	BSP 1 1/2"	931.050150.411*
50 (2")	BSP 2"	931.050200.411
50 (2")	BSP 2 1/2"	931.050250.411*
65 (2 1/2")	BSP 2"	931.065250.411
80 (3")	BSP 3"	931.080300.411
100 (4")	BSP 3"	931.100300.411*
125 (5")	BSP 3"	931.125300.411
125 (5")	BSP 5"	931.125500.411

DN = Nominal size flange

*longer version

› Steel zinc plated

› Flange interface: EN PN 40 › NPT-thread

DN mm (inch)	Thread inch	Item code
25 (1")	NPT 1"	931.025100.431
25 (1")	NPT 1 1/4"	931.025125.431*

DN = Nominal size flange

*longer version

› Steel zinc plated

› Flange interface: EN PN 16 › BSP-thread

DN mm (inch)	Thread inch	Item code
For smaller nominal diameters see EN PN 40		
50 (2")	BSP 1"	931.050100.211*
50 (2")	BSP 2"	931.050200.211
65 (2 1/2")	BSP 2 1/2"	931.065250.211
65 (2 1/2")	BSP 3"	931.065300.211*
80 (3")	BSP 3"	931.080300.211
100 (4")	BSP 3"	931.100300.211*
100 (4")	BSP 4"	931.100400.211
125 (5")	BSP 5"	931.125500.211
150 (6")	BSP 6"	931.150600.211

DN = Nominal size flange

*longer version

› Steel zinc plated

› Flange interface: EN PN 16 › NPT-thread

DN mm (inch)	Thread inch	Item code
50 (2")	NPT 2"	931.050200.231

DN = Nominal size flange

FGN

Hose fittings

Quick couplings

Adapter

FGN

Gaskets



FGN

Accessories



Swivel joints

FGN

Modular welding system



Technical annex

3.10. Flanged threaded nipple

› Steel zinc plated

› Flange interface: EN PN 16
› rail car thread (DIN 11)

FGN



DN mm (inch)	Thread inch	Item code
100 (4")	5 1/2" WW	931.100550.251

DN = Nominal size flange

› Steel zinc plated

› Flange interface: ASME 150 PSI
› BSP-thread

FGN



DN mm (inch)	Thread inch	Item code
15 (1/2")	BSP 1"	941.015100.211*
20 (3/4")	BSPT 3/4"	941.020075.211
25 (1")	BSP 1"	941.025100.211
40 (1 1/2")	BSP 1"	941.040100.211*
40 (1 1/2")	BSP 1 1/2"	941.040150.211
40 (1 1/2")	BSP 2"	941.040200.211*
50 (2")	BSP 1"	941.050100.211*
50 (2")	BSP 2"	941.050200.211
65 (2 1/2")	BSP 2 1/2"	941.065250.211
80 (3")	BSP 3"	941.080300.211
100 (4")	BSP 3"	941.100300.211*
100 (4")	BSP 4"	941.100400.211
125 (5")	BSP 5"	941.125500.211
150 (6")	BSP 6"	941.150600.211

DN = Nominal size flange

*longer version

› Steel zinc plated

› Flange interface: ASME 150 PSI
› NPT-thread

FGN



DN mm (inch)	Thread inch	Item code
20 (3/4")	NPT 3/4"	941.020075.231
25 (1")	NPT 1"	941.025100.231
50 (2")	NPT 1"	941.050100.231*

DN = Nominal size flange

*longer version

› Steel zinc plated

› Flange interface: ASME 300 PSI
› BSP-thread

FGN



DN mm (inch)	Thread inch	Item code
20 (3/4")	BSPT 3/4"	941.020075.411
25 (1")	BSP 1"	941.025100.411
32 (1 1/4")	BSP 1 1/4"	941.032125.411
40 (1 1/2")	BSP 1 1/2"	941.040150.411
50 (2")	BSP 1"	941.050100.411*
50 (2")	BSP 1 1/2"	941.050150.411*
50 (2")	BSP 2"	941.050200.411
65 (2 1/2")	BSP 2 1/2"	941.065250.411
80 (3")	BSP 3"	941.080300.411
100 (4")	BSP 4"	941.100400.411

DN = Nominal size flange

*longer version

3.10. Flanged threaded nipple

› Steel zinc plated

› Flange interface: ASME 300 PSI

› NPT-thread

DN mm (inch)	Thread inch	Item code
25 (1")	NPT 1"	941.025100.431
50 (2")	NPT 1"	941.050100.431*

DN = Nominal size flange

*longer version



Hose fittings

› Steel zinc plated

› BSP-thread

Flange	Thread inch	Item code
TW3	BSP 4"	900.003400.111



Quick couplings

› Aluminium

› BSP-thread

Flange	Thread inch	Item code
TW1	BSP 3"	900.001300.114
TW3	BSP 4"	900.003400.114
TTMA	BSP 4"	900.100400.114



Adapter

› Polypropylene

› Flange interface: EN PN 10

› BSPT-thread

DN mm (inch)	Thread inch	Item code
25 (1")	BSPT 1"	931.025100.115
40 (1 1/2")	BSPT 1 1/2"	931.040150.115
50 (2")	BSPT 2"	931.050200.115
80 (3")	BSPT 3"	931.080300.115

DN = Nominal size flange



Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

3.11.1. Flanged threaded sockets

One side fixed flange, other side fixed BSP-female thread.

› **Stainless steel V4A**

› **Flange interface: EN PN 40**

› **BSP-thread**

Thread seal: Polytetrafluorethylene (PTFE)

FGM



DN mm (inch)	Thread inch	Item code
25 (1")	BSP 1"	933.025100.412
32 (1 1/4")	BSP 1 1/4"	933.032125.412
40 (1 1/2")	BSP 1 1/2"	933.040150.412
50 (2")	BSP 2"	933.050200.412
65 (2 1/2")	BSP 2 1/2"	933.065250.412
80 (3")	BSP 3"	933.080300.412

DN = Nominal size flange

› **Stainless steel V4A**

› **Flange interface: EN PN 16**

› **BSP-thread**

Thread seal: Polytetrafluorethylene (PTFE)

FGM



DN mm (inch)	Thread inch	Item code
For smaller nominal diameters see EN PN 40		
50 (2")	BSP 2"	933.050200.212
65 (2 1/2")	BSP 2 1/2"	933.065250.212
80 (3")	BSP 3"	933.080300.212

DN = Nominal size flange



Supplementary products:
Thread sealen GD (see page 135)

3.11.2. Flanged threaded sockets rotatable

One side fixed flange, other side rotatable BSP-female thread.

› **Stainless steel V4A**

› **Flange interface: EN PN 40**

› **BSP-thread**

Thread seal: Polytetrafluorethylene (PTFE)

FGM



DN mm (inch)	Thread inch	Item code
20 (3/4")	BSP 3/4"	934.020075.412
25 (1")	BSP 1"	934.025100.412
32 (1 1/4")	BSP 1 1/4"	934.032125.412
40 (1 1/2")	BSP 1 1/2"	934.040150.412
50 (2")	BSP 2"	934.050200.412

DN = Nominal size flange

3.11.2. Flanged threaded sockets rotatable

› Stainless steel V4A

› Flange interface: EN PN 16

› rail car thread (DIN 11)

Thread seal: Polytetrafluorethylene (PTFE)

DN mm (inch)	Thread inch	Item code
100 (4")	5 1/2" WW	934.100550.252

DN = Nominal size flange

› Steel zinc plated

› Flange interface: EN PN 16

› rail car thread (DIN 11)

Thread seal: Polytetrafluorethylene (PTFE)

DN mm (inch)	Thread inch	Item code
100 (4")	5 1/2" WW	934.100550.251

DN = Nominal size flange



Supplementary products:
Thread sealen GD (see page 135)

FGM



Hose fittings

FGM



Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

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4.1. Thread seals

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4.2. Tank truck coupling seals for EN 14420-6

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4.3. Camlock coupling seals for EN 14420-7

4.3.	SKD	Camlock coupling seals for EN 14420-7	142
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4.1.1. Seals for BSP-threads

Thread seal for BSP-thread – minimum purchase 10 ea (except FFKM).

Hose fittings

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Swivel joints

Modular welding system

Technical annex

GD



› Polytetrafluorethylene (PTFE)

Thread inch	Item code
G 1/4"	010.025000.106
G 3/8"	010.038000.106
G 1/2"	010.050000.106
G 3/4"	010.075000.106
G 1"	010.100000.106
G 1 1/4"	010.125000.106
G 1 1/2"	010.150000.106
G 2"	010.200000.106
G 2 1/2"	010.250000.106
G 3"	010.300000.106
G 4"	010.400000.106
G 5"	010.500000.106
G 6"	010.600000.106

GD



› Polyurethane rubber (AU)

Thread inch	Item code
G 1/2"	010.050000.102
G 3/4"	010.075000.102
G 3 1/2"	010.350000.102
G 1"	010.100000.102
G 1 1/4"	010.125000.102
G 1 1/2"	010.150000.102
G 2"	010.200000.102
G 2 1/2"	010.250000.102
G 3"	010.300000.102
G 4"	010.400000.102

GD



› Fluoro rubber (FKM)

Thread inch	Item code
G 1/2"	010.050000.104
G 3/4"	010.075000.104
G 1"	010.100000.104
G 1 1/4"	010.125000.104
G 1 1/2"	010.150000.104
G 2"	010.200000.104
G 2 1/2"	010.250000.104
G 3"	010.300000.104
G 4"	010.400000.104

4.1.1. Seals for BSP-threads

› Ethylene propylene Diene monome (EPDM)

Thread inch	Item code
G 2"	010.200000.109
G 3"	010.300000.109
G 4"	010.400000.109

› Perfluoro rubber (FFKM)

Thread inch	Item code
G 1"	010.100000.112
G 2"	010.200000.112
G 3"	010.300000.112

› Fiber-reinforced Polyamide

Thread inch	Item code
G ½"	010.050000.101
G ¾"	010.075000.101
G 1"	010.100000.101
G 1 ¼"	010.125000.101
G 1 ½"	010.150000.101
G 2"	010.200000.101



GD

Hose fittings



GD

Quick couplings



GD

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

4.1.2. Seals for round threads

Thread seal for round thread – minimum purchase 10 ea.

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

GD



› Nitrile butadiene rubber (NBR)

Thread inch	Item code
Rd. 34	011.348000.603
Rd. 44	011.446000.603
Rd. 52	011.526000.603
Rd. 58	011.586000.603
Rd. 65	011.656000.603
Rd. 78	011.786000.603
Rd. 95	011.956000.603
Rd. 110	011.114000.603
Rd. 130	011.134000.603

GD



› Polytetrafluorethylene (PTFE)

Thread inch	Item code
Rd. 34	011.348000.606
Rd. 44	011.446000.606
Rd. 52	011.526000.606
Rd. 58	011.586000.606
Rd. 65	011.656000.606
Rd. 78	011.786000.606
Rd. 95	011.956000.606
Rd. 110	011.114000.606
Rd. 130	011.134000.606

GD



› Fluoro rubber (FKM)

Thread inch	Item code
Rd. 34	011.348000.604
Rd. 44	011.446000.604
Rd. 52	011.526000.604
Rd. 58	011.586000.604
Rd. 65	011.656000.604
Rd. 78	011.786000.604
Rd. 95	011.956000.604
Rd. 110	011.114000.604
Rd. 130	011.134000.604

4.1.3. Seals for rail car thread (DIN 11)

Thread seal for rail car thread (DIN 11) – minimum purchase 10 ea.

› Polytetrafluorethylene (PTFE)

Thread inch	Item code
5 ½" WW	010.550000.506

› Polyurethane rubber (AU)

Thread inch	Item code
5 ½" WW	010.550000.502

› Fluoro rubber (FKM)

Thread inch	Item code
5 ½" WW	010.550000.504



GD



GD



GD

4.1.4. Seals for ACME-threads

Thread seal for ACME-threads – minimum purchase 10 ea.

› Polyurethane rubber (AU)

Thread inch	Item code
ACME 2 ¼"	010.225000.102
G 3 ½"	010.350000.102



GD

- 4. Gaskets
- 4.1. Thread seals


4.1.5. Seals for NPS-threads

Thread seal for NPS-threads – Minimum purchase 10 ea

› Polytetrafluorethylene (PTFE)

GD	Thread inch	Item code
	NPS 2 1/2"	010.250000.706


› Polyurethane rubber (AU)

GD	Thread inch	Item code
	NPS 2 1/2"	010.250000.702

4.1.6. Seals for M-threads

Thread seal for M-threads – Minimum purchase 10 ea.

› Polyurethane rubber (AU)

GD	Thread inch	Item code
	M30	010.302000.402

4.1.7. Seals for W-threads

Thread seal for W-threads – Minimum purchase 10 ea

› Polyurethane rubber (AU)

GD	Thread inch	Item code
	W82	010.826000.502

4.2.1. Seals form TWF

Tank truck coupling seals for EN 14420-6 – minimum purchase 10 ea.

› chlorosulfonated polyethylene (CSPE)

AN mm (Zoll)	Item code
MK 50	020.200000.005
MK 80	020.300000.005

AN = Connection size (coupling size)

› Nitrile butadiene rubber (NBR)

AN mm (Zoll)	Item code
MK 50	020.200000.003
MK 80	020.300000.003

AN = Connection size (coupling size)

› Polytetrafluorethylene (PTFE)

AN mm (Zoll)	Item code
MK 50	020.200000.006
MK 80	020.300000.006

AN = Connection size (coupling size)

› Polytetrafluorethylene/Fluoro rubber (PTFE/FKM)

AN mm (Zoll)	Item code
MK 50	020.200000.008
MK 80	020.300000.008

AN = Connection size (coupling size)

› Ethylene propylene Diene monome (EPDM)

AN mm (Zoll)	Item code
MK 50	020.200000.009
MK 80	020.300000.009

AN = Connection size (coupling size)

› Bitumen (BIT)

AN mm (Zoll)	Item code
MK 80	020.300000.104

AN = Connection size (coupling size)



- 4. Gaskets
- 4.2. Tank truck coupling seals for EN 14420-6

4.2.1. Seals form TWF

› Polyurethane rubber (AU)

TWF



AN mm (Zoll)	Item code
MK 50	020.200000.002
MK 80	020.300000.002

AN = Connection size (coupling size)

› Fluoro rubber (FKM)

TWF



AN mm (Zoll)	Item code
MK 50	020.200000.004
MK 80	020.300000.004

AN = Connection size (coupling size)

4.2.2. Seals form GSD

Tank truck coupling seals for EN 14420-6 – minimum purchase 10 ea.

› chlorosulfonated polyethylene (CSPE)

GSD



AN mm (Zoll)	Item code
MK 50	021.200000.005
MK 80	021.300000.005

AN = Connection size (coupling size)

› Nitrile butadiene rubber (NBR)

GSD



AN mm (Zoll)	Item code
MK 50	021.200000.003
MK 80	021.300000.003

AN = Connection size (coupling size)

› Ethylene propylene Diene monome (EPDM)

GSD



AN mm (Zoll)	Item code
MK 50	021.200000.009
MK 80	021.300000.009

AN = Connection size (coupling size)

› Polyurethane rubber (AU)

GSD



AN mm (Zoll)	Item code
MK 50	021.200000.002
MK 80	021.300000.002

AN = Connection size (coupling size)

4.2.2. Seals form GSD

› Fluoro rubber (FKM)

AN mm (Zoll)	Item code
MK 50	021.200000.004
MK 80	021.300000.004

AN = Connection size (coupling size)



4.2.3. Seals form TWO

Tank truck coupling seals for EN 14420-6 – minimum purchase 10 ea.

› chlorosulfonated polyethylene (CSPE)

AN mm (Zoll)	Item code
MK 100	022.400000.005

AN = Connection size (coupling size)



› Nitrile butadiene rubber (NBR)

AN mm (Zoll)	Item code
MK 100	022.400000.003

AN = Connection size (coupling size)



› Polytetrafluorethylene (PTFE)

AN mm (Zoll)	Item code
MK 100	022.400000.006

AN = Connection size (coupling size)



› Polytetrafluorethylene/Fluoro rubber (PTFE/FKM)

AN mm (Zoll)	Item code
MK 100	022.400000.008

AN = Connection size (coupling size)



› Fluoro rubber (FKM)

AN mm (Zoll)	Item code
MK 100	022.400000.004

AN = Connection size (coupling size)



4. Gaskets

4.3. Camlock coupling seals for EN 14420-7

4.3. Camlock coupling seals for EN 14420-7

Camlock coupling seals for EN 14420-7 – minimum purchase 10 ea.

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SKD



› chlorosulfonated polyethylene (CSPE)

AN mm (Zoll)	Item code
15 (1/2")	030.050000.005
20 (3/4")	030.075000.005
25 (1")	030.100000.005
32 (1 1/4")	030.125000.005
40 (1 1/2")	030.150000.005
50 (2")	030.200000.005
65 (2 1/2")	030.250000.005
80 (3")	030.300000.005
100 (4")	030.400000.005

AN = Connection size (coupling size)

SKD



› Nitrile butadiene rubber (NBR)

AN mm (Zoll)	Item code
15 (1/2")	030.050000.003
20 (3/4")	030.075000.003
25 (1")	030.100000.003
32 (1 1/4")	030.125000.003
40 (1 1/2")	030.150000.003
50 (2")	030.200000.003
65 (2 1/2")	030.250000.003
80 (3")	030.300000.003
100 (4")	030.400000.003

AN = Connection size (coupling size)

SKD



› Polytetrafluorethylene/Ethylene propylene Diene monomer (PTFE/EPDM)

AN mm (Zoll)	Item code
25 (1")	030.100000.007
32 (1 1/4")	030.125000.007
40 (1 1/2")	030.150000.007
50 (2")	030.200000.007
65 (2 1/2")	030.250000.007
80 (3")	030.300000.007
100 (4")	030.400000.007

AN = Connection size (coupling size)

SKD



› Polytetrafluorethylene/Fluoro rubber (PTFE/FKM)

AN mm (Zoll)	Item code
15 (1/2")	030.050000.008
20 (3/4")	030.075000.008
25 (1")	030.100000.008
32 (1 1/4")	030.125000.008

4.3. Camlock coupling seals for EN 14420-7

AN mm (Zoll)	Item code
40 (1 ½")	030.150000.008
50 (2")	030.200000.008
65 (2 ½")	030.250000.008
80 (3")	030.300000.008
100 (4")	030.400000.008

AN = Connection size (coupling size)

› Fluoro rubber (FKM)

AN mm (Zoll)	Item code
15 (½")	030.050000.004
20 (¾")	030.075000.004
25 (1")	030.100000.004
32 (1 ¼")	030.125000.004
40 (1 ½")	030.150000.004
50 (2")	030.200000.004
65 (2 ½")	030.250000.004
80 (3")	030.300000.004
100 (4")	030.400000.004

AN = Connection size (coupling size)

› Ethylene propylene Diene monome (EPDM)

AN mm (Zoll)	Item code
15 (½")	030.050000.009
20 (¾")	030.075000.009
25 (1")	030.100000.009
32 (1 ¼")	030.125000.009
40 (1 ½")	030.150000.009
50 (2")	030.200000.009
65 (2 ½")	030.250000.009
80 (3")	030.300000.009
100 (4")	030.400000.009

AN = Connection size (coupling size)



SKD

SKD

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5.1. Bolts and nuts

5.1.1.	SM	Bolts and nuts	146
5.1.2.	SM	Self-locking nuts	146
5.1.3.	MS	Assembly bolts	147

5.2. Tank wagon steam adapter

5.2.	KWB, KWA, KWW	Tank wagon steam adapter	148
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5.3. Chain with S-hooks

5.3.	KN	Chain with S-hooks	149
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5.4. Spanners

5.4.	MH, GS, HS, TS	Spanners	150
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5.1.1. Bolts and nuts

Bolts and nuts for safety clamps, EN 14420 / EN 14423.

› Stainless steel V4A

SM	Size	Item code
	M6 x 20	633.006020.020
	M8 x 25	633.008025.020
	M10 x 40	633.010040.020
	M12 x 50	633.012050.020
	M12 x 60	633.012060.020

› Steel zinc plated


SM	Size	Item code
	M6 x 20	633.006020.010
	M8 x 25	633.008025.010
	M10 x 40	633.010040.010
	M12 x 50	633.012050.010
	M12 x 60	633.012060.010

5.1.2. Self-locking nuts

Self-locking nuts for safety clamps, EN 14420 / EN 14423.


› Stainless steel V4A

› self-locking nuts acc. to ISO 10511

SM	Size	Item code
	M6	631.006000.021
	M8	631.008000.021
	M10	631.010000.021

› Steel zinc plated

› self-locking nuts acc. to ISO 10511

SM	Size	Item code
	M6	631.006000.011
	M8	631.008000.011
	M10	631.010000.011

5.1.3. Assembly bolts

Assembly bolts for safety clamps, EN 14420 / EN 14423.

› Steel

Size	Item code
M6 x 40	632.006040.010
M8 x 50	632.008050.010
M10 x 70	632.010070.010
M12 x 80	632.012080.010



MS



Supplementary products:
Safety clamps SC ([see page 51](#))
Safety clamps SC HD ([see page 64](#))

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5.2. Tank wagon steam adapter

Hose fittings

KWB



- › Steel zinc plated
- › Frame: Steel zinc plated, Connection: Brass
- › BSP-thread

DN mm (inch)	AG inch	Item code
25 (1")	BSP 1"	810.100100.113

DN = Hose inner diameter

Quick couplings

KWA



- › Brass
- › Inlay: Brass
- › BSP-thread

IG 1 inch	AG inch	Item code
G 1"	BSP 1"	815.100100.103

AG = Male thread

IG = Female thread

Adapter

WK



- › Brass
- › Elbow 45°: Brass
- › BSP-thread
- › for threaded ferrules

IG 1 inch	AG inch	Item code
G 1"	BSP 1"	570.100100.130

AG = Male thread

IG = Female thread

Gaskets

Accessories

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5.3. Chain with S-hooks

› Stainless steel V2A

Length mm	Item code
200	000.200000.060
300	000.300000.060
350	000.350000.060



› Brass

Length mm	Item code
200	000.200000.030
300	000.300000.030
350	000.350000.030



Hose fittings

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5.4. Spanners

Hose fittings

MH



- › Steel zinc plated
- › for fittings with threaded ferrules

DN mm	Item code
15, 19, 25	001.015025.010
32, 38	001.032038.010

DN = Hose inner diameter

Quick couplings

GS



- › Steel zinc plated
- › for nuts

DN mm	Item code
60 - 90	003.060090.010
90 - 155	003.090155.010

DN = Hose inner diameter

Adapter

HS



- › Steel zinc plated
- › for nuts rail car thread (DIN 11)

Thread inch	Item code
90 - 180 Ø	003.090180.010

Gaskets

TS



- › Steel zinc plated
- › for tank truck couplings

AN mm (inch)	Item code
MK + VK 50 (2")	004.050000.010
MK + VK 80 (3")	004.080000.010
MK + VK 100 (4")	004.100000.010

AN = Connection size (coupling size)

Swivel joints

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6.1. Universal swivel joints

6.1.1.	DG	BSP-female thread to BSP-male thread	152
6.1.2.	DG	BSP-male thread to BSP-male thread	154
6.1.3.	DG	BSP-female thread to BSP-female thread	155

6.2. Hose swivel joints

6.2.1.	SDL	Hose swivel joint with hose fitting EN 14420-2	156
6.2.2.	SDL	Steam hose swivel joint with hose fitting EN 14423	156

6.3. Machine swivel joints

6.3.	DGLL	Machine swivel joints BSP-Female thread to BSP-Male thread	157
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6.4. Steam swivel joints

6.4.	DDG	Steam swivel joints BSP-Female thread to BSP-Male thread	158
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6.5. Radial stress-resistant swivel joints

6.5.	QDG	Radial stress-resistant swivel joint BSP-Female thread to BSP-Male thread	159
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6.6. Ball swivel joints

6.6.1.	KDG	Ball swivel joints BSP-Female thread to BSP-Male thread	160
6.6.2.	KDG	Ball swivel joints BSP-Female thread to BSP-Female thread	161
6.6.3.	KDG	Ball swivel joints BSP-Male thread to BSP-Male thread	162

6.1.1. BSP-female thread to BSP-male thread

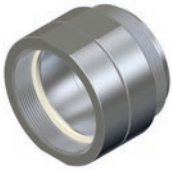
Swivel joint with single ball race. One side female thread, other side male thread. Torsion protection – universally applicable for hose lines that are being moved on a regular basis like in loading, filling and refuelling facilities or mixing stations.

- › max. operating pressure: 0,5 to 16 bar / 7 to 232 PSI
- › Operation temperature: -20°C to 150°C
EPDM: -40°C to 150°C

› Stainless steel V4A

- › **Joint seal:** Fluoro rubber (FKM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

DG



IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	594.050050.112
G 3/4"	BSP 3/4"	594.075075.112
G 1"	BSP 1"	594.100100.112
G 1 1/4"	BSP 1 1/4"	594.125125.112
G 1 1/2"	BSP 1 1/2"	594.150150.112
G 2"	BSP 2"	594.200200.112
G 2 1/2"	BSP 2 1/2"	594.250250.112
G 3"	BSP 3"	594.300300.112
G 4"	BSP 4"	594.400400.112

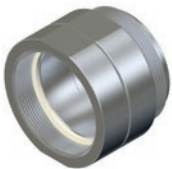
AG = Male thread

IG = Female thread

› Stainless steel V4A

- › **Joint seal:** Ethylene propylene Diene monomer (EPDM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

DG



IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	594.050050.11209
G 3/4"	BSP 3/4"	594.075075.11209
G 1"	BSP 1"	594.100100.11209
G 1 1/4"	BSP 1 1/4"	594.125125.11209
G 1 1/2"	BSP 1 1/2"	594.150150.11209
G 2"	BSP 2"	594.200200.11209
G 2 1/2"	BSP 2 1/2"	594.250250.11209
G 3"	BSP 3"	594.300300.11209
G 4"	BSP 4"	594.400400.11209

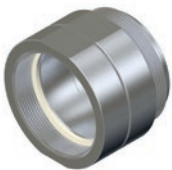
AG = Male thread

IG = Female thread

› Stainless steel V4A

- › **Joint seal:** Perfluoroethylenpropylene (FEP)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

DG



IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	594.050050.11216
G 3/4"	BSP 3/4"	594.075075.11216
G 1"	BSP 1"	594.100100.11216
G 1 1/4"	BSP 1 1/4"	594.125125.11216
G 1 1/2"	BSP 1 1/2"	594.150150.11216
G 2"	BSP 2"	594.200200.11216
G 2 1/2"	BSP 2 1/2"	594.250250.11216
G 3"	BSP 3"	594.300300.11216
G 4"	BSP 4"	594.400400.11216

AG = Male thread

IG = Female thread

6.1.1. BSP-female thread to BSP-male thread

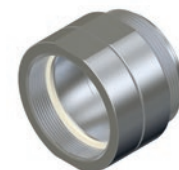
› Stainless steel V4A

- › **Joint seal:** Perfluoro rubber (FFKM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	594.050050.11212
G 3/4"	BSP 3/4"	594.075075.11212
G 1"	BSP 1"	594.100100.11212
G 1 1/4"	BSP 1 1/4"	594.125125.11212
G 1 1/2"	BSP 1 1/2"	594.150150.11212
G 2"	BSP 2"	594.200200.11212
G 2 1/2"	BSP 2 1/2"	594.250250.11212
G 3"	BSP 3"	594.300300.11212
G 4"	BSP 4"	594.400400.11212

AG = Male thread

IG = Female thread



DG

Hose fittings

Quick couplings

› Brass

- › **Joint seal:** Fluoro rubber (FKM)
- › **Thread seal:** Polyurethane rubber (AU)

IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	594.050050.113
G 3/4"	BSP 3/4"	594.075075.113
G 1"	BSP 1"	594.100100.113
G 1 1/4"	BSP 1 1/4"	594.125125.113
G 1 1/2"	BSP 1 1/2"	594.150150.113
G 2"	BSP 2"	594.200200.113
G 2 1/2"	BSP 2 1/2"	594.250250.113
G 3"	BSP 3"	594.300300.113
G 4"	BSP 4"	594.400400.113

AG = Male thread

IG = Female thread



DG

Adapter

Gaskets

› Brass

- › **Joint seal:** Ethylene propylene Diene monomer (EPDM)
- › **Thread seal:** Polyurethane rubber (AU)

IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	594.050050.11309
G 3/4"	BSP 3/4"	594.075075.11309
G 1"	BSP 1"	594.100100.11309
G 1 1/4"	BSP 1 1/4"	594.125125.11309
G 1 1/2"	BSP 1 1/2"	594.150150.11309
G 2"	BSP 2"	594.200200.11309
G 2 1/2"	BSP 2 1/2"	594.250250.11309
G 3"	BSP 3"	594.300300.11309
G 4"	BSP 4"	594.400400.11309

AG = Male thread

IG = Female thread



DG

Accessories

Swivel joints

Modular welding system

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6. Swivel joints
6.1. Universal swivel joints

6.1.1. BSP-female thread to BSP-male thread

› Brass

- › **Joint seal:** Perfluoroethylenpropylene (FEP)
- › **Thread seal:** Polyurethane rubber (AU)

DG



IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	594.050050.11316
G 3/4"	BSP 3/4"	594.075075.11316
G 1"	BSP 1"	594.100100.11316
G 1 1/4"	BSP 1 1/4"	594.125125.11316
G 1 1/2"	BSP 1 1/2"	594.150150.11316
G 2"	BSP 2"	594.200200.11316
G 2 1/2"	BSP 2 1/2"	594.250250.11316
G 3"	BSP 3"	594.300300.11316
G 4"	BSP 4"	594.400400.11316

AG = Male thread

IG = Female thread



Alternative products:
Hose swivel joints SDL (see page 156)
Machine swivel joints DGLL (see page 157)

6.1.2. BSP-male thread to BSP-male thread

Swivel joint with single ball race. Both sides identical male thread. Torsion protection – universally applicable for hose lines that are being moved on a regular basis like in loading, filling and refuelling facilities or mixing stations.

- › max. operating pressure: 0,5 to 16 bar / 7 to 232 PSI
- › Operation temperature: -20°C to +150°C

› Stainless steel V4A

- › **Joint seal:** Fluoro rubber (FKM)

DG



AG inch	Item code
BSP 1/2"	592.050050.112
BSP 3/4"	592.075075.112
BSP 1"	592.100100.112
BSP 1 1/2"	592.150150.112
BSP 2"	592.200200.112

AG = Male thread

› Brass

- › **Joint seal:** Fluoro rubber (FKM)

DG



AG inch	Item code
BSP 3/4"	592.075075.113
BSP 1"	592.100100.113
BSP 1 1/2"	592.150150.113
BSP 2"	592.200200.113
BSP 3"	592.300300.113

AG = Male thread



Alternative products:
Hose swivel joints SDL (see page 156)

6.1.3. BSP-female thread to BSP-female thread

Swivel joint with single ball race. Both sides identical female thread. Torsion protection – universally applicable for hose lines that are being moved on a regular basis like in loading, filling and refuelling facilities or mixing stations.

- › max. operating pressure: 0,5 to 16 bar / 7 to 232 PSI
- › Operation temperature: -20°C to +150°C

› Stainless steel V4A

- › **Joint seal:** Fluoro rubber (FKM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

IG inch	Item code
G ¾"	596.075075.112
G 1"	596.100100.112
G 1 ½"	596.150150.112
G 2"	596.200200.112
G 3"	596.300300.112

IG = Female thread



› Brass

- › **Joint seal:** Fluoro rubber (FKM)
- › **Thread seal:** Polyurethane rubber (AU)

IG inch	Item code
G ¾"	596.075075.113
G 1"	596.100100.113
G 1 ½"	596.150150.113
G 2"	596.200200.113
G 3"	596.300300.113

IG = Female thread



6.2.1. Hose swivel joint with hose fitting EN 14420-2

Hose fittings

Swivel joint with single ball race. One side hose fitting EN 14420-2 other side male thread. Torsion protection that is being directly assembled with the hose – universally applicable for hose lines that are being moved on a regular basis, like in loading, filling and refuelling facilities or mixing stations.

- › max. operating pressure: 0,5 to 16 bar / 7 to 232 PSI
- › Operation temperature: -20°C to +65°C

Quick couplings

SDL

› **Stainless steel V4A**

› **Joint seal:** Fluoro rubber (FKM)



DN mm (inch)	Thread inch	Item code
13 (1/2")	BSP 1/2"	598.130050.122
19 (3/4")	BSP 3/4"	598.190075.122
25 (1")	BSP 1"	598.250100.122
38 (1 1/2")	BSP 1 1/2"	598.380150.122
50 (2")	BSP 2"	598.500200.122

DN = Hose inner diameter



Supplementary products:
Safety clamps SC (see page 51)

Adapter

Gaskets

6.2.2. Steam hose swivel joint with hose fitting EN 14423 for steam

Accessories

Swivel joint with single ball race. One side hose fitting EN 14423 other side male thread. Torsion protection that is being directly assembled with the hose – universally applicable for hose lines that are being moved on a regular basis, like in loading, filling and refuelling facilities or mixing stations.

- › max. operating pressure: 0,5 to 25 bar / 7 to 362 PSI
- › Operation temperature: -20°C to +180°C

Swivel joints

SDS

› **Stainless steel V4A**

› **Joint seal:** Ethylene propylene Diene monomer (EPDM)



DN mm (inch)	Thread inch	Item code
13 (1/2")	BSP 1/2"	599.130050.12209
19 (3/4")	BSP 3/4"	599.190075.12209
25 (1")	BSP 1"	599.250100.12209

DN = Hose inner diameter



Supplementary products:
Safety clamp SC HD (see page 64)

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6.3. Machine swivel joints BSP-Female thread to BSP-Male thread

Swivel joint with industrial grade bearing. One side female thread, other side male thread. Torsion protection – for application in mechanical engineering / robotics for hoses and pipes that are exposed to permanent movement and have to be smooth-running under pressure.

- › max. operating pressure: DN 25 to DN 50: 0,5 to 25 bar / 7 to 362 PSI;
DN 100: 0,5 to 10 bar / 7 to 145 PSI
- › Operation temperature: -20°C to +80°C / -4°F to 212°F

› Stainless steel V4A

› **Joint seal:** Fluoro rubber (FKM)

› **Thread seal:** Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	DGLL.050050.12000
G 3/4"	BSP 3/4"	DGLL.075075.12000
G 1"	BSP 1"	DGLL.100100.12000
G 1 1/4"	BSP 1 1/4"	DGLL.125125.12000
G 1 1/2"	BSP 1 1/2"	DGLL.150150.12000
G 2"	BSP 2"	DGLL.200200.12000
G 3"	BSP 3"	DGLL.300300.12001

AG = Male thread

IG = Female thread



Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

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6.4. Steam swivel joints BSP-Female thread to BSP-Male thread

Swivel joint with double ball race. One side female thread, other side male thread. Torsion protection – developed especially for steam application and hot water – with sealings suitable for steam. Suitable for high pressures applied to steam hoses.

- › max. operating pressure: EPDM 0,5 to 18 bar / 7 to 261 PSI;
FFKM 0,5 to 25 bar / 7 to 362 PSI
- › Operation temperature: EPDM 0°C to 180°C / 32°F to 356°F;
FFKM 0°C to 225°C / 32°F to 437°F

› Stainless steel V4A

› **Joint seal:** Ethylene propylene Diene monomer (EPDM)

› **Thread seal:** Polytetrafluorethylene (PTFE)

DDG



IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	595.050050.11209
G 3/4"	BSP 3/4"	595.075075.11209
G 1"	BSP 1"	595.100100.11209
G 1 1/4"	BSP 1 1/4"	595.125125.11209
G 1 1/2"	BSP 1 1/2"	595.150150.11209
G 2"	BSP 2"	595.200200.11209
G 3"	BSP 3"	595.300300.11209

AG = Male thread

IG = Female thread

› Stainless steel V4A

› **Joint seal:** Perfluoro rubber (FFKM)

› **Thread seal:** Polytetrafluorethylene (PTFE)

DDG



IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	595.050050.11212
G 3/4"	BSP 3/4"	595.075075.11212
G 1"	BSP 1"	595.100100.11212
G 1 1/4"	BSP 1 1/4"	595.125125.11212
G 1 1/2"	BSP 1 1/2"	595.150150.11212
G 2"	BSP 2"	595.200200.11212
G 3"	BSP 3"	595.300300.11212

AG = Male thread

IG = Female thread



Supplementary products:
Male hose fitting for safety clamps
VSS, VMD (see page 54)
Female hose fitting for safety clamps
MSS, MMD (see page 56)



Alternative products:
Hose swivel joints SDS
(see page 156)

6.5. Radial stress-resistant swivel joint BSP-Female thread to BSP-Male thread

Swivel joint with double ball race. One side female thread, other side male thread. Torsion protection – for applications in which high shear forces are being applied to the swivel joint e.g. with pipe lines. Also suitable for applications where high operating pressures occur.

- › max. operating pressure: 0,5 to 25 bar / 7 to 362 PSI
- › Operation temperature: -20°C to 150°C
EPDM: -40°C to 150°C

› Stainless steel V4A

- › **Joint seal:** Fluoro rubber (FKM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	595.050050.112
G 3/4"	BSP 3/4"	595.075075.112
G 1"	BSP 1"	595.100100.112
G 1 1/4"	BSP 1 1/4"	595.125125.112
G 1 1/2"	BSP 1 1/2"	595.150150.112
G 2"	BSP 2"	595.200200.112
G 3"	BSP 3"	595.300300.112

AG = Male thread

IG = Female thread



Hose fittings

Quick couplings

Adapter

› Stainless steel V4A

- › **Joint seal:** Ethylene propylene Diene monomer (EPDM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	595.050050.11209
G 3/4"	BSP 3/4"	595.075075.11209
G 1"	BSP 1"	595.100100.11209
G 1 1/4"	BSP 1 1/4"	595.125125.11209
G 1 1/2"	BSP 1 1/2"	595.150150.11209
G 2"	BSP 2"	595.200200.11209
G 3"	BSP 3"	595.300300.11209

AG = Male thread

IG = Female thread



Gaskets

Accessories

› Stainless steel V4A

- › **Joint seal:** Perfluoro rubber (FFKM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

IG inch	AG inch	Item code
G 1/2"	BSP 1/2"	595.050050.11212
G 3/4"	BSP 3/4"	595.075075.11212
G 1"	BSP 1"	595.100100.11212
G 1 1/4"	BSP 1 1/4"	595.125125.11212
G 1 1/2"	BSP 1 1/2"	595.150150.11212
G 2"	BSP 2"	595.200200.11212
G 3"	BSP 3"	595.300300.11212

AG = Male thread

IG = Female thread



Swivel joints

Modular welding system

Technical annex

6.6.1. Ball swivel joints BSP-Female thread to BSP-Male thread

Ball swivel joint with one side female thread, other side male thread. Torsion, bending and buckling protection – for applications with constricted movement space and / or large movement radius of the hose line.

- › max. operating pressure: DN 25 to DN 80: 0,5 to 16 bar / 7 to 232 PSI;
DN 100: 0,5 to 10 bar / 7 to 145 PSI
- › Operation temperature: -20 to 120°C / -4°F to 248°F

› Stainless steel V4A

- › **Joint seal:** Fluoro rubber (FKM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

KDG



IG inch	AG inch	Item code
G 1"	BSP 1"	646.100100.112
G 1 1/4"	BSP 1 1/4"	646.125125.112
G 1 1/2"	BSP 1 1/2"	646.150150.112
G 2"	BSP 2"	646.200200.112
G 3"	BSP 3"	646.300300.112
G 4"	BSP 4"	646.400400.112

AG = Male thread

IG = Female thread

› Stainless steel V4A

- › **Joint seal:** Ethylene propylene Diene monomer (EPDM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

KDG



IG inch	AG inch	Item code
G 1"	BSP 1"	646.100100.11209
G 1 1/4"	BSP 1 1/4"	646.125125.11209
G 1 1/2"	BSP 1 1/2"	646.150150.11209
G 2"	BSP 2"	646.200200.11209
G 3"	BSP 3"	646.300300.11209
G 4"	BSP 4"	646.400400.11209

AG = Male thread

IG = Female thread

› Stainless steel V4A

- › **Joint seal:** Perfluoro rubber (FFKM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

KDG



IG inch	AG inch	Item code
G 1"	BSP 1"	646.100100.11212
G 1 1/4"	BSP 1 1/4"	646.125125.11212
G 1 1/2"	BSP 1 1/2"	646.150150.11212
G 2"	BSP 2"	646.200200.11212
G 3"	BSP 3"	646.300300.11212
G 4"	BSP 4"	646.400400.11212

AG = Male thread

IG = Female thread



Supplementary products:
Hose fittings (see page 5)

6.6.2. Ball swivel joints BSP-Female thread to BSP-Female thread

Ball swivel joint with equal female thread on both sides.
Torsion, bending and buckling protection – for applications with constricted movement space and / or large movement radius of the hose line.

- › max. operating pressure: DN 25 to DN 80: 0,5 to 16 bar / 7 to 232 PSI;
DN 100: 0,5 to 10 bar / 7 to 145 PSI
- › Operation temperature: -20 to 120°C / -4°F to 248°F

› Stainless steel V4A

- › **Joint seal:** Fluoro rubber (FKM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

IG inch	Item code
G 1"	644.100100.112
G 1 ¼"	644.125125.112
G 1 ½"	644.150150.112
G 2"	644.200200.112
G 3"	644.300300.112
G 4"	644.400400.112

IG = Female thread



KDG

› Stainless steel V4A

- › **Joint seal:** Ethylene propylene Diene monomer (EPDM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

IG inch	Item code
G 1"	644.100100.11209
G 1 ¼"	644.125125.11209
G 1 ½"	644.150150.11209
G 2"	644.200200.11209
G 3"	644.300300.11209
G 4"	644.400400.11209

IG = Female thread



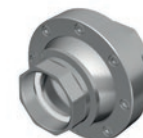
KDG

› Stainless steel V4A

- › **Joint seal:** Perfluoro rubber (FFKM)
- › **Thread seal:** Polytetrafluorethylene (PTFE)

IG inch	Item code
G 1"	644.100100.11212
G 1 ¼"	644.125125.11212
G 1 ½"	644.150150.11212
G 2"	644.200200.11212
G 3"	644.300300.11212
G 4"	644.400400.11212

IG = Female thread



KDG



Supplementary products:
Hose fittings (see page 5)

6.6.3. Ball swivel joints BSP-Male thread to BSP-Male thread

Ball swivel joint with equal male thread on both sides.
Torsion, bending and buckling protection for applications with constricted movement space and / or large movement radius of the hose line.

- › max. operating pressure: DN 25 to DN 80: 0,5 to 16 bar / 7 to 232 PSI;
DN 100: 0,5 to 10 bar / 7 to 145 PSI
- › Operation temperature: -20 to 120° C / -4°F to 248°F

› **Stainless steel V4A**

› **Joint seal:** Fluoro rubber (FKM)

KDG



AG inch	Item code
BSP 1"	645.100100.112
BSP 1 1/4"	645.125125.112
BSP 1 1/2"	645.150150.112
BSP 2"	645.200200.112
BSP 3"	645.300300.112
BSP 4"	645.400400.112

AG = Male thread

› **Stainless steel V4A**

› **Joint seal:** Ethylene propylene Diene monomer (EPDM)

KDG



AG inch	Item code
BSP 1"	645.100100.11209
BSP 1 1/4"	645.125125.11209
BSP 1 1/2"	645.150150.11209
BSP 2"	645.200200.11209
BSP 3"	645.300300.11209
BSP 4"	645.400400.11209

AG = Male thread

› **Stainless steel V4A**

› **Joint seal:** Perfluoro rubber (FFKM)

KDG

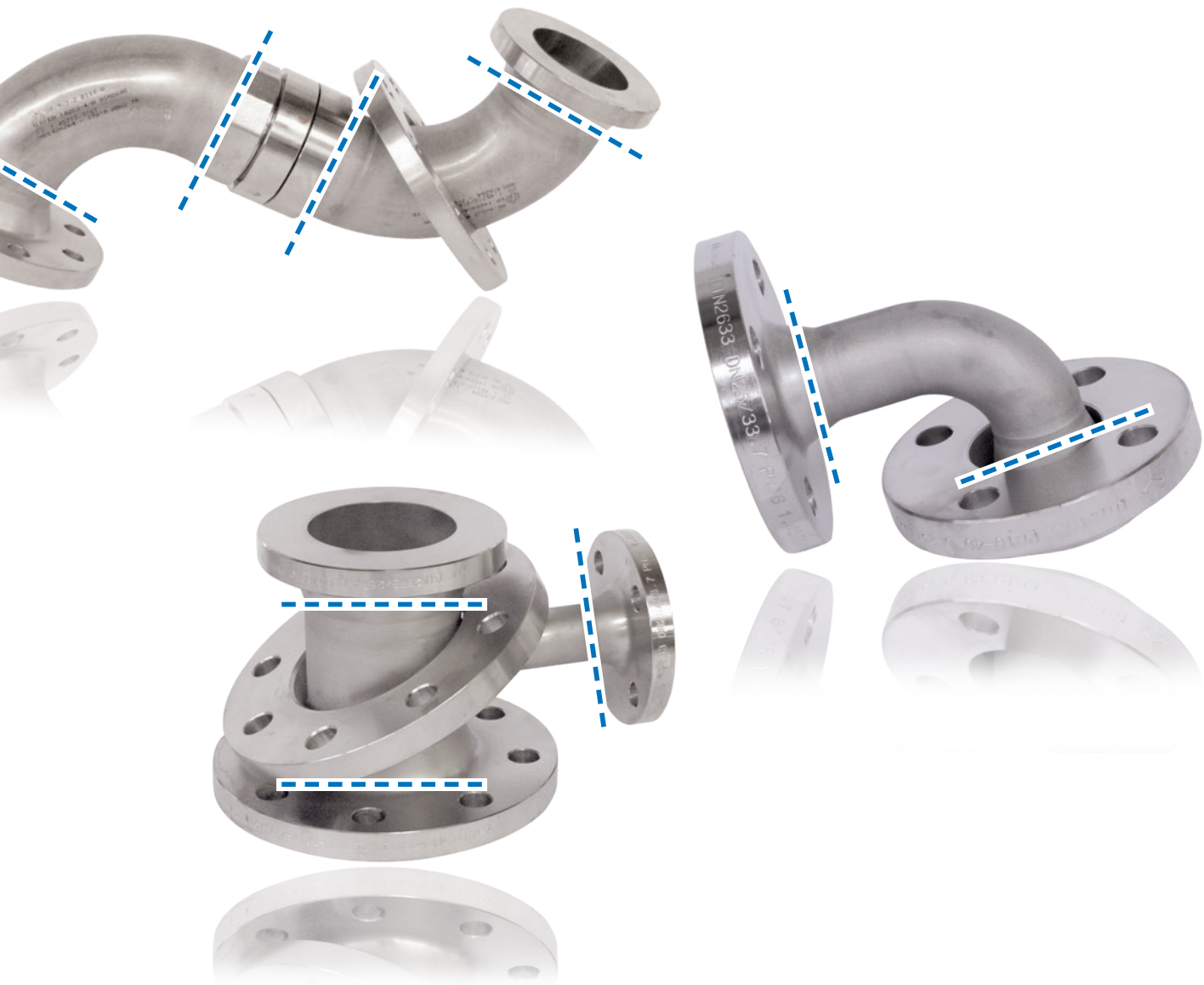


AG inch	Item code
BSP 1"	645.100100.11212
BSP 1 1/4"	645.125125.11212
BSP 1 1/2"	645.150150.11212
BSP 2"	645.200200.11212
BSP 3"	645.300300.11212
BSP 4"	645.400400.11212

AG = Male thread



Supplementary products:
Hose fittings (see page 5)



Your advantages

- › Prompt availability of customized connecting pieces – virtually ex works
- › More than 30,000 different connecting pieces can already be produced from stock
- › A continuously expanding number of modular components
- › Various surface finishings such as coatings etc. possible
- › Highest welding quality including approval for welding pressure equipment

Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

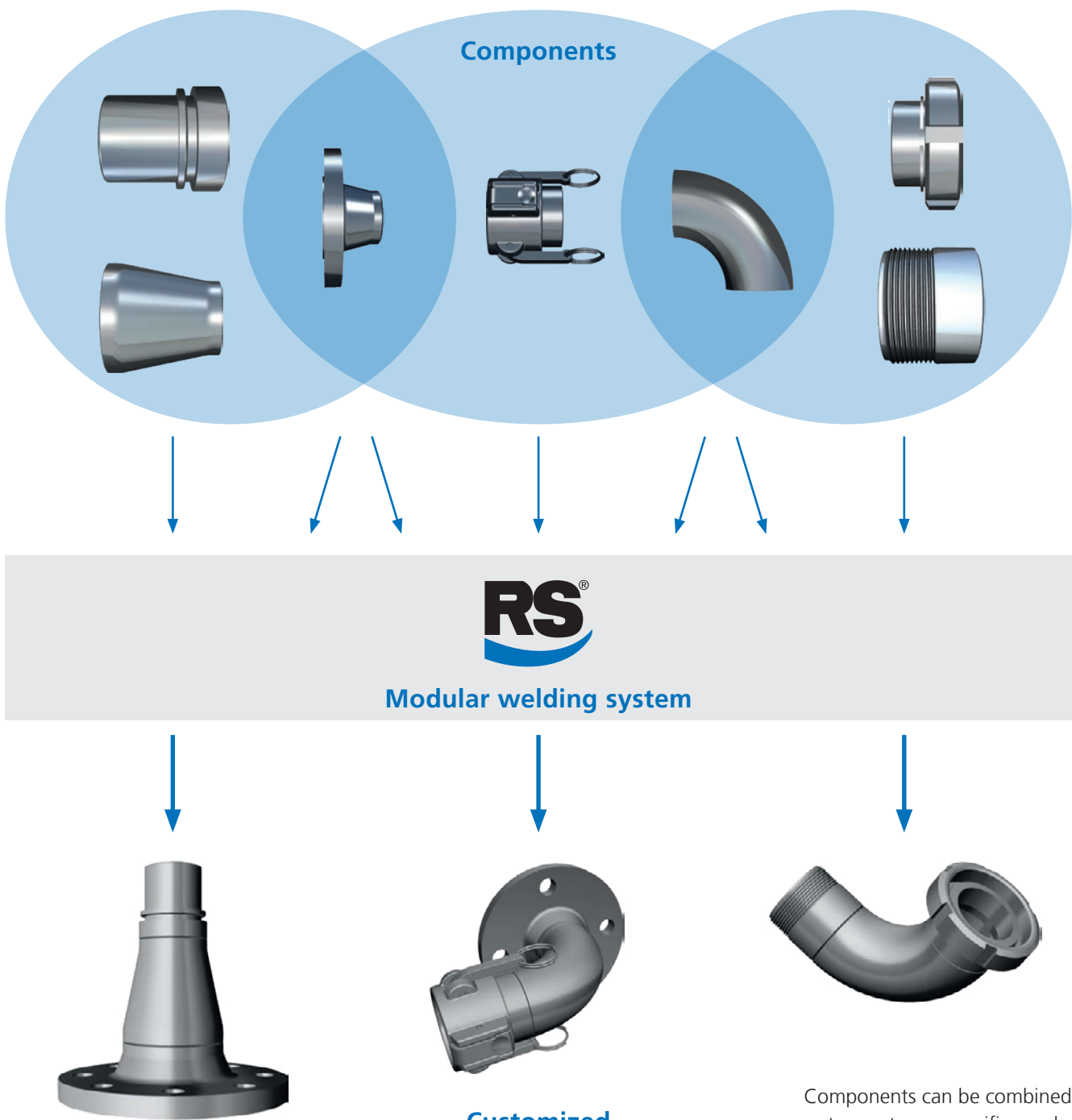
Technical annex

Basic information

The sheer number of connection and connecting variants used in the world of fluid handling is simply immeasurable – and far greater than any catalogue could possibly reproduce! However, it can largely be traced back to a smaller subset of recurring modules. It is precisely these modules that RS can supply in ever greater numbers from stock. This allows us to weld virtually every conceivable combination of items to create a bespoke component as and when required.

We can already supply the following components with weld ends in stainless steel (V4A and V2A) and steel in nominal widths from DN 13 to DN 200:

- › Male and female thread to various standards
- › Flanges and coils for lapped flange to various standards
- › Hose couplings to various standards
- › Quick couplings (lever arm, tanker truck)
- › Pipe and moulding sections (arches, concentric, eccentric sections, T-fittings, etc.)



Components can be combined to meet your specific needs.

Basic information

In the unlikely event that a component you require is not yet in the RS modular system, we would be delighted to add it for you! We can source virtually every component at short notice, or manufacture it ourselves at our own CNC production facility.

If required, we can issue a certificate of conformity (2.1), factory certification (2.2), or an acceptance test certificate (3.1) based on the components used.

Of course, we can also finish the products to your specific requirements. Stainless steel parts can be coated on request e.g. with:

- › E-CTFE
- › CF-E-CTFE
- › CF-E-CTFE-DA
- › PFA

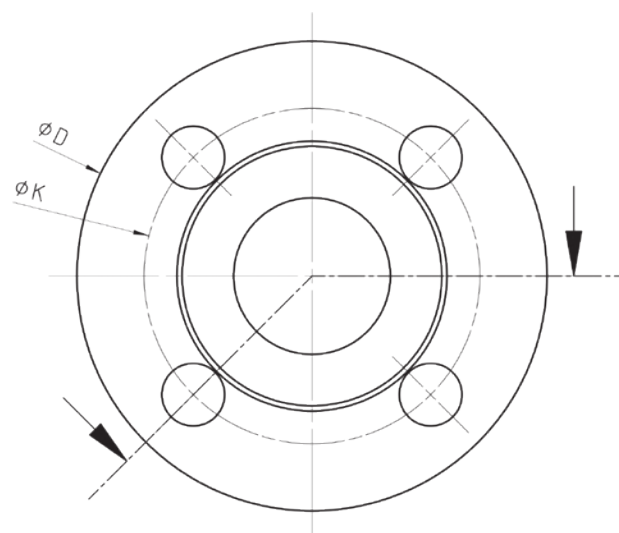
On request, our steel components can be:

- › Galvanised
- › Painted

We can also add unique customer identification markings to your specifications.



*We have always parts
for fast and individual
solutions in stock.*



8.1. Threads and flanges

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8.2. Materials

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8.1.1. Threaded connections

In principle, threads are classified as hose and tank units independent of the thread type. A threaded connection allows the transmission of high axial forces.

In the application area of fittings, tensile forces can be absorbed on the one hand and the sealing forces required to make the connection medium- and gas-tight can be produced on the other. To establish such a connection between a hose and tank unit, the threads to be

connected must be compatible. This is achieved by using compatible geometrical thread parameters whose characteristics are defined in the various standards for the different thread types.

The selection of a thread type is particularly influenced by its prevalence in the respective fields of application. The following overview is intended to help you identify the suitable thread type.

Overview of threads commonly used in valve technology

Description	Description	Standard	Application areas
General	International		
G-thread	BSP	DIN EN ISO 228	General industry
R-thread	BSPT	DIN 2999 / EN 10226 1-3	
NPS	NPS	ANSI / ASME B 1.20.1	
NPT	NPT	ANSI / ASME B 1.20.1/3	
Milk pipe round thread	Round thread	DIN 405 1-2	Foodstuffs, Pharmaceutical
ACME	ACME	ASME B1.5	Gas
Metric ISO-thread	Metric thread	DIN 13	Hydraulics
5 1/2" rail tank wagon thread	–	DIN 11	Loading rail tank wagons

Overview of identifying features

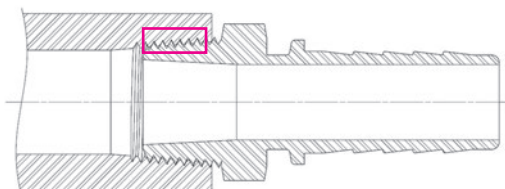
Description	Male thread	Female thread
G-thread	cylindrical	cylindrical with seal
R-thread	conical	cylindrical without seal
NPS	cylindrical	cylindrical with seal
NPT	conical	conical
Milk pipe round thread	cylindrical with seal	cylindrical
ACME	cylindrical with seal	cylindrical with sealing face
Metric ISO-thread	cylindrical with cone	cylindrical with conical face
5 1/2" rail tank wagon thread	cylindrical	cylindrical with seal

Overview of types of seal

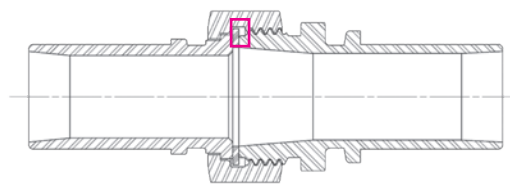
Description	Seal type	Sealing point	Compatibility	Notes
G-thread	flat	Thread seal	R-thread	if AG flat sealing
R-thread	conical	Thread + sealing band	G-thread	if AG flat sealing
NPS	flat	Thread seal	NPT	
NPT	Thread	Thread + sealing band	NPS	if AG flat sealing
Milk pipe round thread	flat	Thread seal	–	
ACME	flat	Thread seal	–	
Metric ISO-thread	conical	Cone/metallic	–	24 or 60 degree cone
5 1/2" rail tank wagon thread	flat	Thread seal	–	

8.1.1. Threaded connections

For safety fittings with a threaded connection generally only use BSP and NPT threads:



NPT

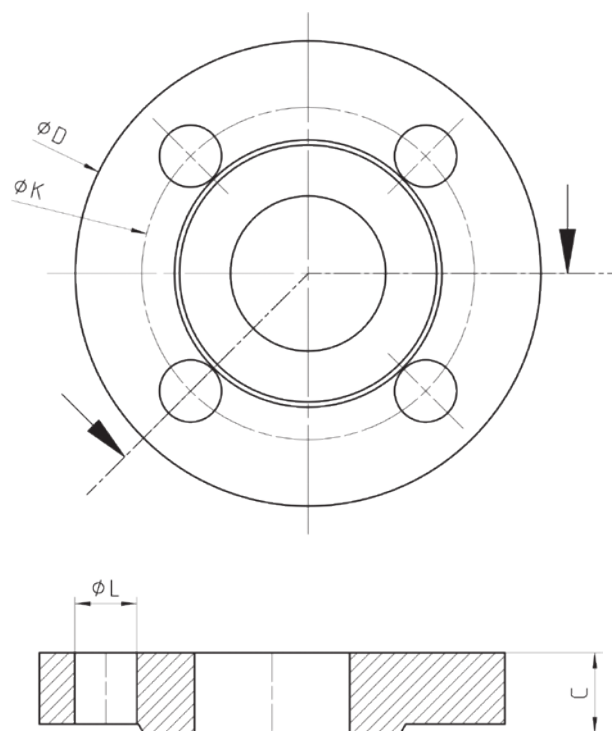


G

8.1.2. Flanged connection

Flange connections are classified as so-called swivel flanges and fixed flanges. The swivel flange connection is characterised by a freely rotatable flange disk positioned on a fitting. On this flange disk, the bolt holes required for the connection are evenly arranged in a circle. This allows changing the bolt holes' position by rotating the flange disk around its longitudinal axis. The opposite is true for the fixed flange connection - here the bolt holes are arranged on a disk firmly connected with the rest of the fitting. Thus, the bolt holes cannot be positioned independently of the rest of the fitting.

As a rule, hose lines with flange connections are equipped with a swivel flange on the one hand and a fixed flange on the other. This way, torsions that can damage the hose or hinder its use can be avoided. Connections between two swivel flanges, two fixed flanges as well as between a swivel flange and a fixed flange are possible and permitted in the case that both connecting units are compatible.



4.1 Explanation flange tables

- ϕD (Diameter)
- ϕk (Hole circle diameter)
- n (Number of holes)
- ϕL (Hole diameter)
- C (Thickness)

8.1.2. Flanged connection

Two flange connections are compatible when both flanges are designed in accordance with the same technical standard and, if applicable, for the same pressure rating. The technical standards and the pressure ratings that may be contained therein provide information on the dimensioning of the connection-relevant measures. Flanges of different standards and/or pressure ratings are incompatible and technically not permissible.

Hose fittings

Quick couplings

Adapter

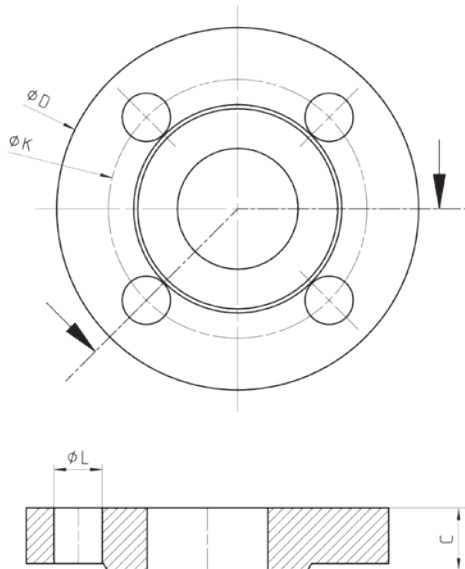
Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex



EN 1092-1

DN		ϕD		ϕk		n	ϕL		C
mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)		mm (inch)	mm (inch)	
20 (3/4")									
25 (1")									
32 (1 1/4")									
40 (1 1/2")									
PN 16									
Use EN 1092-1 PN 40									
50 (2")	165 (6,50)	125 (4,92)	4	18 (0,71)	18 (0,71)				
65 (2 1/2")	185 (7,28)	145 (5,71)	8	18 (0,71)	18 (0,71)				
80 (3")	200 (7,87)	160 (6,30)	8	18 (0,71)	20 (0,79)				
100 (4")	220 (8,66)	180 (7,09)	8	18 (0,71)	20 (0,79)				
125 (5")	250 (9,84)	210 (8,27)	8	18 (0,71)	22 (0,87)				
150 (6")	285 (11,22)	240 (9,45)	8	22 (0,87)	22 (0,87)				
200 (8")	340 (13,39)	295 (11,61)	12	22 (0,87)	24 (0,94)				

DN		ϕD		ϕk		n	ϕL		C
mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)		mm (inch)	mm (inch)	
20 (3/4")	105 (4,13)	75 (2,95)	4	14 (0,55)	18 (0,71)				
25 (1")	115 (4,53)	85 (3,35)	4	14 (0,55)	18 (0,71)				
32 (1 1/4")	140 (5,51)	100 (3,94)	4	18 (0,71)	18 (0,71)				
40 (1 1/2")	150 (5,91)	110 (4,33)	4	18 (0,71)	18 (0,71)				
50 (2")	165 (6,50)	125 (4,92)	4	18 (0,71)	20 (0,79)				
65 (2 1/2")	185 (7,28)	145 (5,71)	8	18 (0,71)	22 (0,87)				
80 (3")	200 (7,87)	160 (6,30)	8	18 (0,71)	24 (0,94)				
100 (4")	235 (9,25)	190 (7,48)	8	22 (0,87)	24 (0,94)				
125 (5")	270 (10,63)	220 (8,66)	8	26 (1,02)	26 (1,02)				
150 (6")	300 (11,81)	250 (9,84)	8	26 (1,02)	28 (1,10)				
200 (8")	375 (14,76)	320 (12,60)	12	30 (1,18)	34 (1,34)				

8.1.2. Flanged connection

ANSI B16.5

150 PSI						
DN mm (inch)	$\varnothing D$ mm (inch)	$\varnothing k$ mm (inch)	n	$\varnothing L$ mm (inch)	C mm (inch)	
20 (3/4")	98,4 (3,87)	69,8 (2,75)	4	15,9 (0,63)	12,7 (0,50)	
25 (1")	107,9 (4,25)	79,4 (3,13)	4	15,9 (0,63)	14,3 (0,56)	
32 (1 1/4")	118,0 (4,63)	89,0 (3,50)	4	15,9 (0,63)	15,9 (0,63)	
40 (1 1/2")	127,0 (5,00)	98,0 (3,87)	4	15,9 (0,63)	17,5 (0,69)	
50 (2")	152,4 (6,00)	120,6 (4,75)	4	19,0 (0,75)	19,0 (0,75)	
65 (2 1/2")	177,8 (7,00)	139,7 (5,50)	4	19,0 (0,75)	22,2 (0,87)	
80 (3")	190,5 (7,50)	152,4 (6,00)	4	19,0 (0,75)	23,8 (0,94)	
100 (4")	228,6 (9,00)	190,5 (7,50)	8	19,0 (0,75)	23,8 (0,94)	
125 (5")	254,0 (10,00)	215,9 (8,50)	8	22,2 (0,87)	23,8 (0,94)	
150 (6")	279,4 (11,00)	241,3 (9,50)	8	22,2 (0,87)	25,4 (1,00)	
200 (8")	342,9 (13,50)	298,4 (11,75)	8	22,2 (0,87)	28,6 (1,13)	

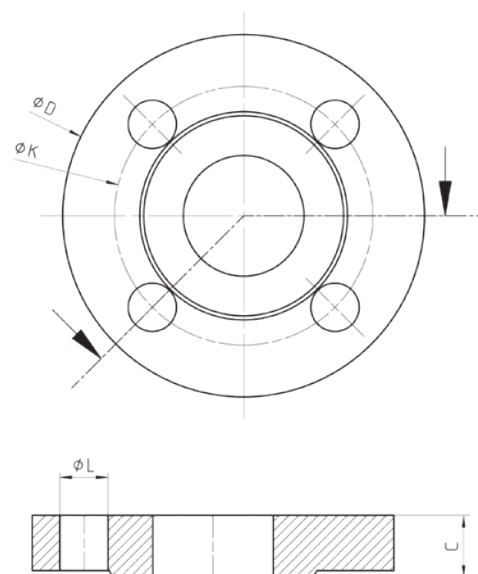
300 PSI						
DN mm (inch)	$\varnothing D$ mm (inch)	$\varnothing k$ mm (inch)	n	$\varnothing L$ mm (inch)	C mm (inch)	
20 (3/4")	117,5 (4,63)	82,5 (3,25)	4	19,0 (0,75)	15,9 (0,63)	
25 (1")	123,8 (4,87)	88,9 (3,50)	4	19,0 (0,75)	17,5 (0,69)	
32 (1 1/4")	133,3 (5,25)	98,4 (3,87)	4	19,0 (0,75)	19,0 (0,75)	
40 (1 1/2")	155,6 (6,13)	114,3 (4,50)	4	22,0 (0,87)	20,6 (0,81)	
50 (2")	165,1 (6,50)	127,0 (5,00)	8	19,0 (0,75)	22,2 (0,87)	
65 (2 1/2")	190,5 (7,50)	149,2 (5,87)	8	22,2 (0,87)	25,4 (1,00)	
80 (3")	209,5 (8,25)	168,3 (6,63)	8	22,2 (0,87)	28,6 (1,13)	
100 (4")	254,0 (10,00)	200,0 (7,87)	8	22,2 (0,87)	31,7 (1,25)	
125 (5")	279,4 (11,00)	234,9 (9,25)	8	22,2 (0,87)	34,9 (1,37)	
150 (6")	317,5 (12,50)	269,9 (10,63)	12	22,2 (0,87)	36,5 (1,44)	
200 (8")	381,0 (15,00)	330,2 (13,00)	12	25,4 (1,00)	41,3 (1,63)	

TW DIN 28459

DN	$\varnothing D$	$\varnothing k$	n	$\varnothing L$	C
80 mm / TW1	154 (6,06)	130 (5,12)	8	11 (0,43)	13 (0,51)
100 mm / TW3	174 (6,85)	150 (5,91)	8	14 (0,55)	13 (0,51)
125 mm / TW5	204 (8,03)	176 (6,93)	8	14 (0,55)	15 (0,59)
150 mm / TW7	240 (9,45)	210 (8,27)	12	14 (0,55)	15 (0,59)

TTMA

DN	$\varnothing D$	$\varnothing k$	n	$\varnothing L$	C
50 mm / 2"	114,3 (4,50)	95,3 (3,75)	6	11 (0,43)	10 (0,37)
80 mm / 3"	142,9 (5,63)	123,8 (4,87)	8	11 (0,43)	10 (0,37)
100 mm / 4"	168,3 (6,63)	149,2 (5,87)	8	11 (0,43)	10 (0,37)



Hose fittings

Quick couplings

Adapter

Gaskets

Accessories

Swivel joints

Modular welding system

Technical annex

8.2.1. Materials for fitting bodies

For a wide range of valves, there are also a large number of possible materials. Depending on the fitting, these materials are selected based on standards and/or applications. Factors such as strength, chemical and thermal resistance as well as manufacturing processes play a major role in the choice of material.

The following main groups products are used in the most diverse variants and qualities in valve technology:

Overview of the most widely used materials in valve technology

Materials by manufacturing process					
Material groups	Machined (turned/milled)	Cast	Forged	Injected	
Steel	1.0254, 1.0570, 1.0038, 1.0718	–	–	–	
Stainless steel 2A grade	1.4301, 1.4305, 1.4541	–	–	–	
Stainless steel 4A grade	1.4571, 1.4404, 1.4435	1.4401, 1.4408	–	–	
Hastelloy	2.4610, 2.4602, 2.4600, 2.4819	–	–	–	
Brass	CW614N, CW617N	CW614N, CW617N	CW614N, CW617N	–	
Aluminium	EN AW-6060	EN AC-47000	EN AW-6082	–	
Plastics	Polypropylen, PEEK, PTFE, POM	–	–	Polyamid	

For safety coupling stainless steel, aluminium or (rarely) brass are usually used.

8.2.2. Materials for seals

The large number of thread and coupling seals require a variety of materials for seals. Elastomeric seals are common for this purpose. These include:

Overview and characteristics of the most widely used sealants in fitting technology

Material	Chemical properties	Physical properties
FKM / FPM (VITON®) ¹	Good general chemical resistance good ozone & weathering resistance	High temperature resistance at water & water vapour max. 60°C operating temperature -20° – +200°C
NBR (Perbunan®) ²	Good resistance to petroleum & fuel limited ozone & weathering resistance	Good mechanical properties (abrasion resistance) good low-temperature behaviour temperature range -50° – +110°C
Polyurethane (VULKOLLAN®) ³	Good resistance to petroleum & fuel poor chemical resistance	Good mechanical strength (wear & tear resistance, elasticity) operating temperature -40° – +110°C
PTFE (TEFLON®) ⁴	Universal chemical resistance good ozone & weathering resistance	Good anti-friction properties high temperature resistance operating range -40° – +250°C
CSM (HYPALON®) ¹	Good acid & lye resistance good resistance to petroleum & fuel	Good mechanical strength (wear & tear resistance, elasticity) operating temperature -35° – +140°C
FFKM (KALREZ®) ¹	excellent chemical resistance	High temperature resistance operating range -25° – +225°C
Novapress Multi	Good steam & hot-water resistance good resistance to petroleum & fuel	High pressure resistance operating range -25° – +250°C
EPDM	Good steam & hot-water resistance poor resistance to petroleum & fuel good ozone & weathering resistance	Good mechanical strength (wear & tear resistance) operating temperature -50° – +180°C

(1 = Dupont Performance Elastomers L.L.C. / 2 = LANXESS Germany GmbH / 3 = Covestro Germany AG / 4 = The Chemours Company FC, LLC)

Depending on the particular application, a suitable sealant must also be used in addition to the suitable valve material. Please contact the manufacturer of the safety fittings for assistance in choosing an appropriate seal.

8.2.3. Surface finishing / surface protection

Corrosive media call for special fittings which provide suitable surface protection.

For protection against aggressive media such as acids and lyes, highly chemical-resistant fluoroplastic coatings are used. These include PTFE, FEP, E-CTFE, ETFE, or PFA.

This coating is applied to areas that come into contact with the media. Unfortunately, not all parts of a coupling assembly can be coated. In this case highly chemical-resistant materials like nickel-based alloys (e.g. Hastelloy®) are used.

