

BlueJay™ High temperature elbows and reducers



Description:

A blue cover, with multiple plies of polyester reinforcement for strength. Available as 90-degree elbow, 45-degree elbow and reducers.

Construction

Liner (1,6mm / 0,063" min), multiple plies of polyester reinforcement, Blue jacket and gloss finish.

Specifications

Meets the operating requirements of SEE J20 R1 H.T. Class A

Temperature range -40 °F tot 350 °F [-40 °C to 177 °C]

Standard Wall Thickness is 0,169in - 0,220in [4,3 - 5,6m]

Working pressure should be calculated at 1/3 of the bursting pressure

Applications

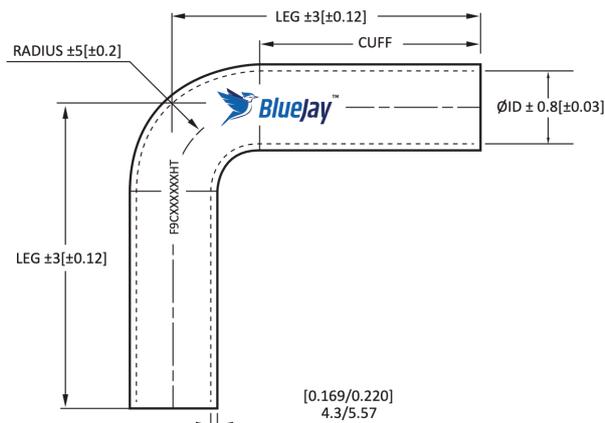
- In vehicle cooling
- Industrial plumbing
- EGR
- Cold side CAC (Charged Air Connectors)
- Anywhere very high temperature is seen and long life is needed.
- Resistant to coolant and additives.
- Resists ozone, hardening, cracking, cold leaks, aging, and many more chemicals.

Warranty: 5 years or 1000 miles [1600km]

90-degrees elbow high temperature Formed Hose.

Technical hose Specifications

- Temperature resistant silicone liner
- Reinforced with multiple plies of polyester
- UV en ozone resistant
- Rated for -40 °F tot 350 °F [-40 °C to 177 °C]
- Conforms to SAE J20 R1 H.T. Class A
- Durometer: 65-75 Shore A
- Radial dilation less then 15%

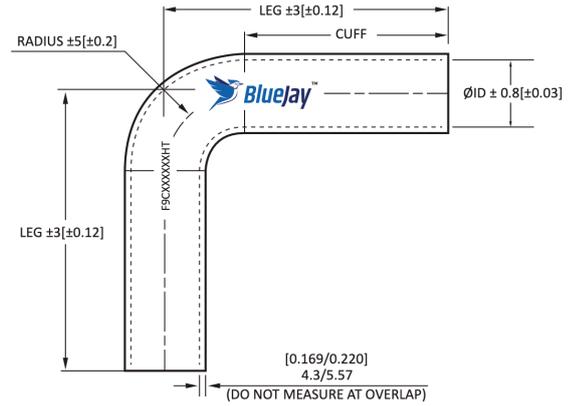


90 DEGREE ELBOW HIGH TEMPERATURE FORMED HOSE

| DG Art.nr. | ID1 | | ID2 | | LEG | | Radius | | Min Burst | |
|------------|------|--------|------|--------|------|-------|--------|-------|-----------|-----|
| | IN | mm | IN | mm | IN | mm | IN | mm | PSI | BAR |
| 4410014 | 0,50 | 12,70 | 0,50 | 12,70 | 5,0 | 127,0 | 0,75 | 19,1 | 425 | 29 |
| 4410015 | 0,75 | 19,05 | 0,75 | 19,05 | 5,0 | 127,0 | 1,13 | 28,7 | 325 | 22 |
| 4410016 | 1,00 | 25,4 | 1,00 | 25,4 | 5,0 | 127,0 | 1,50 | 38,1 | 299 | 21 |
| 4410001 | 0,50 | 12,70 | 0,50 | 12,70 | 7,0 | 177,8 | 0,75 | 19,1 | 425 | 29 |
| 4410002 | 0,75 | 19,05 | 0,75 | 19,05 | 7,0 | 177,8 | 1,13 | 28,7 | 325 | 22 |
| 4410003 | 1,00 | 25,40 | 1,00 | 25,40 | 7,0 | 177,8 | 1,50 | 38,1 | 299 | 21 |
| 4410004 | 1,25 | 31,75 | 1,25 | 31,75 | 7,0 | 177,8 | 1,88 | 47,8 | 276 | 19 |
| 4410005 | 1,50 | 38,10 | 1,50 | 38,10 | 7,0 | 177,8 | 2,25 | 57,2 | 249 | 17 |
| 4410006 | 1,75 | 44,45 | 1,75 | 44,45 | 7,0 | 177,8 | 2,64 | 66,8 | 225 | 16 |
| 4410007 | 2,00 | 50,80 | 2,00 | 50,80 | 7,0 | 177,8 | 2,50 | 63,50 | 200 | 14 |
| 4410008 | 2,25 | 57,15 | 2,25 | 57,15 | 7,0 | 177,8 | 2,80 | 71,1 | 175 | 12 |
| 4410009 | 2,50 | 63,50 | 2,50 | 63,50 | 11,0 | 279,4 | 3,13 | 79,5 | 149 | 10 |
| 4410010 | 2,75 | 69,85 | 2,75 | 69,85 | 11,0 | 279,4 | 3,44 | 87,4 | 125 | 9 |
| 4410011 | 3,00 | 76,20 | 3,00 | 76,20 | 11,0 | 279,4 | 3,75 | 95,3 | 87 | 6 |
| 4410012 | 3,50 | 88,90 | 3,50 | 88,90 | 11,0 | 279,4 | 3,38 | 111,3 | 75 | 5 |
| 4410013 | 4,00 | 101,60 | 4,00 | 101,60 | 11,0 | 279,4 | 5,00 | 127,0 | 49 | 3 |

90-degrees elbow high temperature reducer.

Technical hose Specifications
 Temperature resistant silicone liner
 Reinforced with multiple plies of polyester
 UV en ozone resistant
 Rated for -40 °F tot 350 °F [-40 °C to 177 °C]
 Conforms to SAE J20 R1 H.T. Class A
 Durometer: 65-75 Shore A
 Radial dilation less then 15%

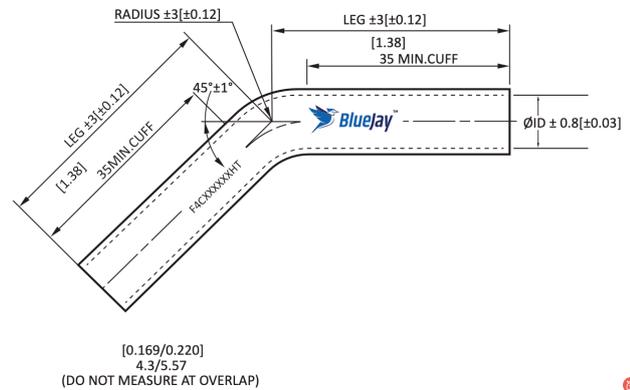


90 DEGREE ELBOW HIGH TEMPERATURE FORMED HOSE INCREASER / REDUCER

| DG Art.nr. | ID1 | | ID2 | | LEG | | Radius | | Min Burst | |
|------------|------|-------|------|--------|------|-------|--------|--------|-----------|-----|
| | IN | mm | IN | mm | IN | mm | IN | mm | PSI | BAR |
| 4411001 | 1,00 | 25,40 | 1,25 | 31,75 | 7,0 | 177,8 | 0,75 | 19,05 | 276 | 19 |
| 4411002 | 1,00 | 25,40 | 1,50 | 38,10 | 7,0 | 177,8 | 1,13 | 28,702 | 249 | 17 |
| 4411003 | 1,50 | 38,10 | 1,75 | 44,45 | 7,0 | 177,8 | 1,50 | 38,1 | 225 | 16 |
| 4411004 | 1,50 | 38,10 | 2,00 | 50,80 | 7,0 | 177,8 | 1,88 | 47,752 | 200 | 14 |
| 4411005 | 2,00 | 50,80 | 2,25 | 57,15 | 7,0 | 177,8 | 2,25 | 57,15 | 175 | 12 |
| 4411006 | 2,00 | 50,80 | 2,50 | 63,50 | 7,0 | 177,8 | 2,64 | 66,802 | 149 | 10 |
| 4411007 | 2,50 | 63,50 | 2,75 | 69,85 | 11,0 | 279,4 | 2,50 | 63,50 | 125 | 9 |
| 4411008 | 2,50 | 63,50 | 3,00 | 76,20 | 11,0 | 279,4 | 2,80 | 89,662 | 87 | 6 |
| 4411009 | 3,00 | 76,20 | 3,50 | 88,90 | 11,0 | 279,4 | 3,13 | 69,502 | 75 | 5 |
| 4411010 | 3,50 | 88,90 | 4,0 | 101,60 | 11,0 | 279,4 | 3,44 | 87,376 | 49 | 3 |

45-degrees elbow high temperature Formed hose.

Technical hose Specifications
 Temperature resistant silicone liner
 Reinforced with multiple plies of polyester
 UV en ozone resistant
 Rated for -40 °F tot 350 °F [-40 °C to 177 °C]
 Conforms to SAE J20 R1 H.T. Class A
 Durometer: 65-75 Shore A
 Radial dilation less then 15%

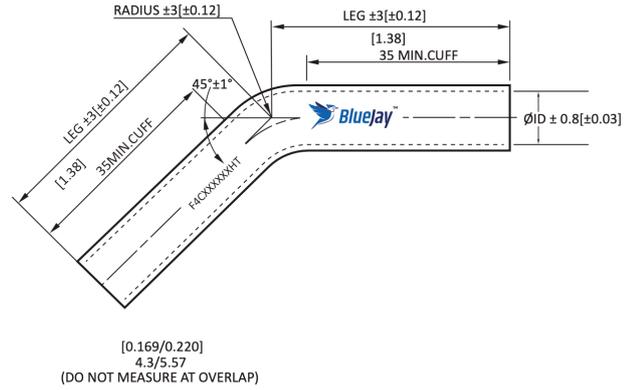


45 DEGREE ELBOW HIGH TEMPERATURE FORMED HOSE

| DG Art.nr. | ID1 | | ID2 | | LEG | | Radius | | Min Burst | |
|------------|------|--------|------|--------|------|-------|--------|-------|-----------|-----|
| | IN | mm | IN | mm | IN | mm | IN | mm | PSI | BAR |
| 4412001 | 0,50 | 12,70 | 0,50 | 12,70 | 5,0 | 127,0 | 0,75 | 19,1 | 425 | 29 |
| 4412002 | 0,50 | 12,70 | 0,50 | 12,70 | 7,0 | 177,8 | 0,75 | 19,1 | 425 | 29 |
| 4412003 | 0,75 | 19,05 | 0,75 | 19,05 | 5,0 | 127,0 | 1,13 | 28,7 | 325 | 22 |
| 4412004 | 0,75 | 19,05 | 0,75 | 19,05 | 7,0 | 177,8 | 1,13 | 28,7 | 325 | 22 |
| 4412005 | 1,00 | 25,40 | 1,00 | 25,40 | 5,0 | 127,0 | 1,50 | 38,1 | 299 | 21 |
| 4412006 | 1,00 | 25,40 | 1,00 | 25,40 | 7,0 | 177,8 | 1,50 | 38,1 | 299 | 21 |
| 4412007 | 1,25 | 31,75 | 1,25 | 31,75 | 7,0 | 177,8 | 1,88 | 47,8 | 276 | 19 |
| 4412008 | 1,50 | 38,10 | 1,50 | 38,10 | 7,0 | 177,8 | 2,25 | 57,2 | 249 | 17 |
| 4412009 | 1,75 | 44,45 | 1,75 | 44,45 | 7,0 | 177,8 | 2,64 | 66,8 | 225 | 16 |
| 4412010 | 2,00 | 50,8 | 2,00 | 50,8 | 7,0 | 177,8 | 2,50 | 63,50 | 200 | 14 |
| 4412011 | 2,25 | 57,15 | 2,25 | 57,15 | 7,0 | 177,8 | 2,80 | 71,1 | 175 | 12 |
| 4412012 | 2,50 | 63,50 | 2,50 | 63,50 | 11,0 | 279,4 | 3,13 | 79,5 | 149 | 10 |
| 4412013 | 2,75 | 69,85 | 2,75 | 69,85 | 11,0 | 279,4 | 3,44 | 87,4 | 125 | 9 |
| 4412014 | 3,00 | 76,20 | 3,00 | 76,20 | 11,0 | 279,4 | 3,75 | 95,3 | 87 | 6 |
| 4412015 | 3,50 | 88,90 | 3,50 | 88,90 | 11,0 | 279,4 | 4,38 | 111,3 | 75 | 5 |
| 4412016 | 4,00 | 101,60 | 4,00 | 101,60 | 11,0 | 279,4 | 5,0 | 127,0 | 49 | 3 |

45-degrees elbow high temperature reducer.

Technical hose Specifications
 Temperature resistant silicone liner
 Reinforced with multiple plies of polyester
 UV en ozone resistant
 Rated for -40 °F tot 350 °F [-40 °C to 177 °C]
 Conforms to SAE J20 R1 H.T. Class A
 Durometer: 65-75 Shore A
 Radial dilation less then 15%

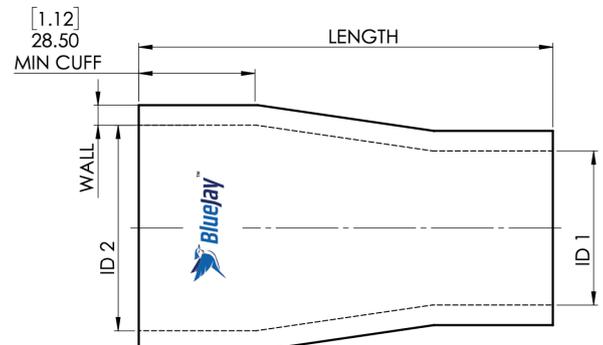


45 DEGREE ELBOW HIGH TEMPERATURE FORMED HOSE INCREASER / REDUCER

| DG Art.nr. | ID1 | | ID2 | | LEG | | Radius | | Min Burst | |
|------------|------|-------|------|-------|-----|--------|--------|--------|-----------|-----|
| | IN | mm | IN | mm | IN | mm | IN | mm | PSI | BAR |
| 4413001 | 1,00 | 25,40 | 1,25 | 31,75 | 7,0 | 177,8 | 0,75 | 19,1 | 276 | 19 |
| 4413002 | 1,00 | 25,40 | 1,50 | 38,10 | 7,0 | 177,8 | 1,13 | 28,702 | 249 | 17 |
| 4413003 | 1,50 | 38,10 | 1,75 | 44,45 | 7,0 | 177,8 | 1,13 | 28,7 | 225 | 16 |
| 4413004 | 1,50 | 38,10 | 2,00 | 50,80 | 7,0 | 177,8 | 1,13 | 28,7 | 200 | 14 |
| 4413005 | 2,00 | 50,80 | 2,25 | 57,15 | 7,0 | 177,8 | 1,50 | 38,1 | 175 | 12 |
| 4413006 | 2,00 | 50,80 | 2,50 | 63,50 | 7,0 | 177,8 | 1,50 | 38,1 | 149 | 10 |
| 4413007 | 2,50 | 63,50 | 2,75 | 69,85 | 11 | 279,40 | 1,88 | 47,8 | 125 | 9 |
| 4413008 | 2,50 | 63,50 | 3,00 | 76,20 | 11 | 279,40 | 2,25 | 57,2 | 87 | 6 |
| 4413009 | 3,00 | 76,20 | 2,75 | 69,85 | 11 | 279,40 | 2,64 | 66,8 | 75 | 5 |
| 4413010 | 3,50 | 88,90 | 3,00 | 76,20 | 11 | 279,40 | 2,50 | 63,50 | 49 | 3 |

High Temperature Straight Reducer

Technical hose Specifications
 Temperature resistant silicone liner
 Reinforced with multiple plies of polyester
 UV en ozone resistant
 Rated for -40 °F tot 350 °F [-40 °C to 177 °C]
 Conforms to SAE J20 R1 H.T. Class A
 Durometer: 65-75 Shore A
 Radial dilation less then 15%



HIGH TEMPERATURE FORMED HOSE STRAIGHT INCREASER / REDUCER

| DG Art.nr. | ID1 | | ID2 | | LEG | | Min Burst | |
|------------|------|-------|------|--------|-----|--------|-----------|-----|
| | IN | mm | IN | mm | IN | mm | PSI | BAR |
| 4414001 | 1,00 | 25,40 | 1,25 | 31,75 | 4,0 | 101,60 | 276 | 19 |
| 4414002 | 1,00 | 25,40 | 1,50 | 38,10 | 4,0 | 101,60 | 249 | 17 |
| 4414003 | 1,50 | 38,10 | 1,75 | 44,45 | 4,0 | 101,60 | 225 | 16 |
| 4414004 | 1,50 | 38,10 | 2,00 | 50,80 | 4,0 | 101,60 | 200 | 14 |
| 4414005 | 2,00 | 50,80 | 2,25 | 57,15 | 4,0 | 101,60 | 175 | 12 |
| 4414006 | 2,00 | 50,80 | 2,50 | 63,50 | 4,0 | 101,60 | 149 | 10 |
| 4414007 | 2,50 | 63,50 | 2,75 | 69,85 | 4,0 | 101,60 | 125 | 9 |
| 4414008 | 2,50 | 63,50 | 3,00 | 76,20 | 4,0 | 101,60 | 87 | 6 |
| 4414009 | 3,00 | 76,20 | 3,50 | 88,90 | 4,0 | 101,60 | 75 | 5 |
| 4414010 | 3,50 | 88,90 | 4,00 | 101,60 | 4,0 | 101,60 | 49 | 3 |

High Temperature FIT and Clamping

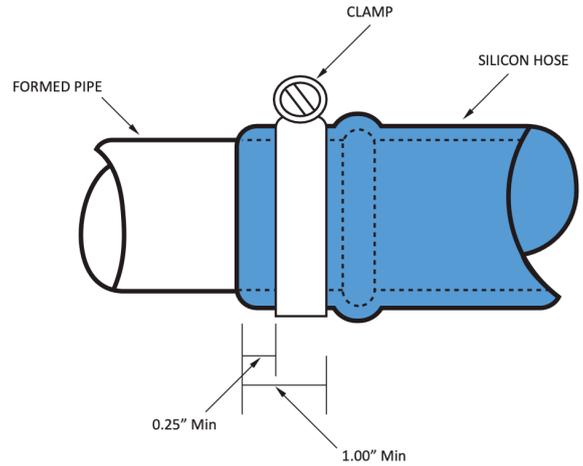
The below guidelines follow TMC RP 332 C

Hose should be snug on pipe and not loose. If needed, lubricate with water and mild liquid soap solution. Do NOT lubricate hoses with ethylene glycol, propylene glycol or petroleum-based products.

Do NOT over tighten clamps.

Leave minimum of 0,25" [6,35mm] open from clamp to end hose and 25,4mm [1,00"] including clamp with to end of hose

Clamp straight around hose. DO NOT clamp on pipe bead

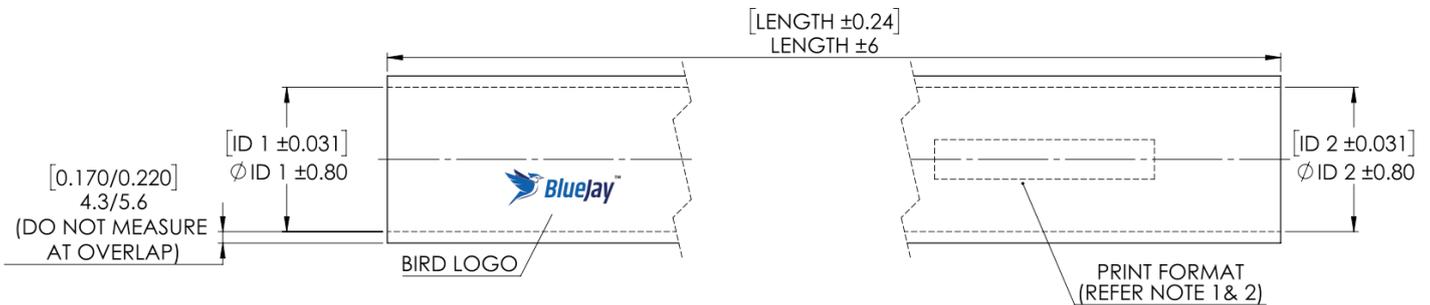


HIGH TEMPERATURE FIT AND CLAMPING

| DG Art.nr. | DESCRIPTION | TORQUE | |
|------------|---|----------|--------------|
| | | (In-lbs) | Nm |
| 4415001 | Wave Seal 360 TM Heavy-Duty Constant Tension Clamp | 40 | 4,52 |
| 4415002 | Constant torque with 9/16" (14,3mm) of 5/8" (15,9) band | 70 - 90 | 7,91 - 10,17 |
| 4415003 | Vibrant resistant spring-load T-Bolt | 60 - 70 | 6,78 - 7,91 |

High Temperature Straight Hose

- Technical hose Specifications
- Temperature resistant silicone liner
- Reinforced with multiple plies of polyester
- UV en ozone resistant
- Rated for -40 °F tot 350 °F [-40 °C to 177 °C]
- Conforms to SAE J20 R1 H.T. Class A
- Durometer: 65-75 Shore A
- Radial dilation less then 15%



STRAIGHT HOSE 1METER ELBOW HIGH TEMPERATURE FORMED HOSE

| DG Art.nr. | ID1 | | ID2 | | LEG | | Min Burst | |
|------------|-------|--------|-------|--------|-------|-------|-----------|------|
| | IN | mm | IN | mm | IN | mm | PSI | BAR |
| 4416001 | 0,50 | 12,70 | 0,50 | 12,70 | 39,37 | 10000 | 425 | 29,3 |
| 4416002 | 0,625 | 15,875 | 0,625 | 15,875 | 39,37 | 10000 | 375,7 | 25,9 |
| 4416003 | 0,75 | 19,05 | 0,75 | 19,05 | 39,37 | 10000 | 324,9 | 22,4 |
| 4416004 | 1,00 | 25,40 | 1,00 | 25,40 | 39,37 | 10000 | 298,8 | 20,6 |
| 4416005 | 1,25 | 31,75 | 1,25 | 31,75 | 39,37 | 10000 | 275,6 | 19,0 |
| 4416006 | 1,50 | 38,10 | 1,50 | 38,10 | 39,37 | 10000 | 249,5 | 17,2 |
| 4416007 | 1,75 | 44,45 | 1,75 | 44,45 | 39,37 | 10000 | 224,8 | 15,5 |
| 4416008 | 2,00 | 50,80 | 2,00 | 50,80 | 39,37 | 10000 | 200,2 | 13,8 |
| 4416009 | 2,25 | 57,15 | 2,25 | 57,15 | 39,37 | 10000 | 175,5 | 12,1 |
| 4416010 | 2,50 | 63,50 | 2,50 | 63,50 | 39,37 | 10000 | 149,7 | 10,3 |
| 4416011 | 2,75 | 69,85 | 2,75 | 69,85 | 39,37 | 10000 | 124,7 | 8,6 |
| 4416012 | 3,00 | 76,20 | 3,00 | 76,20 | 39,37 | 10000 | 87,0 | 6,0 |
| 4416013 | 3,50 | 88,90 | 3,50 | 88,90 | 39,37 | 10000 | 75,4 | 5,2 |
| 4416014 | 3,75 | 95,25 | 3,75 | 95,25 | 39,37 | 10000 | 60,1 | 4,2 |
| 4416015 | 4,00 | 101,60 | 4,00 | 101,60 | 39,37 | 10000 | 49,3 | 3,4 |

STRAIGHT HOSE 36" (914,4MM) ELBOW HIGH TEMPERATURE FORMED HOSE

| DG Art.nr. | ID1 | | ID2 | | LEG | | Min Burst | |
|------------|-------|--------|-------|--------|-----|-------|-----------|------|
| | IN | mm | IN | mm | IN | mm | PSI | BAR |
| 4416016 | 0,50 | 12,70 | 0,50 | 12,70 | 36 | 914,4 | 425 | 29,3 |
| 4416017 | 0,625 | 15,875 | 0,625 | 15,875 | 36 | 914,4 | 375,7 | 25,9 |
| 4416018 | 0,75 | 19,05 | 0,75 | 19,05 | 36 | 914,4 | 324,9 | 22,4 |
| 4416019 | 1,00 | 25,40 | 1,00 | 25,40 | 36 | 914,4 | 298,8 | 20,6 |
| 4416020 | 1,25 | 31,75 | 1,25 | 31,75 | 36 | 914,4 | 275,6 | 19,0 |
| 4416021 | 1,50 | 38,10 | 1,50 | 38,10 | 36 | 914,4 | 249,5 | 17,2 |
| 4416022 | 1,75 | 44,45 | 1,75 | 44,45 | 36 | 914,4 | 224,8 | 15,5 |
| 4416023 | 2,00 | 50,80 | 2,00 | 50,80 | 36 | 914,4 | 200,2 | 13,8 |
| 4416024 | 2,25 | 57,15 | 2,25 | 57,15 | 36 | 914,4 | 175,5 | 12,1 |
| 4416025 | 2,50 | 63,50 | 2,50 | 63,50 | 36 | 914,4 | 149,7 | 10,3 |
| 4416026 | 2,75 | 69,85 | 2,75 | 69,85 | 36 | 914,4 | 124,7 | 8,6 |
| 4416027 | 3,00 | 76,20 | 3,00 | 76,20 | 36 | 914,4 | 87,0 | 6,0 |
| 4416028 | 3,50 | 88,90 | 3,50 | 88,90 | 36 | 914,4 | 75,4 | 5,2 |
| 4416029 | 3,75 | 95,25 | 3,75 | 95,25 | 36 | 914,4 | 60,1 | 4,2 |
| 4416030 | 4,00 | 101,60 | 4,00 | 101,60 | 36 | 914,4 | 49,3 | 3,4 |