

## 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

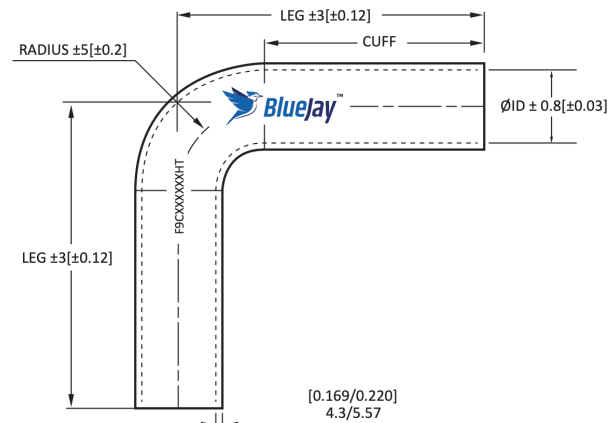
UV en ozone resistant

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%

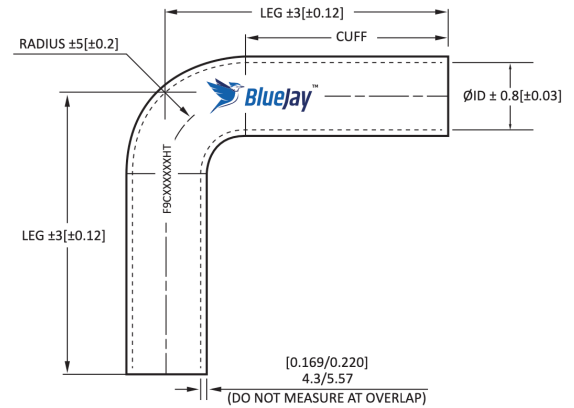


90 DEGREE ELBOW HIGH TEMPERATURE FORMED HOSE

| 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%

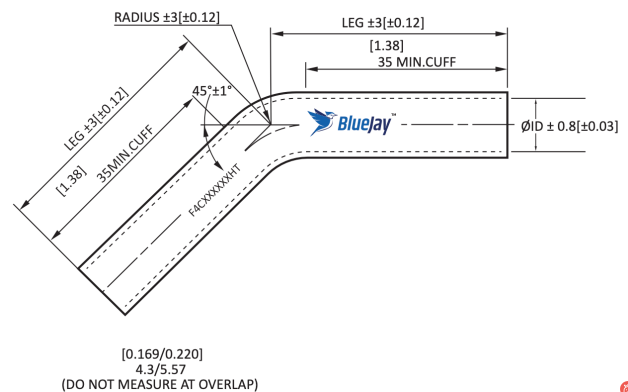


90 DEGREE ELBOW HIGH TEMPERATURE FORMED HOSE INCREASER / REDUCER

| 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%

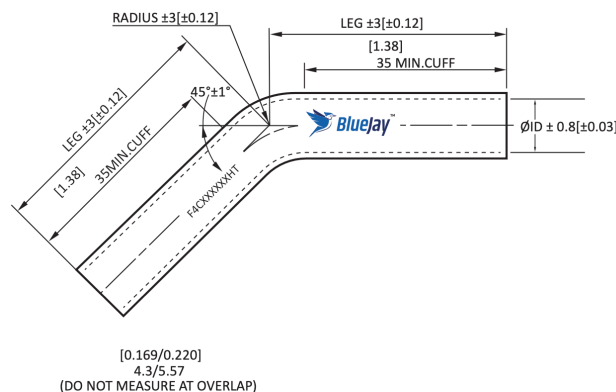


45 DEGREE ELBOW HIGH TEMPERATURE FORMED HOSE

| 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%

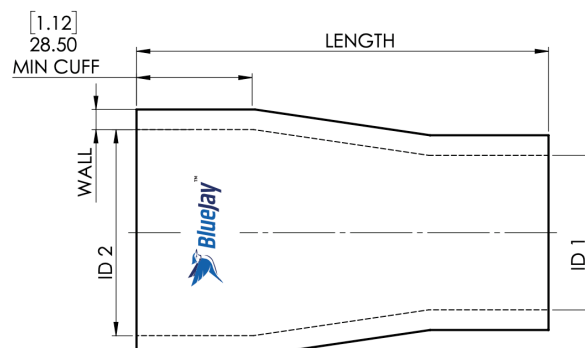


45 DEGREE ELBOW HIGH TEMPERATURE FORMED HOSE INCREASER / REDUCER

| 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

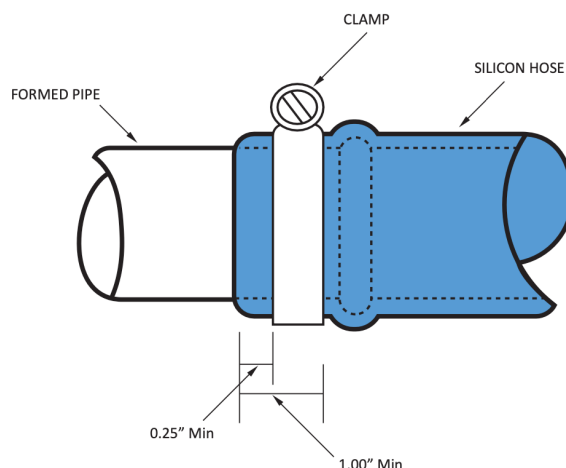
The below guidelines follow TMC RP 332 C

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

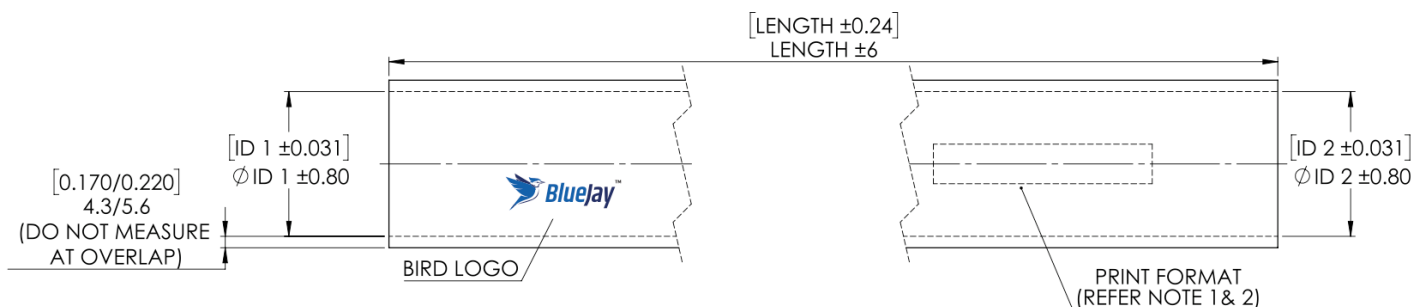
UV en ozone resistant

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%



Take Notice! Currently only the 914,4mm are available. The 1m are only available on request with a minimum quantity of 20 pieces.

Straight Hose 36" (914,4mm) 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  | 36  | 914,4 | 425       | 29,3 |
| 4416002    | 0,625 | 15,875 | 0,625 | 15,875 | 36  | 914,4 | 375,7     | 25,9 |
| 4416003    | 0,75  | 19,05  | 0,75  | 19,05  | 36  | 914,4 | 324,9     | 22,4 |
| 4416004    | 1,00  | 25,40  | 1,00  | 25,40  | 36  | 914,4 | 298,8     | 20,6 |
| 4416005    | 1,25  | 31,75  | 1,25  | 31,75  | 36  | 914,4 | 275,6     | 19,0 |
| 4416006    | 1,50  | 38,10  | 1,50  | 38,10  | 36  | 914,4 | 249,5     | 17,2 |
| 4416007    | 1,75  | 44,45  | 1,75  | 44,45  | 36  | 914,4 | 224,8     | 15,5 |
| 4416008    | 2,00  | 50,80  | 2,00  | 50,80  | 36  | 914,4 | 200,2     | 13,8 |
| 4416009    | 2,25  | 57,15  | 2,25  | 57,15  | 36  | 914,4 | 175,5     | 12,1 |
| 4416010    | 2,50  | 63,50  | 2,50  | 63,50  | 36  | 914,4 | 149,7     | 10,3 |
| 4416011    | 2,75  | 69,85  | 2,75  | 69,85  | 36  | 914,4 | 124,7     | 8,6  |
| 4416012    | 3,00  | 76,20  | 3,00  | 76,20  | 36  | 914,4 | 87,0      | 6,0  |
| 4416013    | 3,50  | 88,90  | 3,50  | 88,90  | 36  | 914,4 | 75,4      | 5,2  |
| 4416014    | 3,75  | 95,25  | 3,75  | 95,25  | 36  | 914,4 | 60,1      | 4,2  |
| 4416015    | 4,00  | 101,60 | 4,00  | 101,60 | 36  | 914,4 | 49,3      | 3,4  |

Straight Hose 1 meter (36") 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  | 39,37 | 10000 | 425       | 29,3 |
| 4416017    | 0,625 | 15,875 | 0,625 | 15,875 | 39,37 | 10000 | 375,7     | 25,9 |
| 4416018    | 0,75  | 19,05  | 0,75  | 19,05  | 39,37 | 10000 | 324,9     | 22,4 |
| 4416019    | 1,00  | 25,40  | 1,00  | 25,40  | 39,37 | 10000 | 298,8     | 20,6 |
| 4416020    | 1,25  | 31,75  | 1,25  | 31,75  | 39,37 | 10000 | 275,6     | 19,0 |
| 4416021    | 1,50  | 38,10  | 1,50  | 38,10  | 39,37 | 10000 | 249,5     | 17,2 |
| 4416022    | 1,75  | 44,45  | 1,75  | 44,45  | 39,37 | 10000 | 224,8     | 15,5 |
| 4416023    | 2,00  | 50,80  | 2,00  | 50,80  | 39,37 | 10000 | 200,2     | 13,8 |
| 4416024    | 2,25  | 57,15  | 2,25  | 57,15  | 39,37 | 10000 | 175,5     | 12,1 |
| 4416025    | 2,50  | 63,50  | 2,50  | 63,50  | 39,37 | 10000 | 149,7     | 10,3 |
| 4416026    | 2,75  | 69,85  | 2,75  | 69,85  | 39,37 | 10000 | 124,7     | 8,6  |
| 4416027    | 3,00  | 76,20  | 3,00  | 76,20  | 39,37 | 10000 | 87,0      | 6,0  |
| 4416028    | 3,50  | 88,90  | 3,50  | 88,90  | 39,37 | 10000 | 75,4      | 5,2  |
| 4416029    | 3,75  | 95,25  | 3,75  | 95,25  | 39,37 | 10000 | 60,1      | 4,2  |
| 4416030    | 4,00  | 101,60 | 4,00  | 101,60 | 39,37 | 10000 | 49,3      | 3,4  |