

| Standard executions | | |
|---|--------|------------|
| Version | Symbol | Type |
| Double acting, magnetic self lubricating bushings | | GSB |
| Double acting, magnetic spherical bushings | | GSS |



Series of twin-rod cylinders magnetic as standard. This cylinder is of two-axle mode with double thrust force and smooth and precise operation. A one piece body is provided with grooves allowing the mounting of the magnetic reed switch without further brackets; this makes the magnetic sensor not protrude outside the body itself. The bottom plates are provided with elastic cushionings.

For the magnetic reed switches type ASV see from page 1.110.1.

| Options | Suffix |
|--------------------|------------|
| Special on request | / S |

How to order: 20/30 GSB

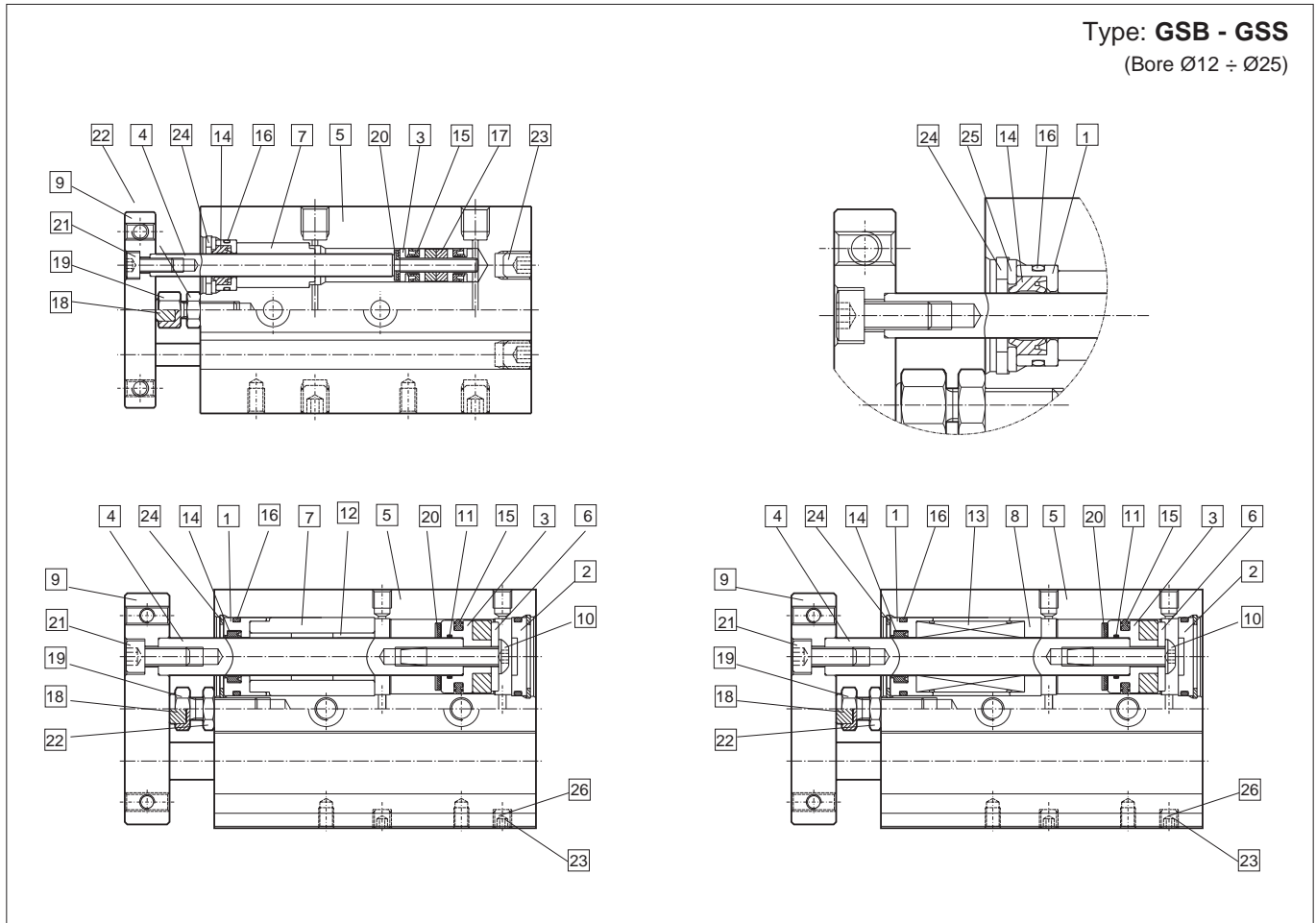
| 20 | / | 30 | GSB | |
|------|---|--------|------|--------|
| Bore | / | Stroke | Type | Option |

| Technical data | | | | | | |
|-------------------|--|------|-----------|----------------|-------------|------|
| Fluid | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued. | | | | | |
| Bore | Ø 6 | Ø 10 | Ø 16 | Ø 20 | Ø 25 | Ø 32 |
| Pressure range | 1.5 ÷ 7 bar | | 1 ÷ 7 bar | | 0.5 ÷ 7 bar | |
| Speed range | 30÷300 mm/sec. | | | 30÷500 mm/sec. | | |
| Adjustable stroke | 0 ÷ -5 mm | | | | | |
| Temperature range | - 10 °C ÷ + 60°C | | | | | |

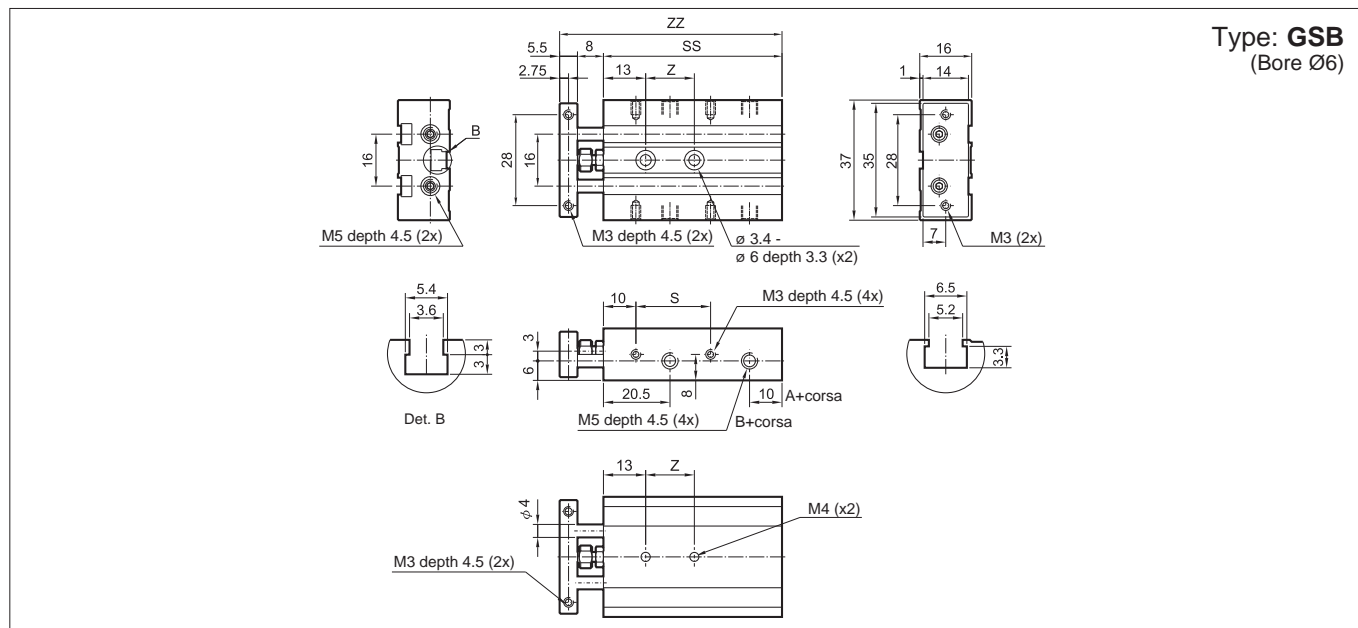
| Bore (mm) | Standard stroke GSB | Standard stroke GSS |
|-----------|---|---|
| 6 | 10, 20, 30, 40, 50 | 10, 20, 30, 40, 50 |
| 10 | 10, 15, 20, 25, 30, 35, 40, 45, 50 | 10, 15, 20, 25, 30, 35, 40, 45, 50 |
| 16 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100, 125, 150 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100, 125, 150 |
| 20 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100, 125, 150 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100, 125, 150 |
| 25 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100, 125, 150 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100, 125, 150 |
| 32 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100, 125, 150 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100, 125, 150 |



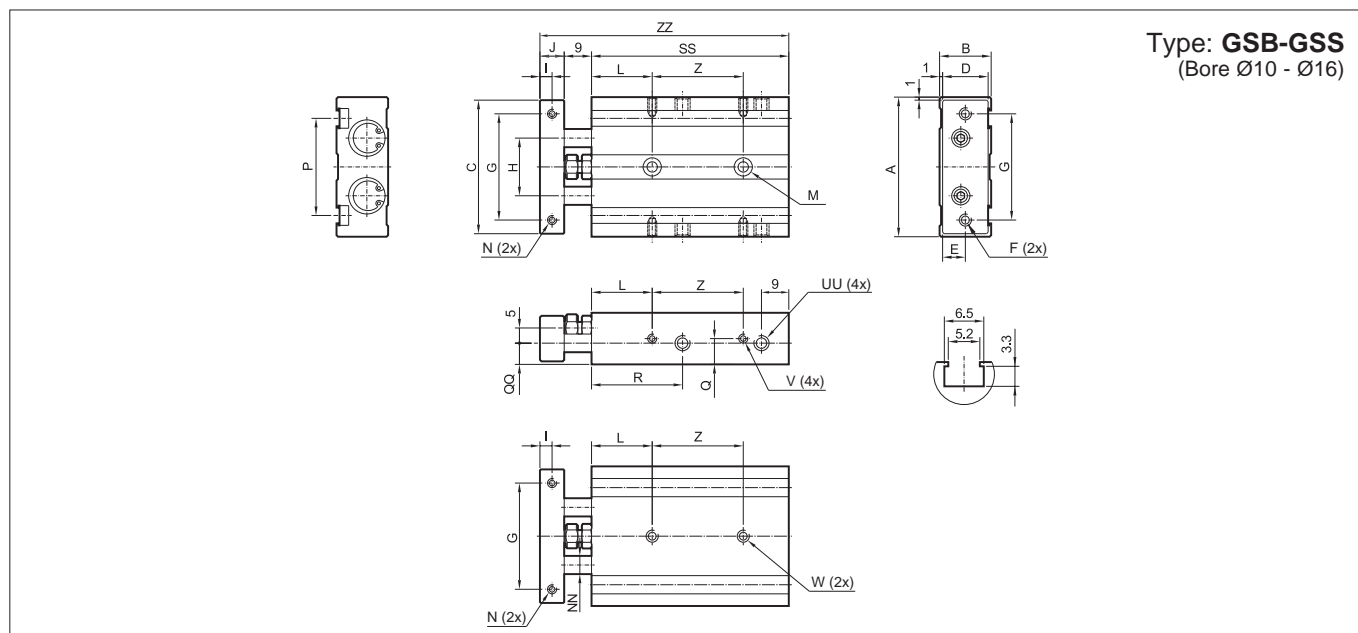
Type: **GSB - GSS**
(Bore $\varnothing 12 \div \varnothing 25$)



| Materials | | | | | |
|-----------|-----------------|--|----|-----------------|-----------------------------|
| 1 | Rod cover | Hard anodised aluminium alloy | 14 | Rod packing | PU |
| 2 | Head cover | Hard anodised aluminium alloy | 15 | Piston packing | Nitrile rubber NBR |
| 3 | Piston | Brass ($\varnothing 6$) - Aluminium alloy ($\varnothing 10 \div \varnothing 32$) | 16 | Cylinder gasket | Nitrile rubber NBR |
| 4 | Piston rod | Stainless steel (GSB $\varnothing 6 \div \varnothing 10$) Carbon steel (GSB $\varnothing 16 \div \varnothing 32$) Special steel (GSS) | 17 | Magnet | Magnetic material |
| 5 | Cylinder tube | Hard anodised aluminium alloy | 18 | Rubber pillar | Nitrile rubber NBR |
| 6 | Magnet holder | Stainless steel | 19 | Adjusting screw | Stainless steel |
| 7 | Bearing holder | Brass ($\varnothing 6$) - Aluminium alloy ($\varnothing 10 \div \varnothing 32$) | 20 | Rubber lining | Nitrile rubber NBR |
| 8 | Bearing holder | Aluminium alloy ($\varnothing 10 \div \varnothing 32$) | 21 | Screw | Carbon steel nickel plating |
| 9 | Guide plate | Hard anodised aluminium alloy | 22 | Lock nut | Carbon steel nickel plating |
| 10 | Nut | Carbon steel nickel plating | 23 | Set screw | Carbon steel |
| 11 | O-ring | Nitrile rubber NBR | 24 | Retaining ring | Carbon steel nickel plating |
| 12 | Oilless bearing | Oil-impregnated sintered alloy | 25 | Steel pad | Stainless steel |
| 13 | Linear bearing | Special steel | 26 | Port gasket | Nitrile rubber NBR |



| Ø mm | Stroke = 10 | | | | Stroke = 20 | | | | Stroke = 30 | | | | Stroke = 40 | | | | Stroke = 50 | | | |
|------|-------------|----|----|------|-------------|----|----|------|-------------|----|----|------|-------------|----|----|------|-------------|----|----|-------|
| | S | Z | SS | ZZ | S | Z | SS | ZZ | S | Z | SS | ZZ | S | Z | SS | ZZ | S | Z | SS | ZZ |
| 6 | 23 | 15 | 55 | 68,5 | 33 | 20 | 65 | 78,5 | 43 | 25 | 75 | 88,5 | 53 | 30 | 85 | 98,5 | 63 | 35 | 95 | 108,5 |

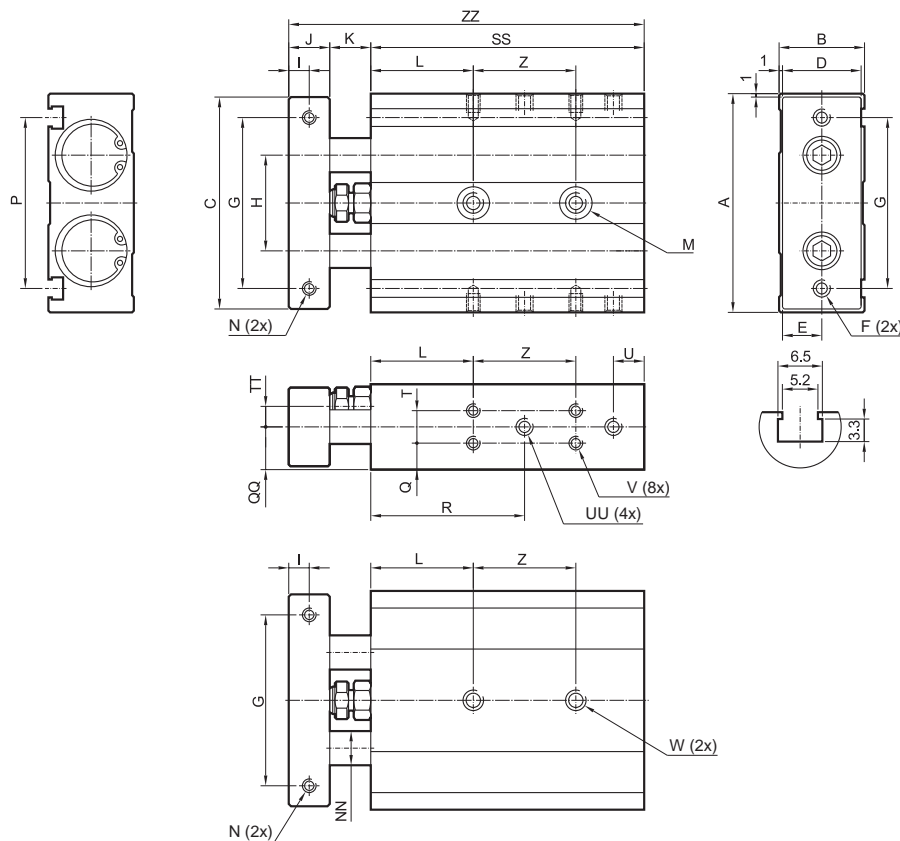


| Ø mm | A | B | C | D | E | F | G | H | I | J | L | M | N | NN | P | Q | QQ | R | W | V |
|------|----|----|----|----|-----|----|----|----|---|----|----|-----------------------|------------|-----|----|-----|----|----|------------|--------------|
| 10 | 46 | 17 | 44 | 15 | 7.5 | M4 | 35 | 19 | 4 | 8 | 20 | Ø 3.4 - Ø 6 depth 3.3 | M3 depth 5 | Ø 6 | 32 | 8.5 | 7 | 30 | M4 depth 8 | M3 depth 4.5 |
| 16 | 58 | 20 | 56 | 18 | 9 | M5 | 45 | 24 | 5 | 10 | 30 | Ø 4.3 - Ø 8 depth 4.4 | M4 depth 6 | Ø 8 | 47 | 10 | 10 | 36 | M5 depth 9 | M4 depth 5 |

| Ø mm | UU | Stroke = 10 | | | Stroke = 15 | | | Stroke = 20 | | | Stroke = 25 | | | Stroke = 30 | | | Stroke = 35 | | | Stroke = 40 | | | Stroke = 45 | | | Stroke = 50 | | |
|------|--------------|-------------|----|----|-------------|----|----|-------------|----|----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|
| | | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ |
| 10 | M5 depth 4.5 | 65 | 30 | 82 | 70 | 30 | 87 | 75 | 30 | 92 | 80 | 30 | 97 | 85 | 40 | 102 | 90 | 40 | 107 | 95 | 40 | 112 | 100 | 40 | 117 | 105 | 40 | 122 |
| 16 | M5 depth 5.5 | 70 | 25 | 89 | 75 | 25 | 94 | 80 | 25 | 99 | 85 | 25 | 104 | 90 | 35 | 109 | 95 | 35 | 114 | 100 | 35 | 119 | 105 | 35 | 124 | 110 | 35 | 129 |

| Ø mm | Stroke = 60 | | | Stroke = 70 | | | Stroke = 75 | | | Stroke = 80 | | | Stroke = 90 | | | Stroke = 100 | | | Stroke = 125 | | | Stroke = 150 | | |
|------|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|--------------|----|-----|--------------|----|-----|--------------|----|-----|
| | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 120 | 45 | 139 | 130 | 45 | 149 | 135 | 45 | 154 | 140 | 45 | 159 | 150 | 55 | 169 | 160 | 55 | 179 | 185 | 80 | 204 | 210 | 80 | 229 |

Type: **GSB - GSS**
(Bore $\varnothing 20 - \varnothing 32$)



| \varnothing mm | A | B | C | D | E | F | G | H | I | J | K | L | M | N | NN (\varnothing) | P | Q | QQ | R | T | TT | U |
|------------------|----|----|----|----|------|----|----|----|---|----|----|----|---|----------------|----------------------|----|------|------|------|-----|----|----|
| 20 | 64 | 25 | 62 | 23 | 11.5 | M5 | 50 | 28 | 6 | 12 | 12 | 30 | $\varnothing 5.5 - \varnothing 9.5$ depth 5.4 | M4 depth 7.5dp | 10 | 50 | 7.75 | 12.5 | 45 | 9.5 | 6 | 9 |
| 25 | 80 | 30 | 78 | 28 | 14 | M6 | 60 | 35 | 6 | 12 | 12 | 30 | $\varnothing 6.8 - \varnothing 11$ depth 6.3 | M5 depth 7.5dp | 12 | 60 | 8.5 | 15 | 44.5 | 13 | 9 | 10 |
| 32 | 98 | 38 | 96 | 36 | 18 | M6 | 75 | 44 | 8 | 16 | 14 | 30 | $\varnothing 6.8 - \varnothing 11$ depth 6.3 | M5 depth 10dp | 16 | 74 | 9 | 19 | 52.5 | 20 | 11 | 12 |

| \varnothing mm | UU | V | W | Stroke = 10 | | | Stroke = 15 | | | Stroke = 20 | | | Stroke = 25 | | | Stroke = 30 | | | Stroke = 35 | | | Stroke = 40 | | |
|------------------|---------|--------------|---------------|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|
| | | | | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ |
| 20 | M5 | M4 depth 5.5 | M6 depth 10dp | 80 | 30 | 104 | 85 | 30 | 109 | 90 | 30 | 114 | 95 | 30 | 119 | 100 | 40 | 124 | 105 | 40 | 129 | 110 | 40 | 134 |
| 25 | 1/8 gas | M5 depth 7.5 | M8 depth 16dp | 82 | 30 | 106 | 87 | 30 | 111 | 92 | 30 | 116 | 97 | 30 | 121 | 102 | 40 | 126 | 107 | 40 | 131 | 112 | 40 | 136 |
| 32 | 1/8 gas | M5 depth 7.5 | M8 depth 16dp | 92 | 40 | 122 | 97 | 40 | 127 | 102 | 40 | 132 | 107 | 40 | 137 | 112 | 50 | 142 | 117 | 50 | 147 | 122 | 50 | 152 |

| \varnothing mm | Stroke = 45 | | | Stroke = 50 | | | Stroke = 60 | | | Stroke = 70 | | | Stroke = 75 | | | Stroke = 80 | | | Stroke = 90 | | | Stroke = 100 | | | Stroke = 125 | | | Stroke = 150 | | |
|------------------|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|-------------|----|-----|--------------|----|-----|--------------|----|-----|--------------|----|-----|
| | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ | SS | Z | ZZ |
| 20 | 115 | 40 | 139 | 120 | 40 | 144 | 130 | 60 | 154 | 140 | 60 | 164 | 145 | 60 | 169 | 150 | 60 | 174 | 160 | 60 | 184 | 170 | 60 | 194 | 195 | 85 | 219 | 220 | 85 | 244 |
| 25 | 117 | 40 | 141 | 122 | 40 | 146 | 132 | 60 | 156 | 142 | 60 | 166 | 147 | 60 | 171 | 152 | 60 | 176 | 162 | 60 | 186 | 172 | 60 | 196 | 197 | 85 | 221 | 222 | 85 | 246 |
| 32 | 127 | 50 | 157 | 132 | 50 | 162 | 142 | 70 | 172 | 152 | 70 | 182 | 157 | 70 | 187 | 162 | 70 | 192 | 172 | 70 | 202 | 182 | 70 | 212 | 207 | 95 | 237 | 232 | 95 | 262 |