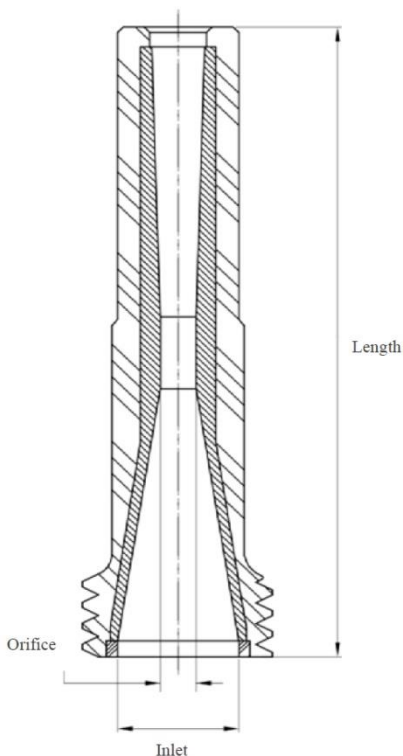


Blasting Nozzles

PRODUCT CATALOG

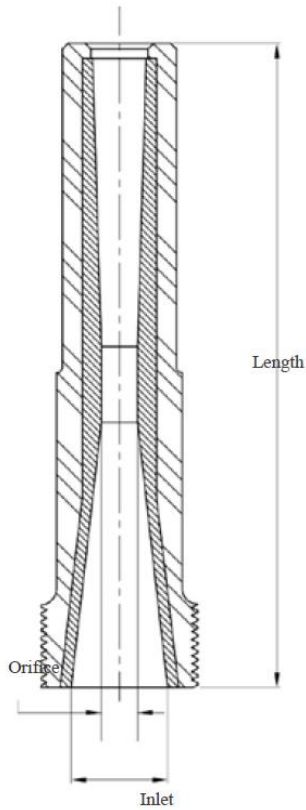


LONG VENTURI NOZZLES



Nozzle Type: Long Venturi Nozzles
Description: Aluminium Jacket / Tungsten Carbide Liner
Thread Style: 2"-4.5TPI-UNC

| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724000 | CNTL32-3/50 | 32 | 4,8 | 140 |
| 724001 | CNTL32-4/50 | 32 | 6,4 | 140 |
| 724002 | CNTL32-5/50 | 32 | 7,9 | 150 |
| 724003 | CNTL32-6/50 | 32 | 9,5 | 175 |
| 724004 | CNTL32-7/50 | 32 | 11,1 | 205 |
| 724005 | CNTL32-8/50 | 32 | 12,7 | 235 |
| 724006 | CNTL32-10/50 | 32 | 15,9 | 235 |
| 724007 | CNTL32-12/50 | 32 | 19 | 235 |
| 724010 | CNTL-3/50 | 25 | 4,8 | 140 |
| 724011 | CNTL-4/50 | 25 | 6,4 | 140 |
| 724012 | CNTL-5/50 | 25 | 7,9 | 150 |
| 724013 | CNTL-6/50 | 25 | 9,5 | 175 |
| 724014 | CNTL-7/50 | 25 | 11,1 | 205 |
| 724015 | CNTL-8/50 | 25 | 12,7 | 235 |

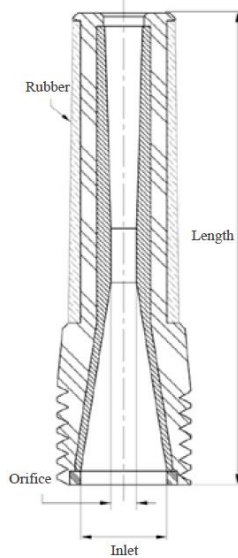


Nozzle Type: Long Venturi Nozzles

Description: Aluminium Jacket / Tungsten Carbide Liner

Thread Style: 1-1/4"-11.5TPI-NPSM

| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724020 | CNTL32-3 | 32 | 4,8 | 140 |
| 724021 | CNTL32-4 | 32 | 6,4 | 140 |
| 724022 | CNTL32-5 | 32 | 7,9 | 150 |
| 724023 | CNTL32-6 | 32 | 9,5 | 175 |
| 724024 | CNTL32-7 | 32 | 11,1 | 205 |
| 724025 | CNTL32-8 | 32 | 12,7 | 235 |
| 724026 | CNTL32-10 | 32 | 15,9 | 235 |
| 724027 | CNTL32-12 | 32 | 19 | 235 |
| 724030 | CNTL25-3 | 25 | 4,8 | 140 |
| 724031 | CNTL25-4 | 25 | 6,4 | 140 |
| 724032 | CNT25L-5 | 25 | 7,9 | 150 |
| 724033 | CNTL25-6 | 25 | 9,5 | 175 |
| 724034 | CNTL25-7 | 25 | 11,1 | 205 |
| 724035 | CNTL25-8 | 25 | 12,7 | 235 |

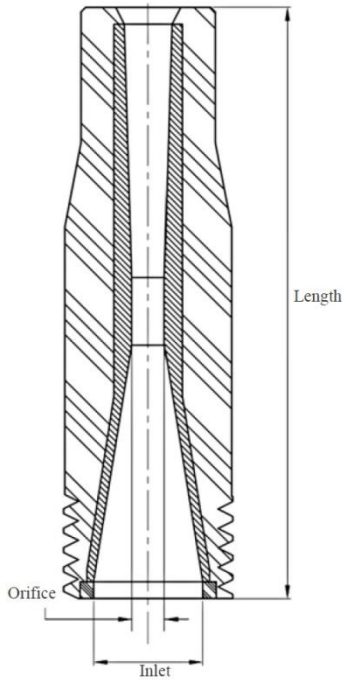


Nozzle Type: Long Venturi Nozzles

Description: Aluminium Jacket / Rubber Sleeve / Tungsten Carbide Liner

Thread Style: 2"-4.5TPI-UNC

| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724184 | CNJL32-3/50 | 32 | 4,8 | 140 |
| 724185 | CNJL32-4/50 | 32 | 6,4 | 140 |
| 724186 | CNJL32-5/50 | 32 | 7,9 | 150 |
| 724187 | CNJL32-6/50 | 32 | 9,5 | 175 |
| 724188 | CNJL32-7/50 | 32 | 11,1 | 205 |
| 724189 | CNJL32-8/50 | 32 | 12,7 | 235 |
| 724190 | CNJL32-10/50 | 32 | 15,9 | 235 |
| 724191 | CNJL32-12/50 | 32 | 19 | 235 |



Nozzle Type: Long Venturi Nozzles

Description: Hi-Tec Nylon / Tungsten Carbide Liner

Thread Style: 2"-4.5TPI-UNC

| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 754000 | CNTLN32-3/50 | 32 | 4,8 | 140 |
| 754001 | CNTLN32-4/50 | 32 | 6,4 | 140 |
| 754002 | CNTLN32-5/50 | 32 | 7,9 | 150 |
| 754003 | CNTLN32-6/50 | 32 | 9,5 | 175 |
| 754004 | CNTLN32-7/50 | 32 | 11,1 | 205 |
| 754005 | CNTLN32-8/50 | 32 | 12,7 | 235 |
| 754010 | CNTLN-3/50 | 25 | 4,8 | 140 |
| 754011 | CNTLN-4/50 | 25 | 6,4 | 140 |
| 754012 | CNTLN-5/50 | 25 | 7,9 | 140 |
| 754013 | CNTLN-6/50 | 25 | 9,5 | 140 |
| 754014 | CNTLN-7/50 | 25 | 11,1 | 150 |
| 754015 | CNTLN-8/50 | 25 | 12,7 | 175 |

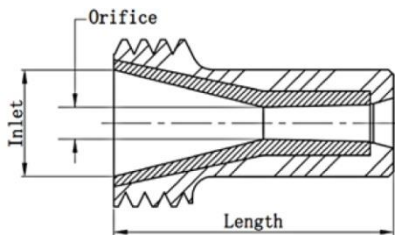


SHORT VENTURI NOZZLES

Nozzle Type: Short Venturi Nozzles

Description: Aluminium Jacket / Tungsten Carbide Liner

Thread Style: 2"-4.5TPI-UNC

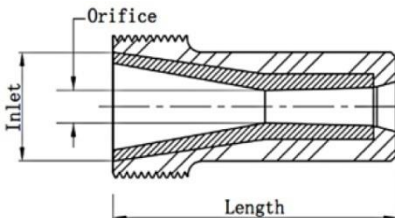


| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724041 | CNTS32-4/50 | 32 | 6,4 | 84 |
| 724042 | CNTS32-5/50 | 32 | 7,9 | 84 |
| 724043 | CNTS32-6/50 | 32 | 9,5 | 84 |
| 724044 | CNTS32-7/50 | 32 | 11,1 | 84 |
| 724045 | CNTS32-8/50 | 32 | 12,7 | 84 |
| 724050 | CNTS25-3/50 | 25 | 4,8 | 84 |
| 724051 | CNTS25-4/50 | 25 | 6,4 | 84 |
| 724052 | CNTS25-5/50 | 25 | 7,9 | 84 |
| 724053 | CNTS25-6/50 | 25 | 9,5 | 84 |
| 724054 | CNTS25-7/50 | 25 | 11,1 | 84 |
| 724055 | CNTS25-8/50 | 25 | 12,7 | 84 |

Nozzle Type: Short Venturi Nozzles

Description: Aluminium Jacket / Tungsten Carbide Liner

Thread Style: 1-1/4"-11.5TPI-NPSM



| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724061 | CNTS32-4 | 32 | 6,4 | 84 |
| 724062 | CNTS32-5 | 32 | 7,9 | 84 |
| 724063 | CNTS32-6 | 32 | 9,5 | 84 |
| 724064 | CNTS32-7 | 32 | 11,1 | 84 |
| 724065 | CNTS32-8 | 32 | 12,7 | 84 |
| 724070 | CNTS-3 | 25 | 4,8 | 84 |
| 724071 | CNTS-4 | 25 | 6,4 | 84 |
| 724072 | CNTS-5 | 25 | 7,9 | 84 |
| 724073 | CNTS-6 | 25 | 9,5 | 84 |
| 724074 | CNTS-7 | 25 | 11,1 | 84 |
| 724075 | CNTS-8 | 25 | 12,7 | 84 |



ANGLE NOZZLES

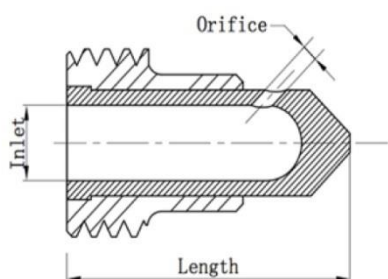
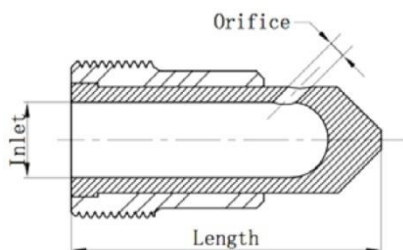
Nozzle Type: Angle Nozzles

Description: Aluminium Jacket / Tungsten Carbide Liner / 45 Degree

Thread Style: 2"-4.5TPI-UNC

» Fine Thread 1-1/4"-11.5TPI-NSPM is also available

» Angle nozzles with 90 degrees orifices are also available.



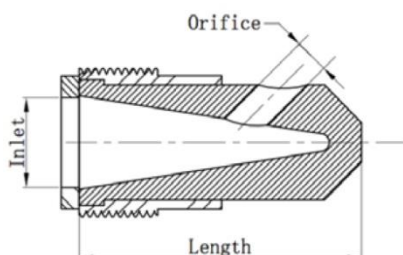
| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724090 | CNAM 2X1/50 | 20 | 3,2x1 | 82 |
| 724091 | CNAM 2X2/50 | 20 | 3,2x2 | 82 |
| 724092 | CNAM 2X3/50 | 20 | 3,2x3 | 82 |
| 724093 | CNAM 3X1/50 | 20 | 4,8x1 | 84 |
| 724094 | CNAM 3X2/50 | 20 | 4,8x2 | 82 |
| 724095 | CNAM 3X3/50 | 20 | 4,8x3 | 82 |
| 724096 | CNAM 4X1/50 | 20 | 6,4x1 | 82 |
| 724097 | CNAM 4X2/50 | 20 | 6,4x2 | 82 |
| 724098 | CNAM 4X3/50 | 20 | 6,4x3 | 82 |
| 724099 | CNAM 5X1/50 | 20 | 8,0x1 | 82 |
| 724100 | CNAM 5X2/50 | 20 | 8,0x2 | 82 |
| 724101 | CNAM 5X3/50 | 20 | 8,0x3 | 82 |
| 724102 | CNAM 6X1/50 | 20 | 9,5x1 | 82 |
| 724103 | CNAM 6X2/50 | 20 | 9,5x2 | 82 |
| 724104 | CNAM 6X3/50 | 20 | 9,5x3 | 82 |

Nozzle Type: Angle Nozzles

Description: Brass Jacket / Tungsten Carbide Liner / 45 Degree

Thread Style: 2"-4.5TPI-UNC

» Fine Thread 1-1/4"-11.5TPI-NSPM is also available



| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 737041 | CNAML 4X1/50 | 26 | 6.4X1 | 79 |
| 737043 | CNAML 4X3/50 | 26 | 6.4X3 | 79 |
| 737051 | CNAML 5X1/50 | 26 | 8.0X1 | 79 |
| 737053 | CNAML 5X3/50 | 26 | 8.0X3 | 79 |
| 737061 | CNAML 6X1/50 | 26 | 9.5X1 | 79 |
| 737063 | CNAML 6X3/50 | 26 | 9.5X3 | 79 |

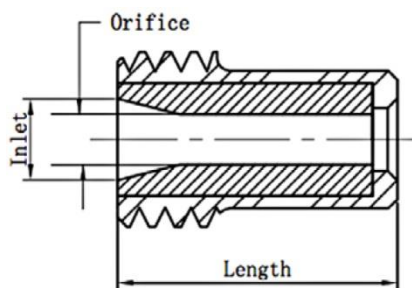


LIGHT DUTY NOZZLE

Nozzle Type: Light Duty Nozzle

Description: Aluminium Jacket / Tungsten Carbide Liner

Thread Style: 3/4"-7TPI-NPSM

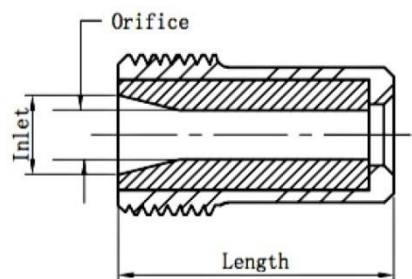


| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724130 | CNTC-2 | 13 | 3 | 45 |
| 724131 | CNTC-3 | 13 | 4,8 | 45 |
| 724132 | CNTC-4 | 13 | 6,4 | 45 |
| 724133 | CNTC-5 | 13 | 7,9 | 45 |
| 724134 | CNTC-6 | 13 | 9,5 | 45 |
| 724135 | CNTC-8 | 13 | 12,7 | 45 |

Nozzle Type: Light Duty Nozzle

Description: Aluminium Jacket / Tungsten Carbide Liner

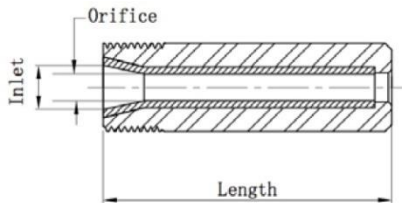
Thread Style: 3/4"-14TPI-NPSM



| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724140 | CNT-2 | 13 | 3 | 45 |
| 724141 | CNT-3 | 13 | 4,8 | 45 |
| 724142 | CNT-4 | 13 | 6,4 | 45 |
| 724143 | CNT-5 | 13 | 7,9 | 45 |
| 724144 | CNT-6 | 13 | 9,5 | 45 |
| 724145 | CNT-8 | 13 | 12,7 | 45 |



SPIN BLAST NOZZLE

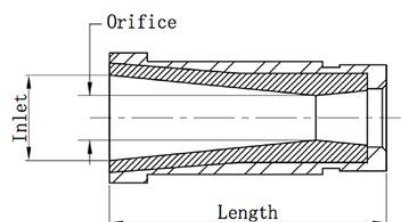


Nozzle Type: Spin Blast Nozzle
Description: Aluminium Jacket / Tungsten Carbide Liner
Thread Style: 3/4"-14TPI-NPSM

| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724170 | CNSB-13 | 13 | 6,4 | 55 |
| 724171 | CNSB-14 | 13 | 7,9 | 55 |
| 724172 | CNSB-15 | 13 | 7,9 | 85 |
| 724173 | CNSB-16 | 13 | 9,5 | 55 |
| 724174 | CNSB-17 | 13 | 9,5 | 108 |



HOLLOW BLAST NOZZLES



Nozzle Type: Hollow Blast Nozzles
Description: Aluminium Jacket / Tungsten Carbide Liner

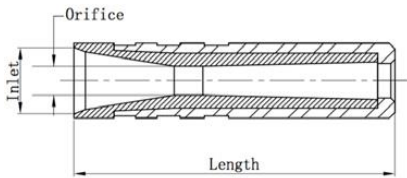
| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724153 | CNFL32-6 | 32 | 9,5 | 170 |
| 724154 | CNFL32-7 | 32 | 11,1 | 200 |
| 724155 | CNFL32-8 | 32 | 12,7 | 230 |



STICKUP NOZZLE

Nozzle Type: Stickup Nozzle

Description: Aluminium Jacket / Tungsten Carbide Liner



| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724180 | CNHT-5/25 | 20 | 7,9 | 112 |
| 724181 | CNHT-6/25 | 20 | 10 | 112 |
| 724182 | CNHT-5/32 | 24 | 8 | 112 |
| 724183 | CNHT-6/32 | 24 | 7,9 | 112 |
| 724179 | CNHT-8/32 | 24 | 12,7 | 112 |

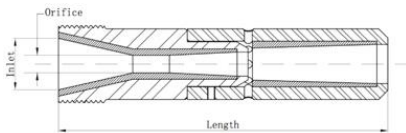


DOUBLE VENTURI NOZZLES

Nozzle Type: Double Venturi Nozzles

Description: Aluminium Jacket / Steel Barrel / Tungsten Carbide Liner

Thread Style: 1-1/4"-11.5TPI-NPSM

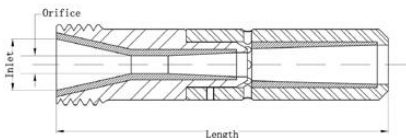


| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724200 | CNDV25-4 | 25 | 6,4 | 159 |
| 724201 | CNDV25-5 | 25 | 7,9 | 173 |
| 724202 | CNDV25-6 | 25 | 9,5 | 189 |
| 724203 | CNDV25-7 | 25 | 11,1 | 228 |
| 724204 | CNDV25-8 | 25 | 12,7 | 247 |

Nozzle Type: Double Venturi Nozzles

Description: Aluminium Jacket / Steel Barrel / Tungsten Carbide Liner

Thread Style: 2"-4.5TPI-UNC



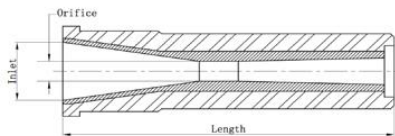
| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724210 | CNDV25-4/50 | 25 | 6.4 | 159 |
| 724211 | CNDV25-5/50 | 25 | 7.9 | 173 |
| 724212 | CNDV25-6/50 | 25 | 9.5 | 189 |
| 724213 | CNDV25-7/50 | 25 | 11.1 | 228 |
| 724214 | CNDV25-8/50 | 25 | 12.7 | 247 |



FLANGED NOZZLES

Nozzle Type: Flanged Nozzles

Description: Aluminium Jacket / Tungsten Carbide Liner



| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 724153 | CNFL32-6 | 32 | 9,5 | 170 |
| 724154 | CNFL32-7 | 32 | 11,1 | 200 |
| 724155 | CNFL32-8 | 32 | 12,7 | 230 |

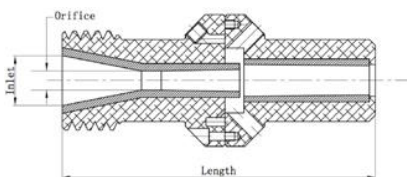


WATER JET NOZZLES

Nozzle Type: Water Jet Nozzles

Description: Aluminium Jacket / Tungsten Carbide Liner

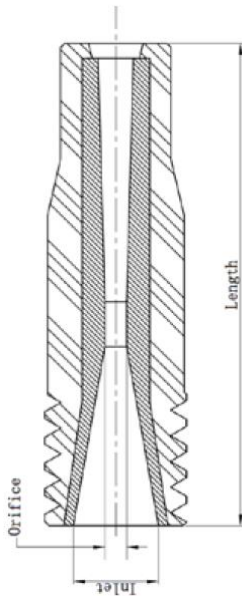
Thread Style: 2"-4.5TPI-UNC



| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 728006 | CNWJ-4/50 | 25 | 6,4 | 149 |
| 728007 | CNWJ-5/50 | 25 | 7,9 | 158 |
| 728008 | CNWJ-6/50 | 25 | 9,5 | 171 |
| 728010 | CNWJ-8/50 | 25 | 12 | 227 |



SILICON CARBIDE NOZZLES



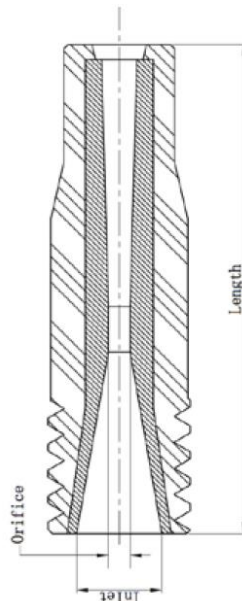
Nozzle Type: Silicon Carbide Nozzles

Description: Nylon Jacket / Silicon Carbide Liner

Thread Style: 2"-4.5TPI-UNC

» Other colour nylon jackets are also available.

| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 755001 | CNSL25-3/50 | 25.4 | 4.8 | 112 |
| 755002 | CNSL25-4/50 | 25.4 | 6.35 | 140 |
| 755003 | CNSL25-5/50 | 25.4 | 7.95 | 150 |
| 755004 | CNSL25-6/50 | 25.4 | 9.53 | 175 |
| 755005 | CNSL25-7/50 | 25.4 | 11.13 | 206 |
| 755006 | CNSL25-8/50 | 25.4 | 12.7 | 235 |
| 755010 | CNSL32-5/50 | 31.75 | 7.95 | 150 |
| 755011 | CNSL32-6/50 | 31.75 | 9.53 | 175 |
| 755012 | CNSL32-7/50 | 31.75 | 11.13 | 206 |
| 755013 | CNSL32-8/50 | 31.75 | 12.7 | 235 |



Nozzle Type: Silicon Carbide Nozzles

Description: Nylon Jacket / Silicon Carbide Liner

Thread Style: 1.25"-11.5TPI-NPSM

» Other colour nylon jackets are also available.

| Part Number | Model Number | Inlet (mm) | Orifice (mm) | Length (mm) |
|-------------|--------------|------------|--------------|-------------|
| 794001 | CNSL25-3 | 25.4 | 4.8 | 112 |
| 794002 | CNSL25-4 | 25.4 | 6.35 | 140 |
| 794003 | CNSL25-5 | 25.4 | 7.95 | 150 |
| 794004 | CNSL25-6 | 25.4 | 9.53 | 175 |
| 794005 | CNSL25-7 | 25.4 | 11.13 | 206 |
| 794006 | CNSL25-8 | 25.4 | 12.7 | 235 |
| 794010 | CNSL32-5 | 31.75 | 7.95 | 150 |
| 794011 | CNSL32-6 | 31.75 | 9.53 | 175 |
| 794012 | CNSL32-7 | 31.75 | 11.13 | 206 |
| 794013 | CNSL32-8 | 31.75 | 12.7 | 235 |

TUNGSTEN CARBIDE STANDARD GRADES

Cobalt Binder Grades

| Grade | Binder Content | Density (g/cm ³) | Hardness (HRA) | TRS (≥N/mm ²) | Grain Size | Remark |
|-------|----------------|------------------------------|----------------|---------------------------|------------|--------------|
| YG6 | 6% Co | 14,8 | 89,5 | 2100 | Medium | |
| YG6X | 6% Co | 14,9 | 90,5 | 2150 | Fine | |
| YG6H | 6% Co | 14,9 | 91 | 2200 | Fine | HIP Sintered |
| YG8 | 8% Co | 14,6 | 89 | 2300 | Medium | |
| YG12 | 12% Co | 14,25 | 88 | 2650 | Medium | |
| YG15 | 15% Co | 13,9 | 87 | 2850 | Medium | |
| YG20 | 20% Co | 13,5 | 84,5 | 3050 | Medium | |

Nickel Binder Grades

| Grade | Binder Content | Density (g/cm ³) | Hardness (HRA) | TRS (≥N/mm ²) | Grain Size | Remark |
|-------|----------------|------------------------------|----------------|---------------------------|------------|--------------|
| YN6 | 6% Ni | 14,75 | 89,5 | 1750 | Medium | |
| YN6X | 6% Ni | 14,8 | 90,5 | 1850 | Fine | |
| YN6H | 6% Ni | 14,85 | 91 | 1900 | Fine | HIP Sintered |
| YN8 | 8% Ni | 14,55 | 88,5 | 1950 | Medium | |
| YN8X | 8% Ni | 14,6 | 89 | 2050 | Fine | |
| YN8H | 8% Ni | 14,65 | 89 | 2100 | Fine | HIP Sintered |
| YN10 | 10% Ni | 14,35 | 87,5 | 2150 | Medium | |
| YN10X | 10% Ni | 14,4 | 88 | 2200 | Fine | |
| YN10H | 10% Ni | 14,45 | 88 | 2250 | Fine | HIP Sintered |

Remark

- 1N/mm²=145.038PSI
- Special grades to meet specific customer requirements are also available.

SILICON CARBIDE MATERIAL SPECIFICATION

Sintered Silicon Carbide

| Item | Unit | SSIC |
|-------------------------------|-------------------------------|-------------------------------|
| Purity | % | ≥ 99 |
| Density | g/cm ³ | 3,10 ~ 3,15 |
| Hardness | HRA | ≥ 94,0 |
| Indicated Porosity | % | < 0,2 |
| Compressive Strength | MPa | ≥ 2200 |
| Flexural Strength | MPa | ≥ 400 |
| Elastic Modulus | GPa | 400 |
| Thermal Conductivity | W/m · k | 90 ~ 110 |
| Maximum Temperature | C° | 1600 |
| Coefficient of Heat Expansion | 10-6 · 1/C° | 4 |
| Sintering Type | Pressureless Sintering (SSIC) | Pressureless Sintering (SSIC) |

Reaction Silicon Carbide

| Item | Unit | SSIC |
|-------------------------------|-------------------|----------|
| Purity | % | ≥ 90 |
| Free Silicon | % | < 10 |
| Density | g/cm ³ | ≥ 3,03 |
| Hardness | HRA | ≥ 92,0 |
| Indicated Porosity | % | < 0,2 |
| Compressive Strength | MPa | ≥ 2000 |
| Flexural Strength | MPa | ≥ 350 |
| Elastic Modulus | GPa | 350 |
| Thermal Conductivity | W/m · k | 50 ~ 110 |
| Maximum Temperature | C° | 1000 |
| Coefficient of Heat Expansion | 10-6 · 1/C° | 4 |

Remark

- Other silicon carbide special grades to meet specific customer requirements are also available



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