Technical Data Sheet

Tungsten Carbide

Aluminium Jacketed Nozzles

Note: Read and follow the Blastline Blast machine operations manual and provide proper training for all users of the device in order to achieve a safe and effective blasting operation.

Description

A blast nozzle accelerates the air and abrasive as the mixture exits the end of the hose. The length of the nozzle's inlet determines the pattern and velocity of the abrasive exiting the nozzle. The composition of the liner material determines its durability.

Advantages

- Rugged and durable aluminum jacket.
- Tungsten carbide is the most rugged and durable liner material and provides the best value.
- Expected wear-life when blasting with expendable abrasives is approximately 300 hours.
- Nozzles have large contractor threads, which eliminate galling or binding of the threads in the holder.

Specifications

Entry diameter	1-¼″
Liner material	Tungsten carbide
jacket material	Aluminum

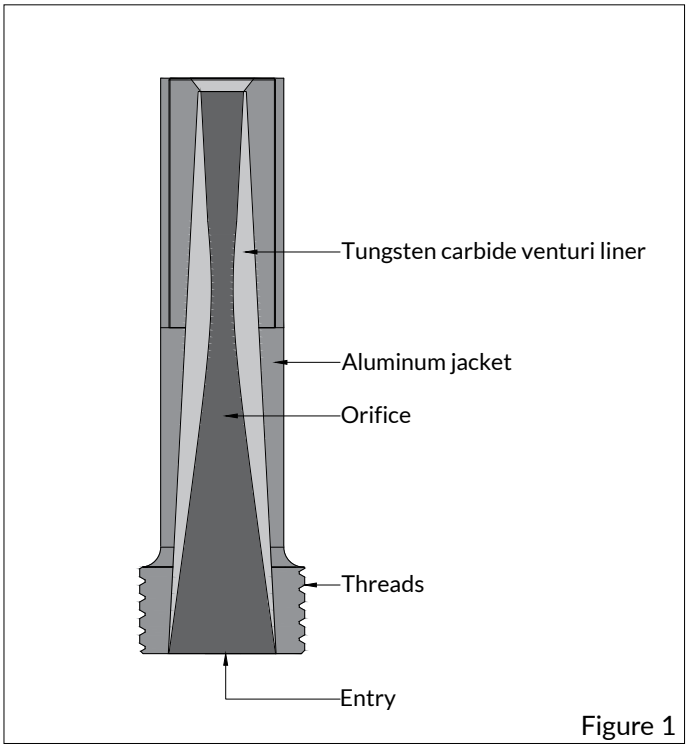

Figure 1

Models

Model	Part number	Bore size	Length	Entry diameter
BL-TA-3/50	724010	4.8mm	140mm	25mm
BL-TA-4/50	724011	6.35mm	140mm	25mm
BL-TA-5/50	724012	8.0mm	150mm	25mm
BL-TA-6/50	724013	9.5mm	175mm	25mm
BL-TA-7/50	724014	11.0mm	205mm	25mm
BL-TA-8/50	724015	12.5mm	12.5mm	25mm

Compressed air requirements for various nozzles

Nozzle orifice	Pressure (PSI) (bar)	50 3.5	60 4.2	70 4.9	80 5.6	90 6.3	100 7	125 8.5
No: 3 3⁄16″ 5mm	Air volume CFM m^3/min abrasive kg/hr	26 0.73 85	30 0.84 97	33 0.92 111	38 1.06 123	41 1.15 136	45 1.26 136	55 1.54 180
No: 4 ¼″ 6mm	Air volume CFM m^3/min abrasive kg/hr	47 1.31 152	54 1.51 178	61 1.71 200	68 1.9 231	74 2.08 254	81 2.27 280	98 2.75 336
No: 5 5⁄16″ 8mm	Air volume CFM m^3/min abrasive kg/hr	80 2.16 255	90 2.5 302	100 2.83 342	115 3.16 380	125 3.53 420	140 3.84 460	170 4.71 552
No: 6 ⅜″ 9.5mm	Air volume CFM m^3/min abrasive kg/hr	110 3.02 378	125 3.53 433	145 4 490	160 4.5 544	175 4.85 596	200 5.5 653	235 6.64 784
No: 7 7⁄16″ 11mm	Air volume CFM m^3/min abrasive kg/hr	150 4.12 502	170 4.76 585	200 5.44 655	215 6.09 744	240 6.73 820	255 7.11 896	315 8.8 1075
No: 8 ½″ 11mm	Air volume CFM m^3/min abrasive kg/hr	200 5.46 657	225 6.28 756	250 7.06 856	275 7.85 951	300 8.85 1050	340 9.46 1148	410 11.46 1378

* Abrasive consumption is based on material with a density of 1.5kg per liter
1 bar = 14 PSI 1 m^3/m = 35 CFM

Blastline is committed to continous product improvement. Specifications are subject to change without notice.

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