

# Martin® Tornado Air Cannon

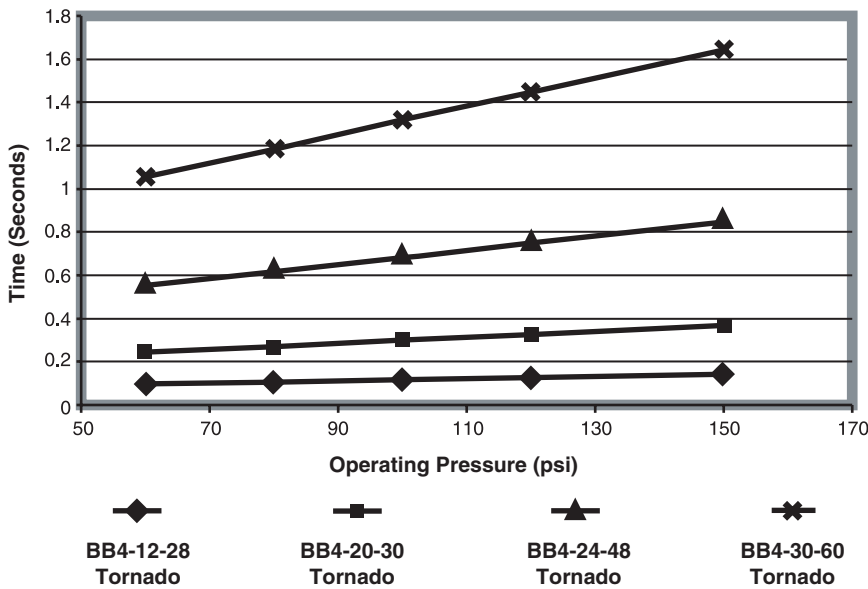


4-INCH VALVE

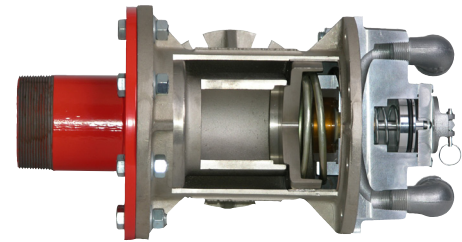
The [Martin® Tornado Air Cannon](#) produces better material flow with greater force, faster cycling, and improved safety. The Martin® Tornado Air Cannon fires when the exhaust valve opens in response to a positive surge of air sent by a tripped solenoid valve. This positive-acting valve amplifies the discharge force, up to 20% more force than a standard Martin® XHV Air Cannon of the same size.

## PERFORMANCE DATA

### Discharge Time



Martin® Tornado Exhaust Valve

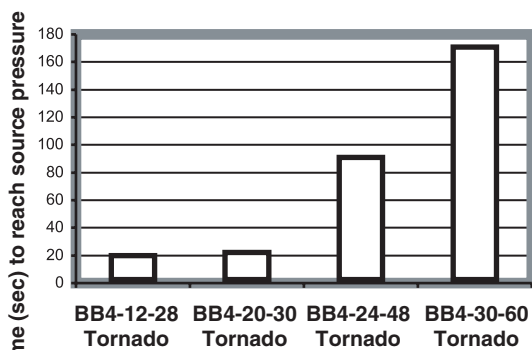


Unit shown as cutaway to show internal parts.

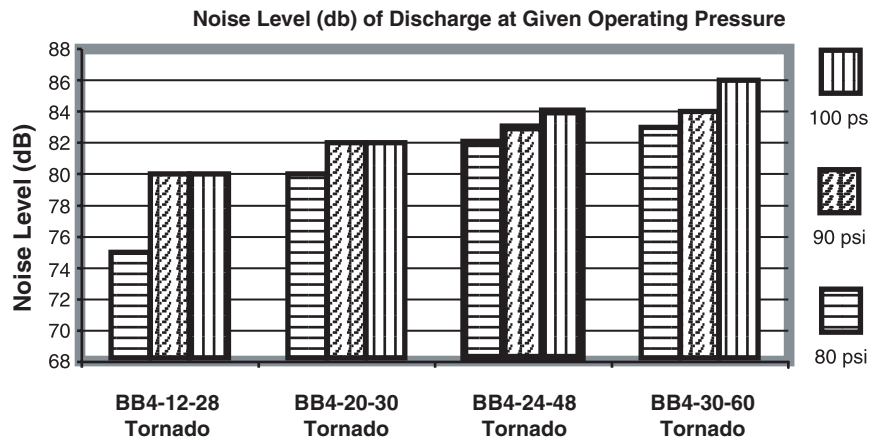
### BENEFITS

- Increased Safety
- Increased Force Output
- Suitable for High Temperatures
- Easy Installation and Maintenance
- Cycle Guarantee
- Faster Fill Times

### Tank Fill Time\*



### Noise Level



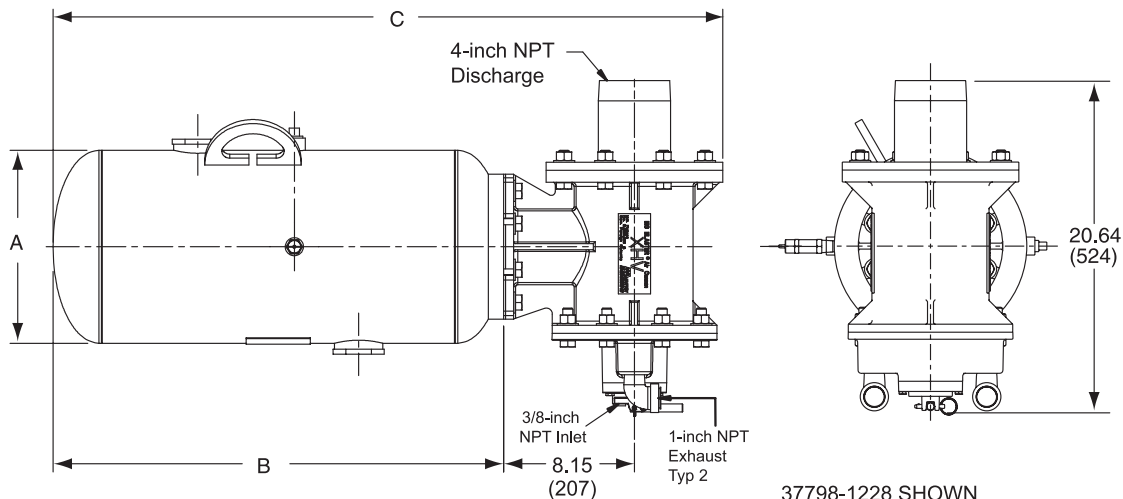
\* Data based on laboratory testing. Fill times may vary depending on air supply characteristics.

# TECHNICAL DATA SHEET

## DIMENSIONS

NPT—National Pipe Thread

Model	Assembly P/N	Dimensions				Ship WT. lbs (kg)			
		A		B			C		
BB4-12-28	37798-1228	12	(305)	28.00	(711)	41.65	(1058)	113	(51.25)
BB4-20-30	37798-2030	20	(508)	29.59	(762)	43.24	(1098)	151	(68.5)
BB4-24-48	37798-2448	24	(610)	48.00	(1219)	61.65	(1566)	211	(95.7)
BB4-30-60	37798-3060	30	(762)	60.00	(1524)	73.65	(1871)	312	(141.5)



37798-1228 SHOWN

## AIR VOLUME IN FT<sup>3</sup> (LITERS) FREE AIR

Air Pressure PSI	1228 ft <sup>3</sup> (L)	2030 ft <sup>3</sup> (L)	2448 ft <sup>3</sup> (L)	3060 ft <sup>3</sup> (L)
0	1.7 (47)	4.8 (135)	11.2 (319)	22.0 (622)
40	6.2 (174)	17.7 (501)	41.9 (1185)	81.8 (2315)
50	7.3 (206)	20.9 (593)	49.5 (1402)	96.7 (2738)
60	8.4 (238)	24.2 (684)	57.2 (1619)	111.6 (3161)
70	9.5 (270)	27.4 (776)	64.8 (1835)	126.6 (3585)
75	10.1 (286)	29.0 (822)	68.6 (2052)	141.5 (4008)
85	11.2 (317)	32.2 (913)	76.3 (2160)	149.0 (4219)
90	11.8 (333)	33.9 (959)	80.1 (2269)	156.5 (4431)
95	12.3 (349)	35.5 (1005)	83.9 (2377)	164.0 (4643)
100	12.9 (365)	37.1 (1051)	87.8 (2485)	171.4 (4854)
110	14.0 (397)	40.3 (1142)	95.4 (2702)	186.4 (5277)
120	15.1 (429)	43.6 (1234)	103.1 (2919)	201.3 (5701)

## NOTES

Tanks for Martin® Air Cannons supplied by Martin Engineering are manufactured to ASME Code Rules, Section VIII, Division 1. Tanks are National Board registered and pressure vessel quality (PVQ).

For further information, contact Martin Engineering at 1-800-544-2947 or visit our website at [www.martin-eng.com](http://www.martin-eng.com).



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= ISO 9001:2008 =**

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