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# SDI-5

This versatile dual-hose all pneumatic blasting system utilizes dry ice block, pellets, or nuggets to create a blast stream at blast pressures ranging from 40 to 250 psi (2.8 to 17.2 bar).

120 lb (54.5 kg) hopper

Hose hanging devices keep hoses safely stored on machine

Variable dry ice pellet feed rate of 1 to 6 lbs (0.5 to 2.7 kg) per minute

The dry ice blasting system includes one length each of dry ice blast and air hose, dry ice blasting applicator, and customer-specified nozzle.

Fork lift tubes ensure balance and safety when moving and lifting



## SPECIFICATIONS

Hopper capacity .....	up to 120 lbs / 54.5 kg capacity
Variable feed rate .....	1 to 6 lbs / 0.5 to 2.7 kg per min
Blast pressure range .....	40 to 250 psi / 2.8 to 17.2 bar
Weight.....	430 lbs / 195 kg
Size (L x W x H).....	37" x 24.5" x 45"
	94 cm x 62.2 cm x 114.3 cm
12-month warranty (extended warranty packages available)	

# Dual Hose Applicator

Lightweight, ergonomic design allows to blast comfort during long periods of times at blast pressures up to 125 psi (8.6 bar). Applicator can be used with dry ice pellets as well as sugar-sized granules produced from shaved block dry ice.

**Part #: 2E0406 (sold only as part of blast/air hose assembly)**



## Dual Hose Air and Blast Hose Assembly

Part #: 2E0406 - 15' (4.57 m) section 125 psi (8.62 bar)



### Compressed Air Hose

- Used to carry pressurized air from air source to blast unit.
- Includes swivel adapters.
- For each length of hose ordered, order one Whip Check! Part #: 2N0146-G1 - 25' (7.6 m) Section 1" (2.5 cm) ID 300 psi (20.7 bar)

# Variable Flow Aggressive Nozzles

Full pressure barrel blast nozzles in Black ABS or Aluminum.

Nozzles have 1 1/4" (3.18 cm) OD. Minimum required flow rates range from 70 to 240 SCFM (2 to 6.8 m<sup>3</sup>/min) at 25 to 125 psi (1.7 to 8.5 bar).



	Series 51	Series 53	Series 56	Series 63
3" (7.6 cm)	5E0938	5E0944	5E0950	5E0956
	5E0939	5E0945	5E0951	5E0957
5" (12.7 cm)	5E0940	5E0946	5E0952	5E0958
	5E0941	5E0947	5E0953	5E0959
8" (20.3 cm)	5E0942	5E0948	5E0954	5E0960
	5E0943	5E0949	5E0955	5E0961

First part number in series represents Black ABS, second number represents Aluminum

Extended Lengths available from 18" to 36" (45.7 cm to 91.4 cm) in Black ABS  
Part #: 5E0976-Length

## Choosing a Stinger for your nozzle (using combination chart below):

- Determine your desired blast pressure (i.e.: if you wish to blast at 90 psi (6.2 bar), choose an LF-85, MF-85, or HF-85 stinger, each with an operating range of 50 - 100 psi (3.4 - 6.8 bar).
- Based on the air flow rate your compressor can provide, choose a Low Flow, Medium Flow, or High Flow stinger. (For maximum cleaning aggression, choose the highest air flow available from your compressor).
- Once you have selected a stinger, examine the chart below to determine which nozzle series (above) is appropriate for that stinger.

EXAMPLE: If you wish to blast at 90 psi (6.2 bar) and your compressor can supply 160 SCFM (4.5 m<sup>3</sup>/min), you would choose an MF-85 stinger and a matching nozzle from Series 53.



STINGER-PSI		Desired Operating Range	Minimum Required Flow Rate	Stinger	51	53	56	63
Low Flow	LF-50	25 - 50 psi (1.7 - 3.4 bar)	70 SCFM (2.0 m <sup>3</sup> /min)	5E0962	◆			
	LF-85	50 - 100 psi (3.4 - 6.9 bar)	110 SCFM (3.1 m <sup>3</sup> /min)	5E0963	◆			
	LF-125	100 - 125 psi (6.9 - 8.6 bar)	160 SCFM (4.5 m <sup>3</sup> /min)	5E0964		◆		
Med. Flow	MF-50	25 - 50 psi (1.7 - 3.4 bar)	120 SCFM (3.4 m <sup>3</sup> /min)	5E0965	◆			
	MF-85	50 - 100 psi (3.4 - 6.9 bar)	150 SCFM (4.2 m <sup>3</sup> /min)	5E0966		◆		
	MF-125	100 - 125 psi (6.9 - 8.6 bar)	225 SCFM (6.4 m <sup>3</sup> /min)	5E0967			◆	
High Flow	HF-50	25 - 50 psi (1.7 - 3.4 bar)	125 SCFM (3.5 m <sup>3</sup> /min)	5E0968		◆		
	HF-85	50 - 100 psi (3.4 - 6.9 bar)	195 SCFM (5.5 m <sup>3</sup> /min)	5E0969			◆	
	HF-125	100 - 125 psi (6.9 - 8.6 bar)	240 SCFM (6.8 m <sup>3</sup> /min)	5E09670				◆

# Variable Flow Aggressive Nozzles



## 2.4" (6 cm) Blast swath

Length 15.5" (39.4 cm)  
Requires 85 SCFM (2.4 m<sup>3</sup>/min)  
Part #: 5E0971 - Aluminum  
5E0972 - Stainless Steel



## Flexible Nozzle

Special stinger required.  
Part #: 5E0973

Length: 8" (20.32 cm)  
Allows you to gently shape the barrel to get around obstructions that block your cleaning path  
Due to its diameter, this nozzle is low-flow and may be less aggressive than larger diameter nozzles  
Part #: 5E0974 - 5/8" (20.3 cm) Diameter  
5E0975 - 1/2" (1.3 cm) Diameter

## Accessories



### Threaded Handle

Threads on to 13407-001 and 13407-002 nozzle.  
Part #: 2E0245

Slides easily and rotates around the extension tubes for optimal comfort and control

Allows for a horizontal or vertical orientation



Fully adjustable. Loosen and lock by rotating the handle.

## Adjustable Tube Handle

Part #: 2E0289 - 1 3/16" (3cm) OD

## Safety Accessories



### Fire Sleeve

- Recommended if blast hose might be exposed to temperatures above 180° F (82.26° C)
  - Allow 4' (1.2m) to 20' (6.1m) coverage for area of blast hose subject to high heat
- Part #: 4N0094 - 3/4" (1.9 cm) OD  
4N0152 - 1" 2.5 cm) OD  
4N0153 - 1 1/4" (3.2 cm) OD



### Whip Check

- Recommended for each length of air hose
- Part #: 4Z0051



### Safety Kit

- Meets OSHA requirements for operator noise protection (with the use of properly rated and worn earplugs)
  - Kit includes the following:
    - 100 sets of ear plugs
    - 2 ear protectors
    - Eye protector shield
    - Gloves
    - Dry ice scoop
- Part #: 2Z0001



### Block Handler

- Allows for easy transporting of Dry Ice Block
- Part #: 70540-001

# Spare Parts

Part #	Description	Qty
70233-006	Element, Filter, 40 Micron (For -002)	2
70233-007	Repair Kit, Filter	2
70233-009	Element, Filter (For -008)	5
70069-004	Repair Kit, Regulator (For -001)	1
70193-008	Repair Kit, Regulator (For -006)	1
70335-005	Repair Kit, Poppet Valve (For -003, -004)	1
70335-006	Repair Kit, Poppet Valve (For -002, -010)	1
70412-005	Repair Kit, Lubricator (SDI)	2
70233-003	Auto Drain (For -002)	1
70411-002	Exhaust Cleaner	1
80172-001	Tubing, Polyurethane, Clear 1/4"	60'
80172-002	Tubing, Polyurethane, Black 1/4"	60'
12411-001	Trigger, Valve	1
12784-004	Hose Assy	1
70337-003	Air Motor (SDI)	1
70391-001	Valve, 4 Way Manually Operated, 1/8" NPT	1
14113-001	Valve Assy, SDI, Reverse	1
12844-026	Hose Assy, Ice	1
12751-xxx	Nozzle	1
70539-001	Valve, Mechanical, 2-way, Green Reset Button	1
70539-002	Valve, Mechanical, 2-way, Red Stop Button	1
70543-001	Valve, 4-way 90° Selector, 1/4" NPT, Black	1
70333-009	Restrictor, Barbed, 1/4" X .020"	2
70333-010	Restrictor, Inline, 1/8" NPT X .010	1
13208-M25	Applicator Assy	1
70346-007	Quick Connect, Male (Trigger Line)	1
70346-004	Quick Connect, Female (Trigger Line)	1
80244-000	Tool, Hose Banding	1
80237-032	Clamp, Hose, Center Punch, 3/8" x 1 3/8"	3
70347-018	Connector, Male 1/4" T X 1/8" NPT	1
70430-009	Connector, Male 1/4" T X 1/8" NPT H.P.	1
70107-B41	Connector, 1" P X 1" T	1
80044-S16	Tee, Male Run 1" P	2
80010-229	Nipple, 1" X 8"	1
70436-014	Tubing, Nylon 1/4" Black	AR
70109-042	Plug, Pipe 1/8"	1
70346-001	Connector, Female	1
70346-003	Connector, Male	1
70436-023	Tubing, Nylon 1/2"	AR
70436-025	Tubing, Nylon 1/2" H.P.	AR
80046-001	Whip Check, 1/8"	2