

# SDI-5

Product Catalog 2005



# 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)**



*Applicator sold as part of blast/air hose assembly*

# 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 5E0939	5E0944 5E0945	5E0950 5E0951	5E0956 5E0957
5" (12.7 cm)	5E0940 5E0941	5E0946 5E0947	5E0952 5E0953	5E0958 5E0959
8" (20.3 cm)	5E0942 5E0943	5E0948 5E0949	5E0954 5E0955	5E0960 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*



## 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" (1.6 cm) Diameter**  
**5E0975 - 1/2" (1.3 cm) Diameter**

# Nozzle Accessories

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 - 6.9 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)	5E0970				◆



## Threaded Handle

Threads on to 5E0971 and 5E0972 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

## Hoses



### Dual Hose Air and Blast Hose Assembly

Part #: 2E0406 - 15' (4.6 m) section 125 psi (8.6 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)

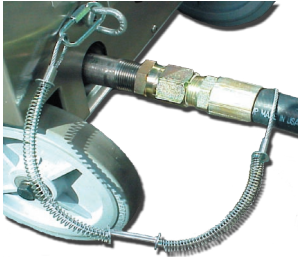
# Safety Accessories



## Fire Sleeve

- Recommended if blast hose might be exposed to temperatures above 180° F (82.26° C)
- Allow 4' (1.2m) to 15' (4.6m) coverage for area of blast hose subject to high heat

**Part #: 4N0153 - 1 1/4" (3.2 cm) OD**



## Whip Check

- Recommended for each length of air hose

**Part #: 4Z0051**



## Block Handler

- Allows for easy transporting of Dry Ice Block

**Part #: 70540-001**

## Safety Kit

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

**Part #: 2Z0001 (includes dry ice scoop)**

**2Z0001-1 (includes block handler)**



# 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
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
70346-007	Quick Connect, Male (Trigger Line)	1
70346-004	Quick Connect, Female (Trigger Line)	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	60'
70109-042	Plug, Pipe 1/8"	1
70346-001	Connector, Female	1
70346-003	Connector, Male	1
70436-023	Tubing, Nylon 1/2"	60'
70436-025	Tubing, Nylon 1/2" H.P.	60'
80046-001	Whip Check, 1/8"	2