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JOSEPH, INC.**

Industrial Supplies & Equipment

Your One Stop Shop for all your blasting needs...



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Revised July, 2013

SILICOSIS WARNING!


Abrasive blasting with sands containing crystalline silica can cause serious or fatal respiratory disease

NIOSH recommends the following measures to reduce crystalline silica exposures in the workplace and prevent silicosis and silicosis-related deaths:


1. Prohibit silica sand (or other substances containing more than 1% crystalline silica) as an abrasive blasting material and substitute less hazardous materials.
2. Conduct air monitoring to measure worker exposures.
3. Use containment methods such as blast-cleaning machines and cabinets to control the hazard and protect adjacent workers from exposure.
4. Practice good personal hygiene to avoid unnecessary exposure to silica dust.
5. Wear washable or disposable protective clothes at the worksite; shower and change into clean clothes before leaving the worksite to prevent contamination of cars, homes, and other work areas.
6. Use respiratory protection when source controls cannot keep silica exposures below the NIOSH REL.
7. Provide periodic medical examinations for all workers who may be exposed to crystalline silica.
8. Post signs to warn workers about the hazard and to inform them about required protective equipment.
9. Provide workers with training that includes information about health effects, work practices, and protective equipment for crystalline silica.
10. Report all cases of silicosis to State health departments and to OSHA or the Mine Safety and Health Administration (MSHA).

HOW TO ORDER


 **Kansas City, KS**
830 Armourdale Parkway
Kansas City, KS 66105
1-800-933-3643

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6536 E. 42nd Street
Tulsa, OK 74145
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4849 Homestead, Ste238
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1-877-905-0526

**We accept Visa, Mastercard, Discover and American Express.
Requests for net 30 day terms are subject to approval**



Stock items shipped same day on orders received by 2:00 pm CST.

Shipments FOB origin, best way unless otherwise requested.

Returns & Claims

- Returns must be accompanied by an RGA. Please call for authorization.
- Request for returns or adjustments must be made within 30 days of invoice date.
- Damaged shipment claims should be filed immediately with the carrier.
- Non-standard and Special-Order items cannot be returned.
- A restocking fee may apply

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Nova 2000 Abrasive Blasting Helmet

Part #	Description
NV2000	Nova Blasting Helmet



Features a large outer lens that allows for optimum vision without irritating side glare. NV2000 offers superior operator comfort, less fatigue, better protection and improved productivity.

Includes 28' Nylon Cape, breathing tube, and Flow Control Valve Assembly

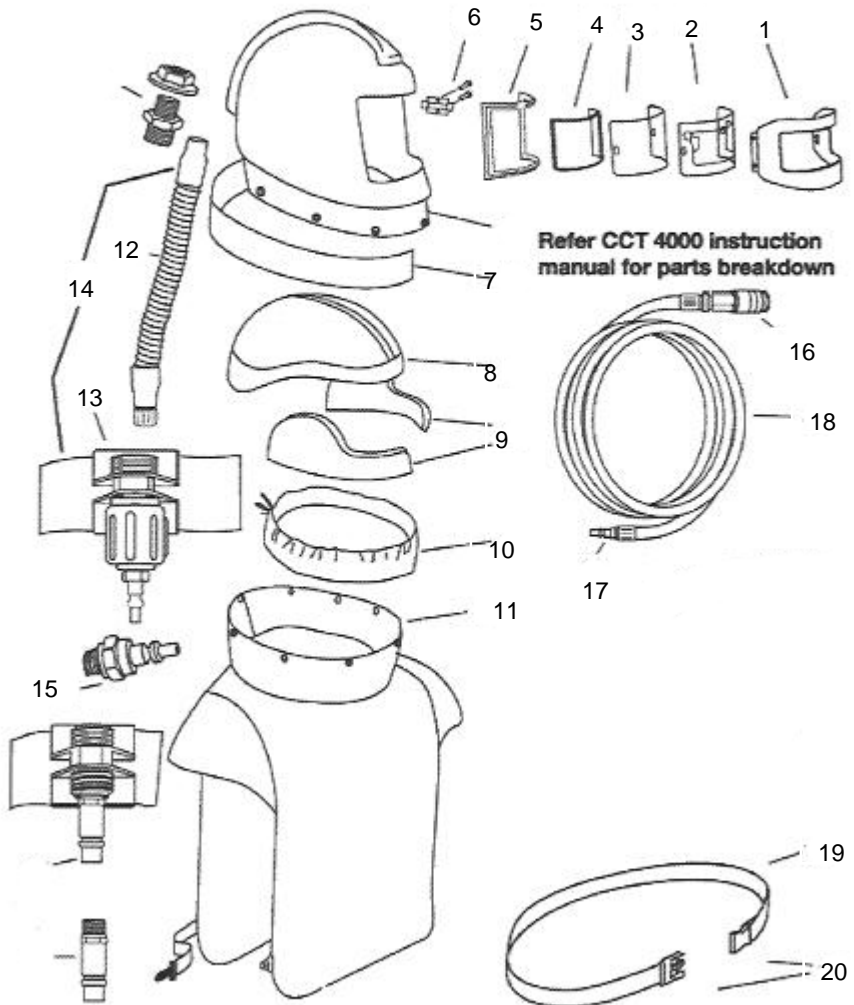
You'd believe this helmet was designed for you!



NV2018
Inner Lens

NV2017
Tear Off Lens

NV2031
Outer Lens



Nova 2000 Respirator-Replacement Parts

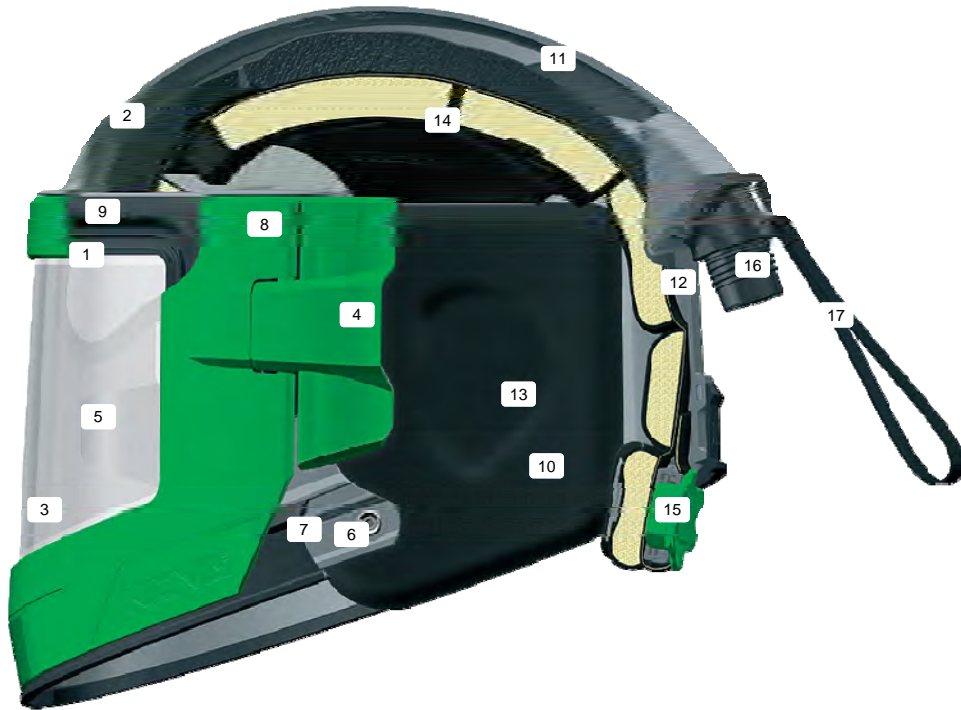
Item	Description	Part Number
1	Visor with hinge and screws	NV 2004
2	Tear-off lens (50/pack)	NV 2017
3	Outer lens .20 (50/pack)	NV 2031
	Outer lens .15 (50/pack)	NV 2032
4	Inner lens (10/pack)	NV 2018
5	Window frame gasket	NV 2003
6	Visor latch and screws	NV 2008
7	Cape cover band	NV 2013
8 & 9	Helmet lining kit (dome & side wings)- medium	NV 2009/10
	Helmet lining kit (dome & side wings)- small	NV 2009/10 SH
	Helmet lining kit (dome & side wings)- large	NV 2009/10 LH
10	Inner bib for cape	NV 2012
11	Nylon cape 28", complete with inner bib	NV 2002
	Leather cape 28", complete with inner bib	NV 2002L
	Safety orange nylon cape 28"	NV 2002SO
11	Nylon cape 38", complete with inner bib	NV 2002XL
	Leather cape 38", complete with inner bib	NV 2002L-XL
	Safety orange nylon cape 38"	NV 2002XLSO
12	Super flex breathing tube	NV 2021
13	Flow control valve and belt	NV 2016
	Cool tube assembly and belt	NV 4000-01
	Hot tube assembly and belt	NV 4000-20
14	Super flex breathing tube & flow control assy.	NV 2023
	Super flex breathing tube & climate control assy.	NV 4000-00
15	Quick disconnect tail	NV 2032
16	Quick disconnect coupler-female	NV 2025
17	Quick disconnect fitting-male	NV 2024
18	Air Supply hose 25' with fittings	NV 2028
	Air Supply hose 50' with fittings	NV 2029
19	Belt with buckles	NV 2022
20	Buckles	NV 2020

RESPIRATORS, FILTERS & AIR MONITORING

THE AMAZING **rp3** NOVA 3 HAS ARRIVED [FIND OUT MORE](#)



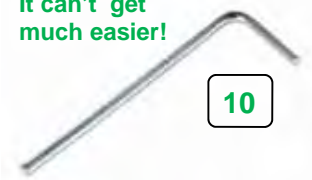
NOVA³ Heavy Industry Respirator



1. **Fit & Click Inner Lens System** –Patented inner lens system reduces down-time to a minimum. The procedure is quick, clean, and easy; even wearing gloves.
A) Remove old lens and replace with new lens **B)** clip frame back into place
C) done in 10 seconds! No struggling with inner lenses and stubborn seals.
2. **Unbreakable, durable, super-protective helmet shell**
3. **Larger viewing window**—provides optimum downward and maximum peripheral vision.
4. **Large glove-sized latch**—Tough, easy to locate.
5. **Tear Off Lens System**—One lens removed at a time. See clearly, keep blasting.
6. **Securely attached cape**—Secured with 8 fasteners, easy to replace. Six cape options to choose from
7. **Clip on cape seal**—Extra dust protection, stops abrasive from entering helmet.
8. **Removable visor**—Easy to remove for efficient lens replacement.
9. **Dust Seal**—Bellow seal system is a complete barrier to dust and particulates.
10. **Hex Lock Key**—Located inside the helmet is the only tool needed to remove all attached parts.
11. **Streamlined Air System**—Even distribution of airflow brings air to the breathe zone and reduces lens fogging. Air channel stops head chill and directs air to where it's needed.
12. **Outside Reflective Skin**—Light grey surface of the helmet actively reflects heat, keeping it cool, while the vibrant green ensures visibility, even in busy, low visibility workplaces.
- 13,14 & 15. **Comfort-Fit Padding System**—Molded side pads encase the ears, offering superior comfort and hearing protection. The system is easy to remove for hygienic cleaning. Designed to reduce pressure points on the head and balance the weight of the helmet on the head.
16. **Field-Replaceable Air Inlet Fitting**
17. **Hand Strap for Easy Carry and Perfect Hanging Storage**



It can't get much easier!



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NOVA³ Heavy Industry Respirator

Nova ³ Respirator Parts and Accessories	
Part Number	Description
NV3-702-XX	Nova ³ Helmet with Flow Control Valve
NV3-703-XX	Nova ³ Helmet with Cool Air Tube
NV3-704-XX	Nova ³ Helmet with Hot Air Tube
<i>Nova³ Helmet and accessory packages available upon request</i>	
NV3-722	Nova ³ Inner Lens (10 pack)
NV3-724	Nova ³ Outer Lens (50 pack)
NV3-725	Nova ³ Tear Off Lens (50 pack)
NV2012	Inner Bib
NV3-750	Nova ³ 28" Nylon Cape
NV3-751	Nova ³ 38" Nylon Cape
NV3-754	Nova ³ Blast Jacket Size XL
NV3-731	Nova ³ Side Padding Frames (Left & Right)
NV3-732-A10	Nova ³ Side Padding Foam, Type A, Size 10
NV3-732-A15	Nova ³ Side Padding Foam, Type A, Size 15
NV3-732-A20	Nova ³ Side Padding Foam, Type A, Size 20
NV3-733	Nova ³ Side Padding Covers (5 Pair)
NV3-734	Nova ³ Head Liner Kit
NV3-735	Nova ³ Head Liner Foam Padding
NV3-735-1	Nova ³ Neck Pad
07-900	Nova ³ Adjustable Head Support
NV3-721	Nova ³ Inner Gasket
NV3-723	Nova ³ Inner Lens Frame
NV3-726	Nova ³ Visor Kit (Incl. Hinge & Latch)
NV3-727-8	Nova ³ Mount Kit
NV3-727-2	Nova ³ Hinge Lock
NV3-729	Nova ³ Air Inlet Kit (Incl. NV3-729 & 729-1)
NV3-730	Nova ³ Padding Connectors (Left & Right)
NV3-734-1	Nova ³ Head Liner Clips (4 pack)
NV3-759	Nova ³ Cape Cover Band



Blast Jackets

The Nova³ is also available with Blast Jackets. The RPB Blast Jacket is designed to offer greater protection from dust and particulates. Also when you are using a cool tube, the jacket directs the cool air around your torso, so you not only have a cool head, but the system cools your entire upper body.

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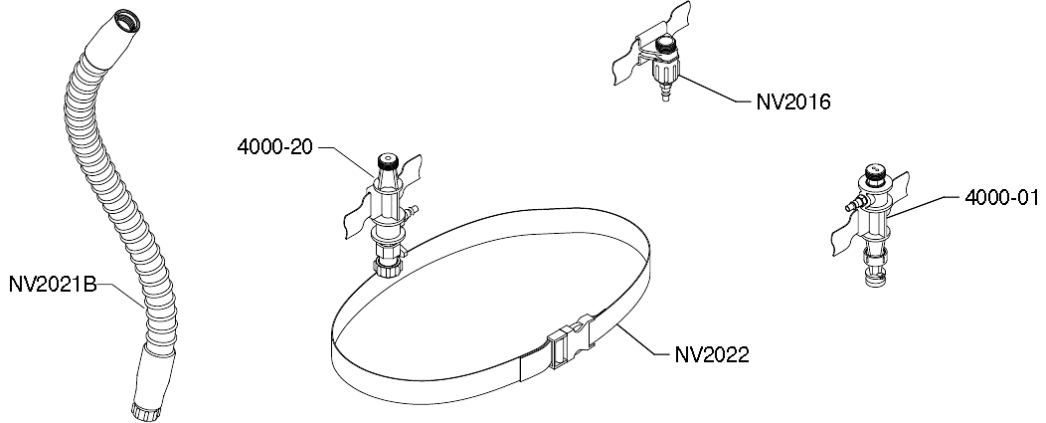
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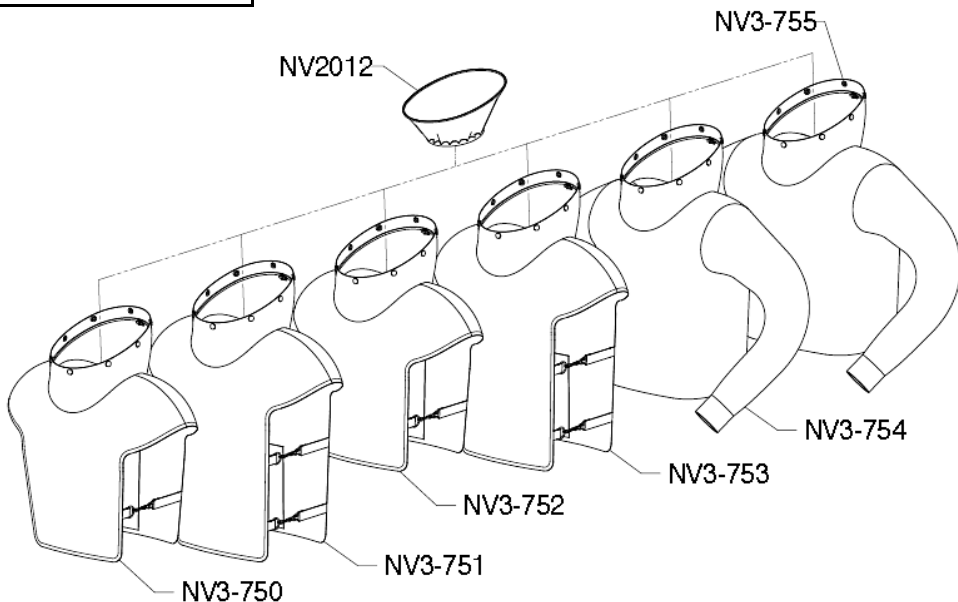


Nova 3 Parts and Accessories



↓ Respirator Capes	
Part No.	Description
NV3-750	28" Nylon Cape
NV3-751	38" Nylon Cape
NV3-752	28" Leather Cape
NV3-753	38" Leather Cape
NV3-754	Blast Jacket, XL
NV3-755	Blast Jacket, XXL
NV2012	Inner Bib

↑ Breathing Tube and Flow Control Device	
Part No.	Description
NV2021B	Breathing Tube (Dark Grey)
NV2022	Belt
NV2016	Flow Control Valve Assembly
NV4000-01	Cool Air Tube Assembly
NV4000-20	Hot Air Tube Assembly

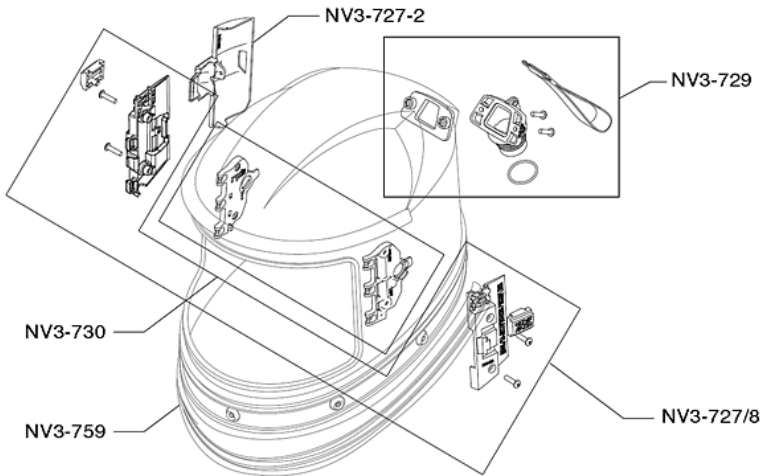


THE AMAZING **rpb** NOVA 3 HAS ARRIVED

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RESPIRATORS, FILTERS & AIR MONITORING

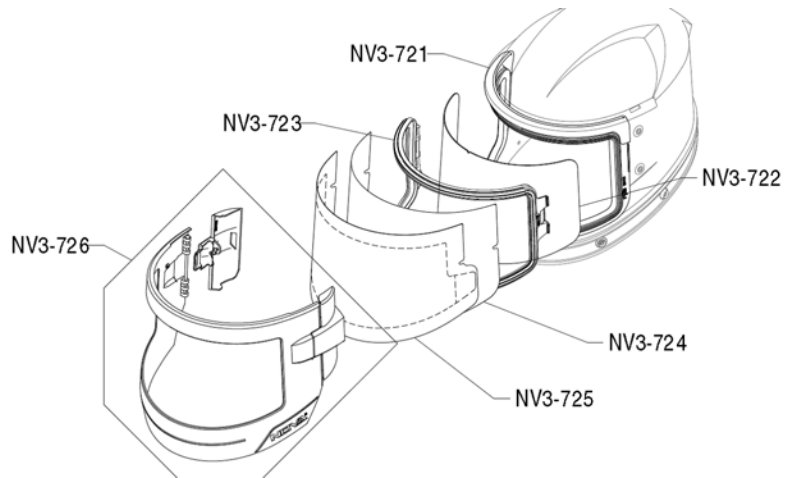


← Nova 3 Helmet Components

Part No.	Description
NV3-727-2	Visor Hinge Lock
NV3-727/8	Visor Latch Mount Kit
NV3-729	Air Inlet Kit
NV3-730	Padding Connectors
NV3-759	Cape Coverband

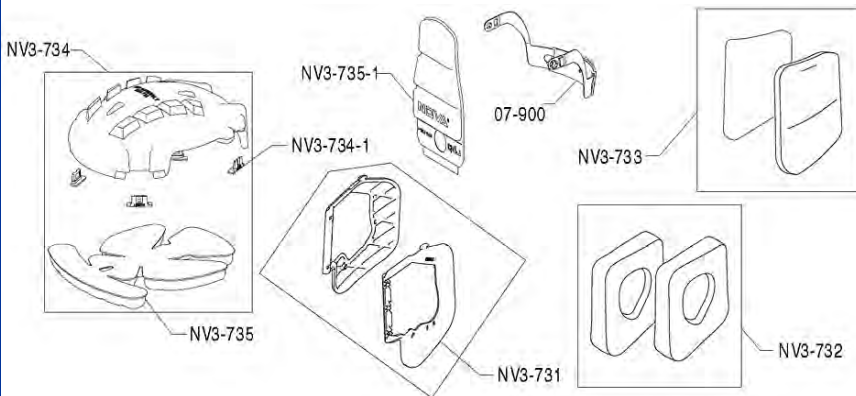
Visor and Lenses →

Part No.	Description
NV3-721	Inner Gasket
NV3-722	Inner Lens 10/Pkg
NV3-723	Inner Lens Frame
NV3-724	Outer Lens 50/Pkg
NV3-725	Tear Off Lens 50/Pkg
NV3-726	Visor Kit



← Padding Systems

Part No.	Description
NV3-731	Side Padding Frames
NV3-732-XXX	Side Padding
NV3-733	Side Padding Covers
NV3-734	Head Liner Kit
NV3-734-1	Head Liner Clips, 4/Pkg
NV3-735	Head Liner Padding
NV3-735-1	Neck Pad
NV3-07-900	Adjustable Head Support



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RESPIRATORY PROTECTION

RESPIRATORS, FILTERS & AIR MONITORING



Nova Radex Airline Filter

The RADEX System... More Filtration, Capacity, Versatility

The **RADEX** airline filter from **RPB Respiratory** offers you more capacity, more versatility and more filtration. You can combine the versatility of either floor mounting or wall mounting with increased filtration capacity. Our range of optional equipment means you can customize your **RADEX** airline filter to meet your breathing air requirements, whether it be Grade D, AS1715, EN12021 or ISO8573.1 there is a **RADEX** system for you.



Part #	Description
04-900 (NV3001)	Airline Filter Complete with 1 Outlet Pressure Regulator Assembly, Pressure Relief Valve, Outlet Tee 3/8" Cap x 1 Quick Release Coupler x 1
04-906	Airline Filter Complete with 6 Outlet Pressure Regulator Assembly, Pressure Relief Valve, Outlet Tee 3/8" Cap x 1 Quick Release Coupler x 1

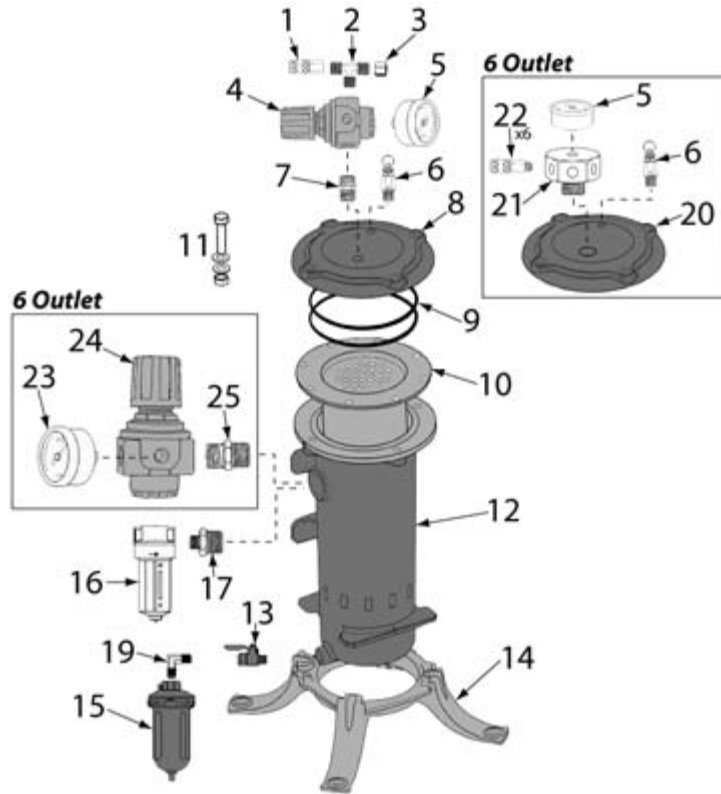
Available as either a wall mount or floor mount



RESPIRATORY PROTECTION



Nova Radex Airline Filter



Item	Part #	Description
1	04-911	Quick Disconnect Coupler
2	04-912	3/8" Tee
3	04-913	3/8" Cap
4	04-914	Pressure Regulator
5	04-915	Pressure Gauge
6	04-916	Pressure Relief Valve 125 psi
7	04-917	3/8" Hex Nipple
8	04-918	Lid
9	04-919	O-Ring (set of 2)
10	APF-3100	Filter Cartridge
11	04-920	Bolt, Nut Washer set x 4
12	04-921	Body

Item	Part #	Description
13	04-922	Drain Trap
14	04-923	Base Mount
15	04-924	Auto Drain Unit
16	04-925	Micro-Mist Filter 1/2"
17	04-926	1" x 1/2" Reducing Nipple
18	04-927	Main Line Pre-Filter
19	04-928	Brass Elbow
20	04-961	6 Outlet Filter Lid
21	04-965	6 Outlet Manifold
22	04-964	Couplers
23	04-963	Pressure Gauge
24	04-962	Super High Flow Regulator
25	04-966	Connector, 1" NPT

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RESPIRATORY PROTECTION



RESPIRATORS, FILTERS & AIR MONITORING

Airline Filter Cartridges



Part #	Description
APF-3100	Airline Filter Flanged Style Replacement Cartridge Fits: Radex/Nova Bullard (#41AF) Empire (#504682)



Part #	Description
AFC-100	Airline Filter Replacement Cartridge Fits: Abec Clemco (#03547) Indian



RESPIRATORY PROTECTION



Nova Radex CO Monitor

<u>Part #</u>	<u>Description</u>
08-200	Radex Carbon Monoxide Monitor

Monitor Includes: 12 V AC Power Adaptor, Supply Hose, RPB Software, and USB Cable

The **Radex Carbon Monoxide Monitor** is factory calibrated and can be as simple as - Power On, Air On and Turn On or it can be as technical as you want with full traceability of alarms, calibrations and more.

The **Radex Carbon Monoxide Monitor** is mounted in a rugged carry case and it can be mounted onto the **Radex Airline Filter** or Wall Mounted. Monitor can be fitted with external alarms and relays to activate solenoids which can shutdown equipment as a safety measure.



Part #	Description
08-221	Power Adaptor Pack
08-227	12V Cable with Battery Clips
08-233	Strobe Light w/50ft cable
08-234	External Alarm & Strobe Light w/50ft Cable
08-238	Supply Hose

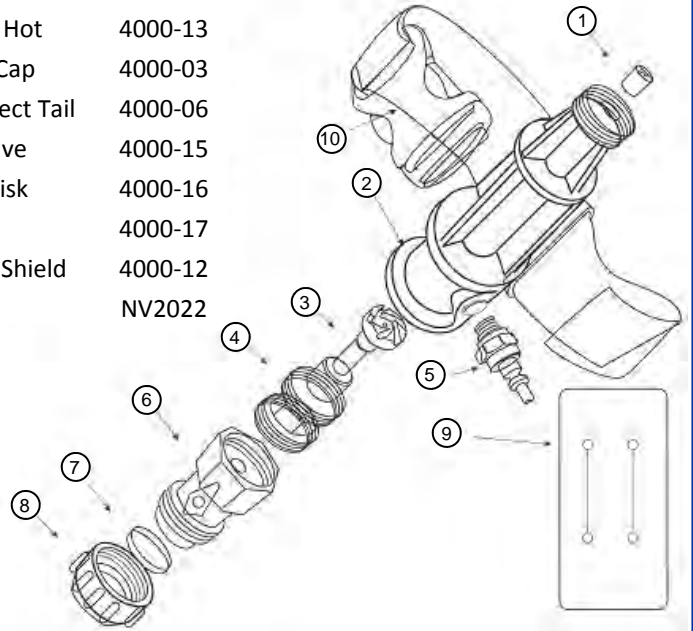
RESPIRATORS, FILTERS & AIR MONITORING



Nova Hot Tube

PARTS LIST

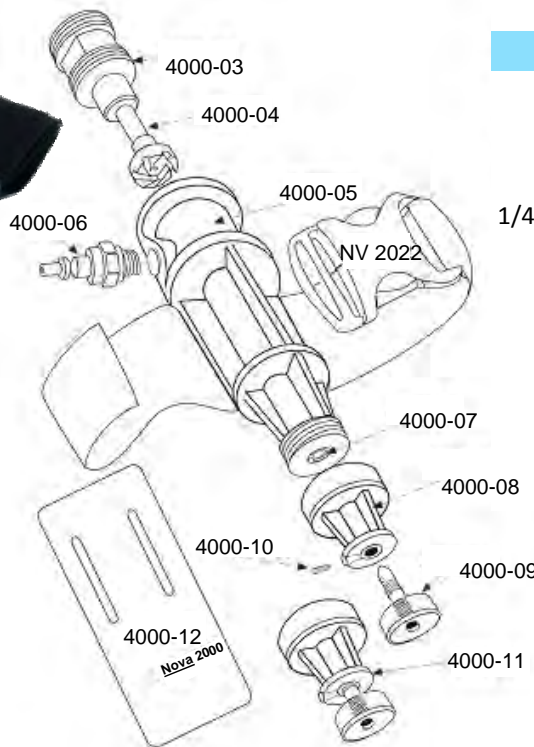
ITEM	DESCRIPTION	PART NO.
1	Flow Reducer	4000-14
2	Body	4000-05
3	Air Spinner Hot	4000-13
4	Threaded Cap	4000-03
5	Quick Disconnect Tail	4000-06
6	Outlet Valve	4000-15
7	Silencer Disk	4000-16
8	Nut	4000-17
9	Temperature Shield	4000-12
10	Belt	NV2022



NOVA COLD TUBE

PARTS LIST

ITEM	PART NO.
Top Threaded Cap	4000-03
Air Spinner	4000-04
Body	4000-05
1/4" Quick Disconnect Tail	4000-06
Breaker	4000-07
Regulator Body	4000-08
Spindle & knob	4000-09
Locking Screw	4000-10
Regulator Assembly	4000-11
Heat Shield	4000-12
Belt	NV2022



Nova Talk Blast Helmet with Wireless Communication System



The **NOVA TALK SYSTEM** is a wireless communication system which has been designed to enhance the blasting experience, raise the level of safety and further increase the productivity already provided by the Nova 2000.

Greater Standard of Safety

Maintain contact with your crew at all times. The Nova Talk is ideal for applications such as tanks, shipyards, water towers or any site where the operators are out of sight or not easily accessed. Utilize communication to enhance staff training.

Increased Productivity

The ability to communicate while blasting increases productivity, reducing downtime to a minimum. With the Nova Talk, the operator can continue blasting while communicating.

Superior Operator Comfort

The Nova Talk head set is encased in the pillow foam padding of the Nova 2000 so there is no change to the comfort that has made the Nova 2000 the World's Number One!

The Nova Talk system is compatible with many radio systems. Radio not included. Contact us for a list of compatible Radio Models.

Push to Talk

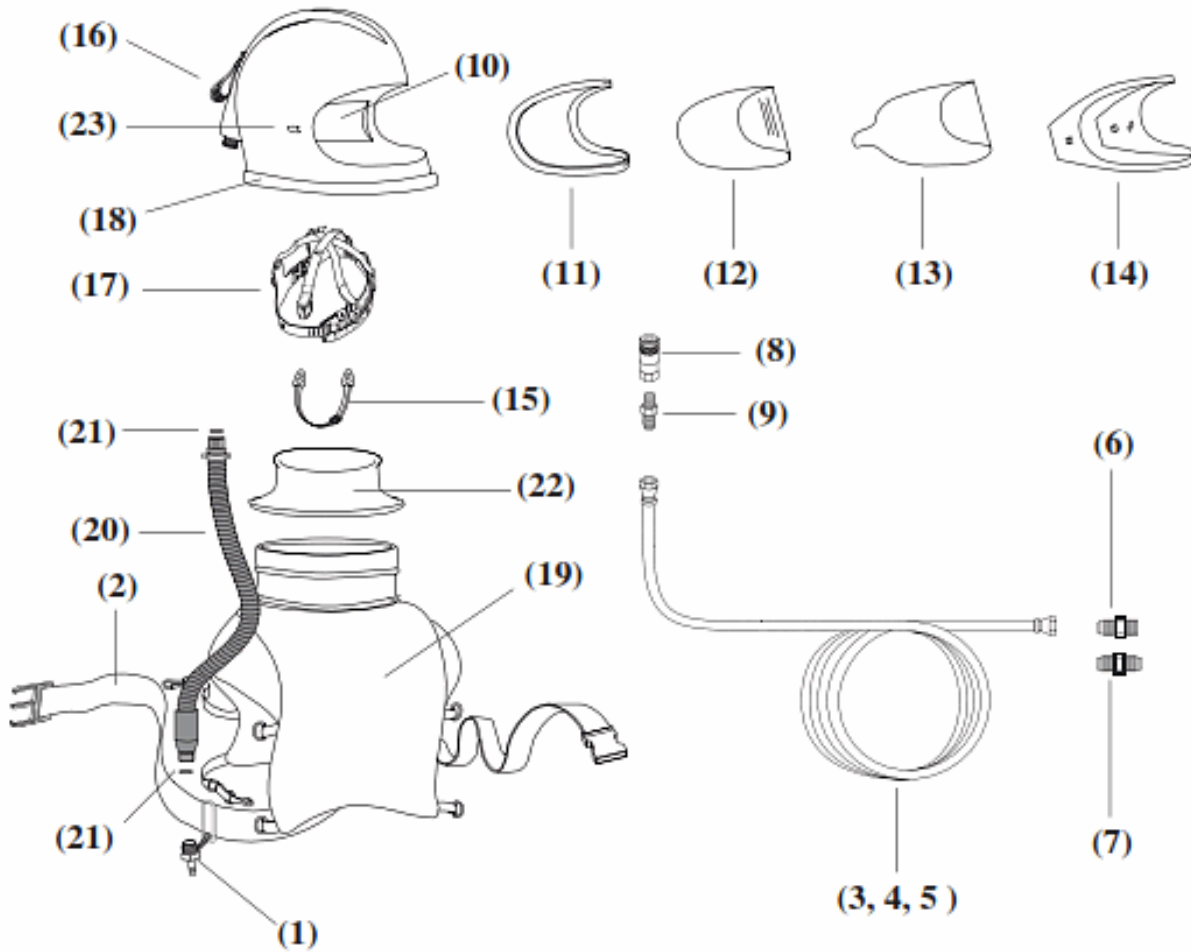
The large Push to Talk (PTT) is a sealed unit which is intrinsically safe. It has a large button that is designed for easy activation. The PTT is mounted on a belt clip which swivels 360° so its position can be easily adjusted for ease of use and comfort.

Also Available: Upgrade Kit NV09-800 to upgrade your Nova 2000 to a NOVA TALK.



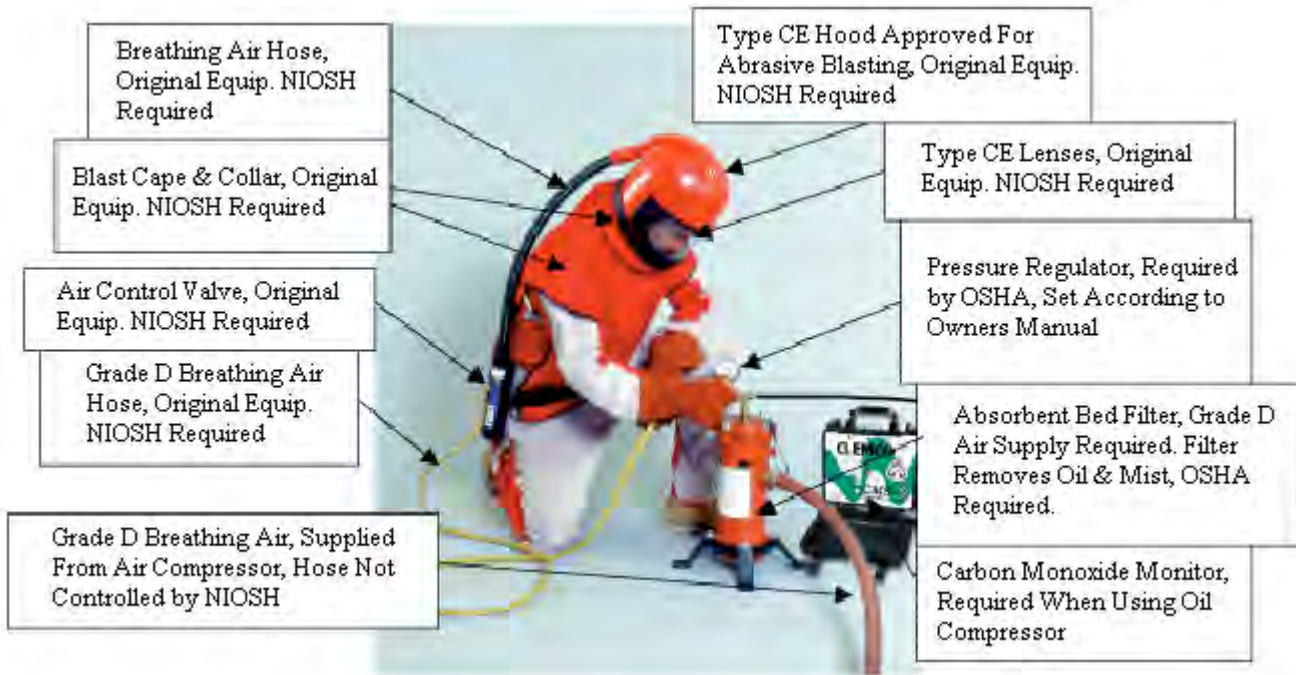


RESPIRATORS, FILTERS & AIR MONITORING



ITEM	Apollo 60 HP (Accessories)	Stock #
1	Constant-Flow connector, w/o belt	21415
2	Belt Assembly, 2"	04430
3	Respirator Hose, 3/8"x25' (incl 00022 & 01020) (optional)	04397
4	Respirator Hose, 3/8"x50' (incl 00022 & 01020) (standard)	04415
5	Respirator Hose, 3/8"x100' (incl 00022 & 01020) (optional)	04398
6	Adaptor, 3/8" hose to 3/8" pipe	00022
7	Union, 3/8" hose to 3/8" hose	01020
8	Disconnect, 1/4" female	00025
9	Adaptor, 3/8" hose to 1/4" pipe	01019
10	Acoustical foam kit, sides	04369
11	Gasket, window	04452
12	Inner lens, .040" (pk of 5)	04367
13	Outer lens, .0075", perforated (pk of 25)	25020
	Outer lens, .0075", perforated (pk of 25)	04361
	Intermediate lens, .020" (pk of 5)	24943
	Intermediate lens, .020" (pk of 25)	04373
14	Window frame kit	08741
15	Chin strap	04460
16	Handle strap	03623
17	Suspension	10532
18	Cape attachment strap	10534
19	Cape, Red, with black inner collar	04435
20	Breathing tube assembly w/ swivel ends	22811
18	Washer, breathing tube (pk of 6)	04370
19	Inner collar	08740
20	Window latch kit	04368
21	O-ring	21561
22	Air Control Valve w/belt	100024
	Box-Front window assembly	04515

The Use of Personal Protective Equipment and Regulations & Standards Affecting Safe Abrasive Blasting:
By Thomas E. Enger, MS, CSP, CHMM, Clemco Industries Corp.



The above figure shows one of the most commonly used Supplied Air Respirators. It is composed of :

- Helmet
- Removable Knitted Collar
- Breathing Air Hose
- Air Control Valve
- Cape
- Air Supply Line
- Helmet Lenses

The only acceptable replacement parts for any of these items are those made by the original manufacturer.



Clemco Apollo 600

The Clemco Apollo Series Supplied-Air Respirators are hallmarks of safety, comfort, and performance. Recognizable by their bright red-orange color, Apollo 600 Respirators are easily visible on the job site. Their wide-span window offers the wearer a commanding view of the work surface and broad-scope peripheral vision. The 600 has new features making it comfortable to wear, easier to maintain, and more durable, promising a long service life.



• **FEATURES:**

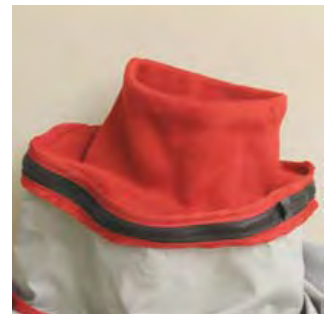
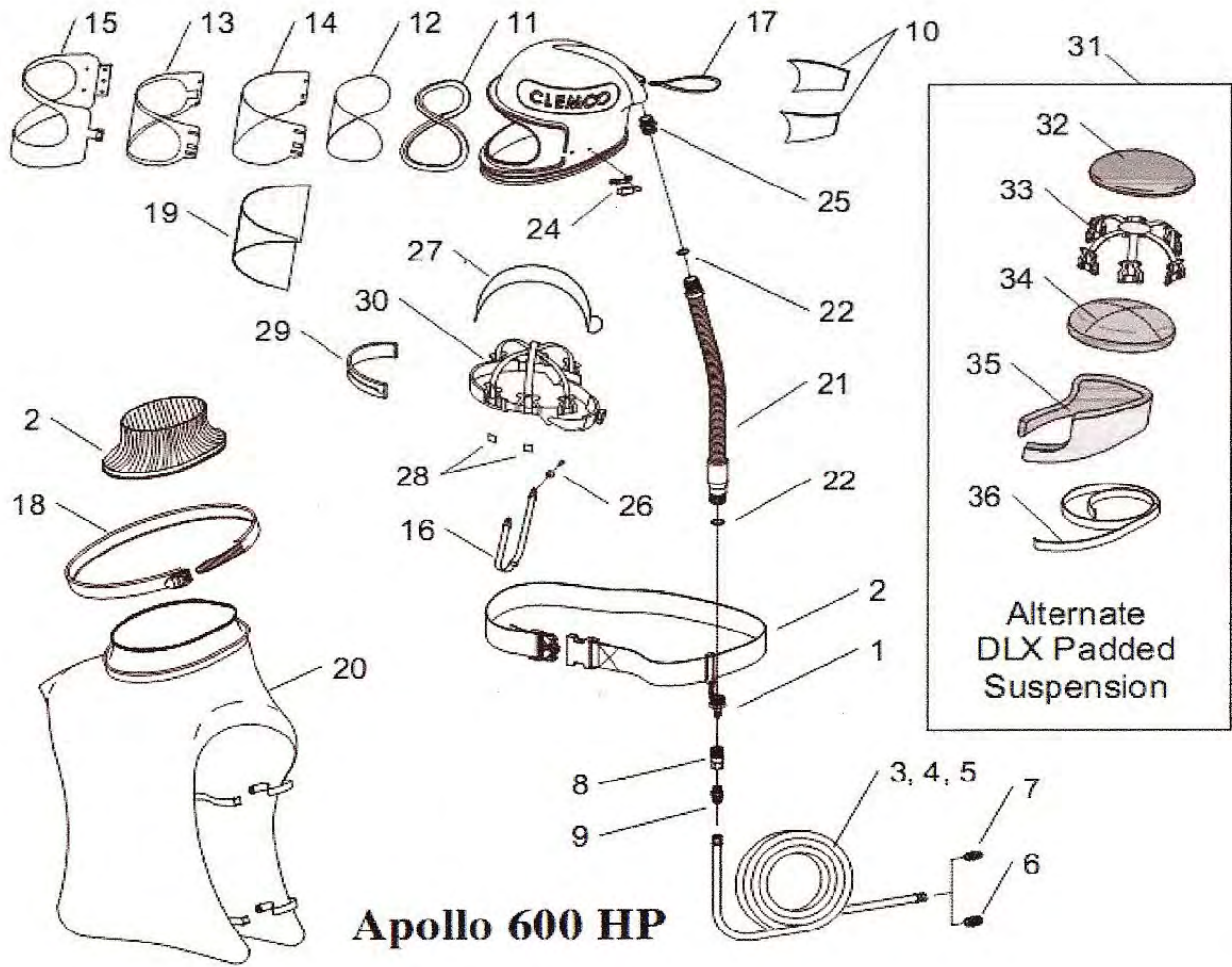
- an easily adjustable suspension to suit a range of head sizes
- an integral strap for carrying or hanging the helmet
- a replaceable inlet fitting, an area of the helmet assembly subject to high-stress when the user carries the helmet by the breathing tube
- a deep window frame that extends over the cape attachment area to prevent cape wear from rebounding abrasive
- a molded window gasket that securely grips the inner lens and prevents media ingress
- a three-lens system with outermost perforated tear-away lenses to speed the way to clear vision during the blast operation and an intermediate lens to provide additional sealing and to protect the durable fixed inner lens from premature wear
- an integral visor that extends over the tops of the installed lenses to prevent media from lodging between the lenses
- a silver-grey cape that reflects the sun's hot rays
- a comfortable zip-in-and-out replaceable knit neck collar that can be removed for laundering

Description	Regular Fit	DLX Fit
Apollo 600 HP less respirator hose with:		
Constant-flow connector	24001	25191
Air-control valve	24002	25192
Clem-Cool Air Conditioner	24932	25195
Cool-air tube	24003	25193
Climate-control tube	24004	25194
Apollo 600 HP with 50 ft. respirator hose and:		
Constant-flow connector	24771	25201
Air-control valve	24210	25203
Clem-Cool Air Conditioner	24933	25209
Cool-air tube	24211	25205
Climate-control tube	24212	25207
Apollo 600 HP with 50 ft. respirator hose, CPF-20 air filter and:		
Constant-flow connector	24772	25201
Air-control valve	24213	25203
Clem-Cool Air Conditioner	25299	25209
Cool-air tube	24214	25205
Climate-control tube	24215	25207

**Now with Optional
DLX Comfort-Fit
Suspension!**



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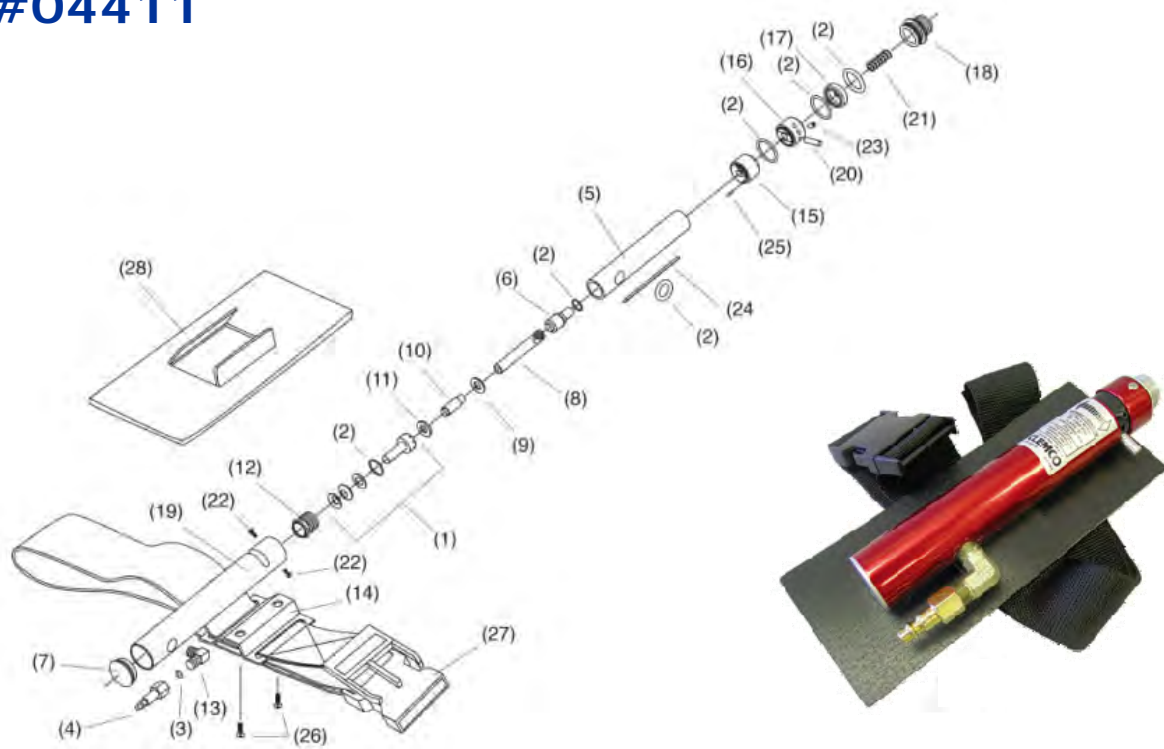
St. Louis, MO
800-513-9857

Ft. Worth, TX
800-480-8957



ITEM	Apollo 600 HP (Accessories)	Stock #
1	Constant-flow connector, HP, w/o belt	21415
2	Belt Assembly, 2"	04430
3	Respirator Hose, 3/8"x25' (incl 00022 & 01020) (optional)	04397
4	Respirator Hose, 3/8"x50' (incl 00022 & 01020) (standard)	04415
5	Respirator Hose, 3/8"x100' (incl 00022 & 01020) (optional)	04398
6	Adaptor, 3/8" hose to 3/8" pipe	00022
7	Union, 3/8" hose to 3/8" hose	01020
8	Disconnect, 1/4" female	00025
9	Adaptor, 3/8" hose to 1/4" pipe	01019
10	Acoustical foam kit, sides	04369
11	Gasket, window	23819
12	Inner lens, .040" (pk of 5)	04367
13	Outer lens, .0075", perforated (pk of 25)	04361
14	Intermediate lens, .020" (pk of 5)	24943
14	Intermediate lens, .020" (pk of 25)	04373
15	Window frame assembly	24012
16	Chin strap	04460
17	Handle strap	03623
18	Cape attachment strap	23801
19	Rectangular outer lens, .015" non-per (pk of 25) optional	24005
20	Cape, silver-grey, with inner collar	23818
21	Breathing tube w/ swivel ends	22811
22	O-ring, 11/16" ID x 7/8" OD (2 required)	22815
23	Inner collar	08740
24	Window latch kit incl: base and screws	24006
25	Inlet fitting	23804
26	Chin strap holder kit w/ fasteners	24008
27	Partition, air baffle	23811
28	Clips, suspension (pack of 4)	24773
29	Sweatband, used with item 30	23817
30	Web suspension with sweatband (alternate)	23802
31	DLX padded suspension kit (alternate) incl items 27 and 32 thru 36	25189
32	32.Pad, top	25181
33	Suspension web (for DLX only)	25184
34	Pad, middle	25182
35	Pad, side black/grey fits most head sizes black/blue for smaller head sizes	25183 25187
36	Velcro tape, 1" wide adhesive backed, 3-ft	24656

Clemco Climate Control Tube #04411



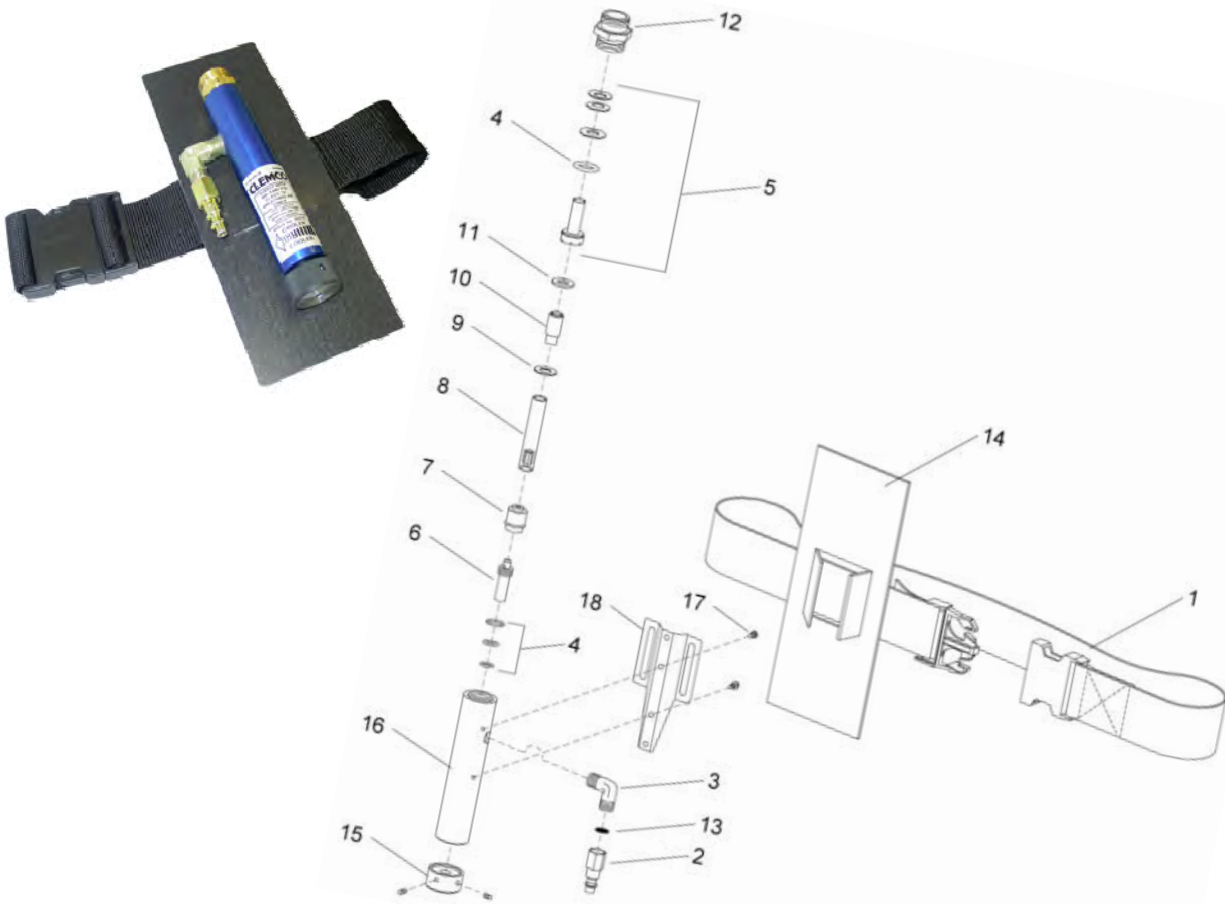
Item	Part #	Description
	04411	Climate Control Tube w/belt
1	08846	Cool-end Venturi*
2	08845	Seal Kit, (includes all o-rings and seals)
3	08983	Screen
4	08449	Quick Disconnect
5	08825	Body
6	08826	Orifice, hot-end
7	08827	Plug
8	23030	Vortex tube assembly
9	08966	Spacer, narrow
10	08967	Venturi
11	08968	Spacer, wide
12	08829	Threaded retainer
13	08869	Elbow, 1/4" male
14	08974	Belt clip

Item	Part #	Description
15	08830	Lower valve plate
16	08831	Upper valve plate
17	08832	Support washer
18	08833	Outlet fitting
19	08834	Body housing
20	08835	Control lever
21	08844	Spring
22	03870	Machine screw 6-32 x 1/4"
23	03072	Set screw, 1/4-NC x 1/2"
24	08836	Spacer
25	08838	Pin, valve plate
26	03886	Machine screw, 10-24 x 1/2"
27	04430	Belt
28	08981	Heat shield

* Both items include the cool end venture o-ring

RESPIRATORS, FILTERS & AIR MONITORING

Clemco Cool Air Tube #04110



Item	Part #	Description
	04410	Cool-Air Tube, complete
1	04430	Belt
2	08449	Quick disconnect
3	08869	Elbow, 1/4" male
4	08870	Seal kit (4 o-rings)
5	08871	Cool-end Venturi kit
6	08962	Valve stem
7	08963	Valve insert
8	23030	Vortex tube assembly
9	08966	Spacer, narrow

Item	Part #	Description
10	08967	Tube, venturi
11	08968	Spacer, wide
12	08971	Helmet hose connection
13	08973	Filter screen
14	08981	Heat shield
15	08985	Knob with set screws
16	08961	Body
17	08980	Machine screw, round head 10-24 x 1/4"
18	08974	Belt Clip

Note: If items 4 & 5 are ordered together you will receive an extra cool-end venturi O-ring.

RESPIRATORS, FILTERS & AIR MONITORING

THE PROCESS AND APPLICATIONS

Abrasive blasting is the process of propelling abrasive particles from a blast machine using the power of compressed air. Converting abrasive particles and compressed air into an effective cleaning treatment takes skill, properly engineered equipment, and good judgment. Each component contributes to the overall performance of the system.

Air compressor, blast machine system, and abrasive are the three catalysts that comprise the blasting system.

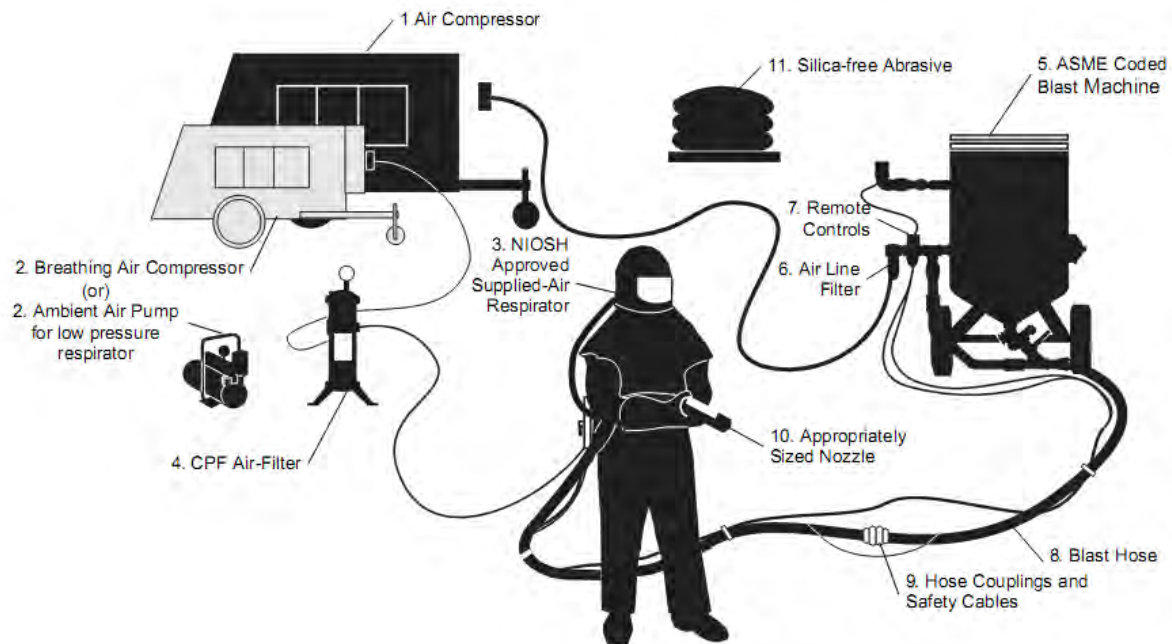
The compressor produces the required air pressure and volume to discharge abrasive from the blast pot to the surface.

The blaster contains the abrasive that is metered to the user's desire into the air stream with as little restrictions as possible.

Surface cleaning occurs as a result efficient air movement from the compressor to the surface.

Any restrictions in this process reduces the total productivity of this system

Surface preparation, surface cleaning and finishing, and shot peening are generally classified as the three broad categories under which blasting applications fall.



CLIMATE CONTROL COOLING

Part #	Description
24854	Clemco Comfort Vest



Clemco Comfort Vest is a lightweight, one-size-fits-most personal protective garment for warming or cooling industrial workers exposed to stressful hot and cold environments indoors or out.

It can be used in a variety of workplaces and industries where workers are exposed to heat or cold. The vest operates on 20 cfm of compressed air. Directional air jets located on chest and back panels emit generous air streams to the upper back and chest areas offering upper body cooling, or warming, depending upon the air conditioning device chosen.

- Cools or Warms Workers on the job
- Operates on compressed-air supply
- Made from washable, flame-resistant fabric
- Helps reduce job-site heat-related illnesses or fatigue

ORDERING INFORMATION

Description	Stock No.
Comfort Vest Only	24854
Comfort Vest with Clem-Cool Air Conditioner (for cooling only)	25266
Comfort Vest with Climate-Control Tube (for warming or cooling)	24856
Accessories	
Clem-Cool Air Conditioner with Belt	23825
Climate-Control Tube with belt	04411

This listing is just a small example of products available from Canfield & Joseph, Please call for any specialty needs.

RESPIRATORY PROTECTION



RESPIRATORS, FILTERS & AIR MONITORING

Part #	Description
03578 & 03527	CPF20 & CPF 80 Air Filter

#CPF-80



Clemco CPF in-line air filters remove moisture, oil, and dirt particles from compressed air before it reaches your respirator. Multi-stage filtration system includes activated charcoal to eliminate odors and improve the "taste" of your breathing air. Available for one to four air lines; used with HP Model respirators.

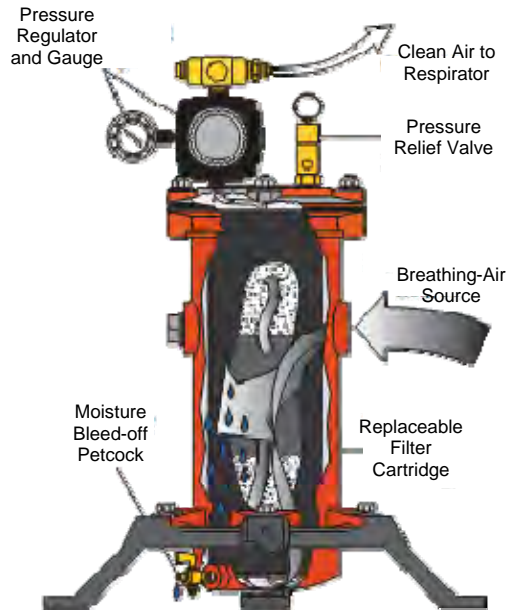
NOTE: CPF filters do not remove CO or convert CO to CO₂, or remove other toxic gases.

Model CPF-20 for up to two operators: Stock No. 03578
Model CPF-80 for up to four operators: Stock No. 03527
Replacement Filter for CPF20/80: Stock No. 03547

#03547



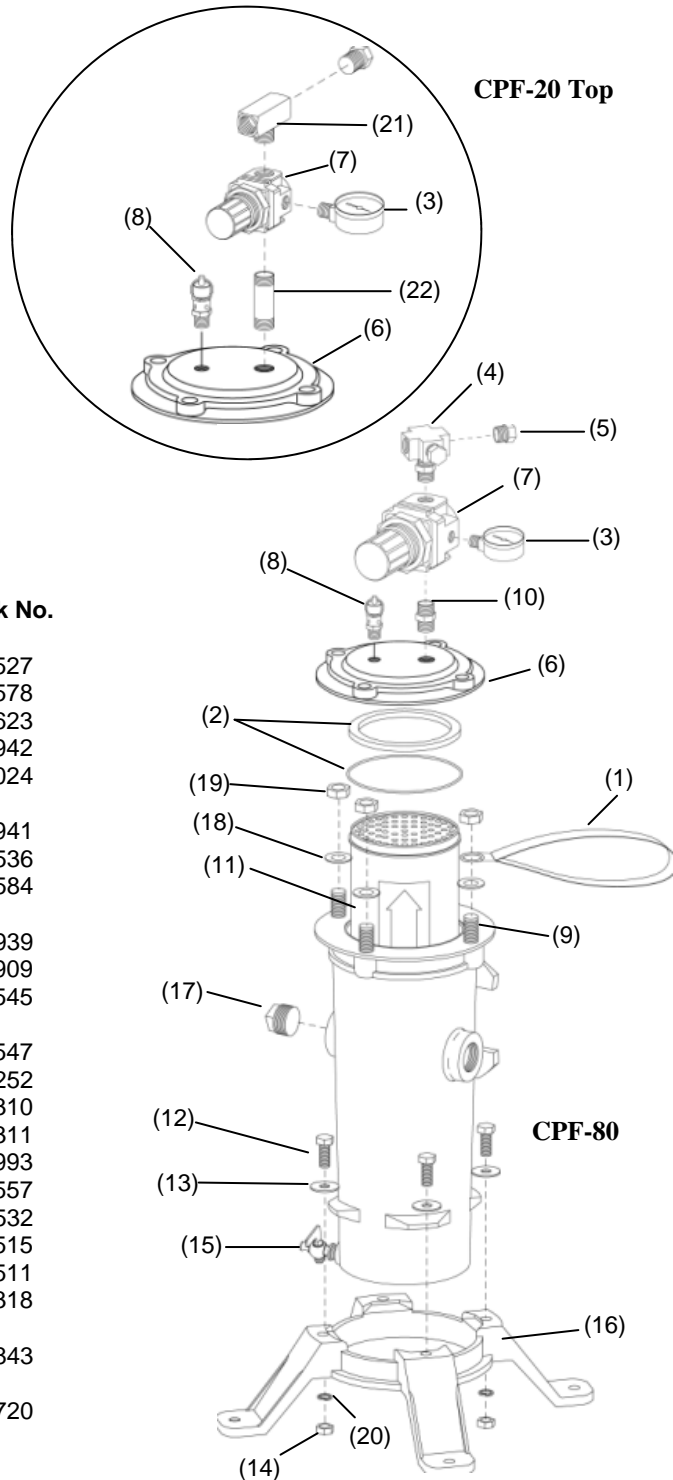
CPF-20



RESPIRATORY PROTECTION



CPF-20 and CPF-80 Air Filter



Replacement Parts

Item Description	Stock No.
(-) CPF-80 air filter, with regulator.....	03527
(-) CPF-20 air filter, with regulator.....	03578
1. Handle.....	03623
2. Gasket and O-ring kit*.....	08942
3. Pressure gauge.....	00024
4. Cross manifold, 3/8" NPT (only on CPT 80).....	22941
5. Plug, 3/8" NPT Brass.....	03536
6. Cap, CPF filter.....	03584
7. Pressure regulator, 3/8" NPT large body (only on CPF 80).....	22939
8. Relief valve, 1/4" NPT.....	01909
9. Stud, 1/2-NC x 2".....	03545
10. Nipple, 3/8" NPT hex	
11. Cartridge, CPF filter.....	03547
12. Cap screw, 3/8-NC x 1" hex head.....	03252
13. Washer, 1 1/4" OK.....	03310
14. Nut, 3/8-NC.....	03311
15. Petcock, 1/4".....	01993
16. Base Bracket.....	03557
17. Plug, 1" NPT.....	03532
18. Washer, 1/2" SAE flat.....	03515
19. Nut, 1/2-NC.....	03511
20. Washer, 3/8" lock.....	03318
21. Tee, 3/8" NPT, male branch (only on CPF 20).....	22843
22. Nipple, brass, 3/8" NPT x 2" (only on CPF 20).....	03720

RESPIRATORS, FILTERS & AIR MONITORING

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Ft. Worth, TX
800-480-8957



RESPIRATORY PROTECTION

CLEMCO[®]
INDUSTRIES CORP.

CMS Series Carbon Monoxide Alarm



Part #	Description
23017	CMS-1 Carbon Monoxide Monitor/Alarm

CMS-1 is a wall-mountable carbon monoxide monitor and alarm for respirator air supply. If CO exceeds 10 ppm, it triggers a warning light, and a high-decibel audible alarm. Includes Calibration Kit

Part #	Description
22894	CMS-2 Carbon Monoxide Monitor/Alarm

The CMS-2 is a field portable carbon monoxide monitor and alarm for respirator air supply. If CO exceeds 10 ppm, it triggers a warning light, and a high-decibel audible alarm. The rugged case with comfortable carrying handle, protects the monitor from minor impacts. Used by blasting and painting contractors for field operations. Available in 120V AC & 12V DC. Includes Calibration Kit



Part #	Description
24612	CMS-3 Carbon Monoxide Monitor/Alarm

The CMS-3 monitor detects carbon monoxide in the breathing air supply and triggers audible, visual, and vibratory alarms when CO is detected in concentrations of at least 10 parts per million. The alarms alert the operator to an unsafe condition.

*Replacement Calibration Parts Available

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Apollo Wireless Communication Systems #24990
Without the Radios #24991

Radios Only-- Motorola Talk-a-bout or similar two-way radios, 1 watt, 22 channels, 10 call tones, backlit display screen, NiMH rechargeable battery, single battery charger, up to 8 mile range #24995



Apollo WiComm-50 Set

STOP SHOUTING! The Apollo Wireless Communication System allows two-way communication between the blast operator(s) and the supervision. Once considered a luxury, these rugged radios will prove their worth by saving you time and money.

Set includes: One ultra-lightweight headset with adjustable boom microphone, arm-activated push-to-talk switch, two each FRS/GMRS two-way radios with rechargeable batteries, single battery charger.

Available Literature:

23439 - Apollo Wireless Communication Systems

Apollo Wireless Communication Systems #24999

Motorola CP-200 or similar radio, 4 watt, rechargeable battery, 4 channels, 2 programmable feature Buttons, busy channel lockout, high/low power settings, repeater/talka-round, voice operate transmit Timer, monitor, scan, and various signaling features #21690 – (Radio Only)



Apollo WiComm-Pro Set

STOP SHOUTING! The Apollo WiComm-Pro Set allows two-way communication between the blast operator(s) and the supervisor. Once considered a luxury, these rugged radios will prove their worth by saving you time and money.

Set includes: One ultra-lightweight headset with adjustable boom microphone, arm-activated push-to-talk switch, one WiComm-Pro portable two-way radio, battery charger and cross-chest radio holster (not shown).

Available Literature:

23439 - Apollo Wireless Communication Systems

Individual Helmet Communicator System Components

Ultra-lightweight Headset_____	#25000
PTT Switch for WiComm 50 Radio_____	#25001
PTT Switch for WiComm Pro Radio_____	#25002
Holster_____	#24996
WiComm Set w/o Radio for customer supplied radio_____	#25003
(please specify make & model)	

RESPIRATORS, FILTERS & AIR MONITORING



88VX Series Abrasive Blasting Helmet

<u>Part #</u>	<u>Description</u>
88VX3230	Abrasive Blasting Respirator Hood



This is designed to protect the head, neck, and torso from abrasive rebound during abrasive blasting operation. The 88VX3230 has an assigned protection factor of 1,000 in lead environments. It's air flow is channeled directly to the worker's breathing zone for easy breathing.

Package Includes Hood (Complete), Breathing Air hose, & Cape.

Highlights

- Wide-angle face shield lens and headband suspension positioned for optimum visibility
- Translucent yellow helmet so workers don't experience a closed-in feeling
- Optional climate control assemblies can warm or cool incoming air to maximize comfort and improve productivity
- No fit testing
- Assigned Protection Factor (APF) of 1,000
- Available with a wide variety of capes



Applications

Abrasive Blasting
Painting and Coating Operations



This listing is just a small example of products available from **Canfield & Joseph**.
Please call for any specialty needs.



88VX Series Abrasive Blasting Helmet

Bullard Respirator Parts

88VXRT



771B

771020/771R0151



46VX



Part #	Description
46VX	28" Length Nylon Cape
13VX	36" Length Nylon cape
88VXBT	Breathing Tube
88CK	Breathing Tube Connector Kit
88VXTG	Adjustable Headband Suspension
88VXRT	Adjustable Ratchet Headband Suspension
99PL	Inner Shell/Air Plemun
88CS	Elastic Chin Strap for use with 99PL
G7713	Window Frame Gasket Only, Oval
88VXBAIL	88VX Latch Rail
88VXAK	Maintenance Kit
88VXUGK	88 Upgrade Kit to 88VX
771B	Acetate inner Lens (25/PK)
771020	.020 PETG Outer Lens (50/PK)
771R015	.015 PETG Out Lens (50/PK)
P771040	.040 PETG Oval Outer Lens (25/PK)

DC50



ISO2



Part # Description

DC50 Bullard Dual Cool Vest

Bullard DC50 Series provides superior cooling to Bullard respirators, while also sending cool air to the vest for upper torso cooling. The DUAL-COOL will cool incoming air from compressed breathing sources by as much as 30°F (17°C)

ISO2 Bullard Isotherm Cool Vest

Bullard Isotherm's phase-change technology maintains a constant, pre-set temperature that provides over two hours of effective cooling. Submerge Isotherm Cool Packs in the cooler with ice water for 20 minutes. They can be recharged thousands of times.

RESPIRATORS, FILTERS & AIR MONITORING

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Bullard Airline Filter & CO Monitor

41 Series Airline Filters

CO Monitors



41 Series Airline Filters

Air Distribution and Regulation

The 41 Series airline filters from Bullard provide six layers of filtration media to effectively trap water, oil, particulates, odors and organic vapors. The unit is available in a two or six outlet model for respirator use, and in a single outlet model to supply drier, cleaner air to tools and pneumatic systems. Constructed from heavy gauge steel, 41 Series Filters are built to withstand rugged industrial environments.

Carbon Monoxide Monitors

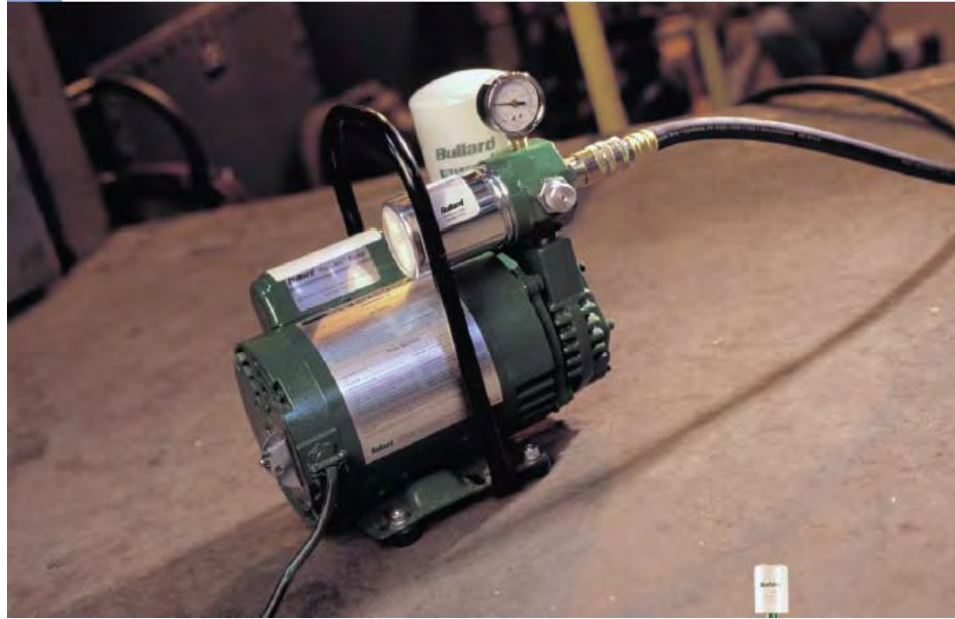
Continuous Monitoring for Carbon Monoxide

This compact, durable unit connects easily to any compressed breathing air source (connection kit included). The monitor is factory set to sound a 93 dB alarm when CO level exceeds 10 ppm, the OSHA limit. Monitors are also available with a CO alarm set point of 5 ppm to meet CSA and certain international requirements. External operation lights show green for normal and red for alarm for easy visual monitoring. An alarm jack to allow connection to remote alarm devices is standard. Monitors operate on 9-volt battery or 110-volt AC power. Backup batter power supply capability is standard on all units.





Bullard Free Air Pumps



RESPIRATORS, FILTERS & AIR MONITORING

Free-Air Pumps

Bullard Free-Air Pumps Low Cost, Clean, Breathable Air Source

Bullard Free-Air pumps offer an effective method to support workers in contaminated environments up to 300 feet away from the pump. Free-Air pumps are easy to operate and maintain, and do not require temperature alarms, CO monitors or airline filters. Power requirements are low, and operation is simple; just plug in, set appropriate pressure and go to work. Models range from one to ten worker support capacities, and a wide range of power source capabilities.



ADP20



EDP16TE



Bullard FAMB & Spectrum Series Respirators

Bullard FAMB Half-Mask



The Bullard FAMB Half-Mask respirator provides a continuous flow of air from high or low pressure air sources. The three sizes of silicone facepiece with dual exhalation valves provides comfort and appropriate fit for applications including painting, tank cleaning and welding. MSHA/NIOSH Approval TC-19C-155, Type C

Part #	Description	Size
10BFAMB30S	Bullard Half-mask respirator 1/4" industrial interchange constant flow fitting	small
10BFAMB30M	Bullard Half-mask respirator 1/4" industrial interchange constant flow fitting	medium
10BFAMB30L	Bullard Half-mask respirator 1/4" industrial interchange constant flow fitting	large
10BFAMB35M	Bullard Half-mask respirator 1/2" industrial interchange constant flow fitting - FAP Use	medium

Bullard Spectrum Series Full-Facepiece



The Bullard Spectrum Full-Facepiece Respirator's low profile design and optically correct lens provide a broad viewing area allowing for use in painting and inspecting applications. If your job requires positive pressure respirators in constant flow or pressure demand, the Spectrum will keep you covered. NIOSH Approval

TC-19C-322, Type C - Constant Flow

TC-19C-354, Type C - Pressure Demand

Spectrum Respirator Assemblies	
FOR USE WITH COMPRESSED AIR SYSTEMS	
Part #	Description
10BSPEC40L	Continuous flow, med/lrg face piece, adjustable flow valve & belt, 1/4" industrial interchange (<i>Hansen compatible</i>) nipple
10BSPEC40S	Continuous flow, small face piece adjustable flow valve & belt, 1/4" industrial interchange (<i>Hansen compatible</i>) nipple
FOR USE WITH AMBIENT AIR PUMPS	
10BSPEC35L	Continuous flow med/lrg face piece adjustable flow valve & belt 1/2" industrial interchange (<i>Hansen compatible</i>) nipple
10BSPEC35S	Continuous flow small face piece adjustable flow valve & belt 1/2" industrial interchange (<i>Hansen compatible</i>) nipple



Bullard Work Systems

RESPIRATORS, FILTERS & AIR MONITORING

Applications



Industry	Spectrum Series	FAMB Series	88VX Series	CC20 Series	GR50 Series	EVA Series	PA20 Series	PA30 Series	PA301S Series	PA40 Series
Painting	x	x	x	x	x	x				
Chemical Handling	x	x		x	x	x	x	x	x	x
Abrasive Blasting			x							
Grinding					x	x				
Healthcare				x		x	x	x		
Pharmaceutical				x		x	x	x		

Bullard offers totally configured work systems for use in a wide variety of applications-from painting and abrasive blasting to pharmaceutical and chemical manufacturing. Everything you need for effective respiratory protection is provided in one complete package.



Spectrum Series
SPECLSYS



FAMB Series
FAMBSYS



88VX Series
88VXSYS



CC20 Series
CC20SYS



GR50 Series
GR50SYS

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Ft. Worth, TX
800-480-8957



PROTECTIVE WEAR



BLAST SUITS

PART #	DESCRIPTION
22916	Clemco Light Weight Seasonal Blast Suit
08923	Clemco Heavy Duty Blast Suit
5050/MPR	CJ Red Nylon Blast Suit
5050/MBP	CJ Blue Nylon Blast Suit
5050/MP	CJ Red Leather Blast Suit
07-755	RPB Light Weight Blast Suits

Light Weight Blast Suit

Protects the operator from the impact of rebounding abrasive. Represents a cost effective alternative to an industrial suit for occasional or short term blasting, and for nearby personnel.

Heavy Weight Blast Suit

Heavy-duty blast suit and gauntlet-style leather gloves protect the blast operator from the impact of rebounding abrasive. Heavy cotton fabric on back of suit allows air to circulate, while fronts of arms and legs are protected by leather panels. Straps at cuffs adjust to fit, keeping out dust and abrasive. The red color stands out in a blast environment. It is lighter in weight than all-leather or all-rubber suits.



BLAST GLOVES

PART #	DESCRIPTION
3018	Gum Rubber Cotton Lined Blast Glove
07-701	RPB Double Palmed Leather Blast Glove
02243	Clemco Leather Blast Gloves

This listing is just a small example of products available from **Canfield & Joseph**. Please call for any specialty needs.



PROTECTIVE WEAR

PERSONAL SAFETY



#NV05-601

#NV05-602



Head Socks

PART #	DESCRIPTION
NV05-601	Headsock Packs of (10) One Size Fits All
NV05-602	Spray Hood Packs of (10) One Size Fits All

#HY8810

#HY8812

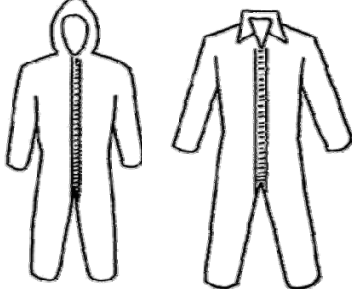


Particulate Respirator

PART #	DESCRIPTION
HY-8810	Respirator (20) pack NIOSH Approved N95
HY8812	Valved Respirator (10) pack NIOSH Approved N95

#TY127S

#TY125S

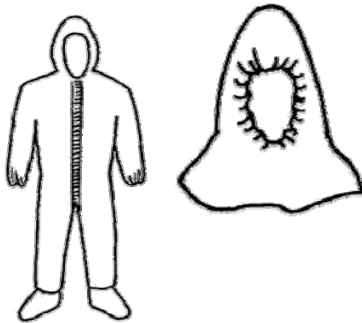


Tyvek® Disposable Clothing

PART #	DESCRIPTION
TY127S	Coverall w/zipper front, attached hood w/ elastic around face, elastic wrists and ankles
TY125S	Coverall w/zipper front and collar. Elastic around wrists and ankles.
TY122S	Coverall w/zipper front, skid resistant boots and attached hood. Elastic around hood and wrists.
TY657S	Hood, pullover design, elastic face opening, covers shoulders.
TY450S	Shoe cover, elastic top, 5" high
TY454S	Boot cover, elastic top, 18" high

#TY122S

#TY657S



#TY450S








#TY454S



This listing is just a small example of products available from Canfield & Joseph. Please call for any specialty needs.



PERSONAL SAFETY ITEMS

<u>PART#</u>	<u>DESCRIPTION</u>
 #LL-1  #LL-30	<p>LL-1 Laser-Lite®, uncorded, disposable earplugs 220 pair per box</p> <p>LL-30 Laser-Lite®, corded, disposable earplugs 100 pair per box</p>
 #MAX-30  #MAX-1	<p>MAX-30 Max®, corded, disposable earplugs 100 per box</p> <p>MAX-1 Max®, uncorded, disposable earplugs 100 per box</p>
 #AS-1  #AS-30R  #AS-30W	<p>AS-1 Air-soft®, uncorded, multi use earplugs, 50 pair per box</p> <p>AS-30R Air-soft®, corded, multi use earplugs, 50 pair per box</p> <p>AS-30W Air-soft®, corded, multi use earplugs, 50 pair per box, White nylon cord</p>



18-221 RPB SAFETY GLASSES

Part # NV18-221-C

Part # NV18-221-S

- ◆ 9 Base lens offers wrap around protection
- ◆ Rimless for light weight comfort and increased vision
- ◆ Anti-scratch coated lenses

- ◆ Anti-scratch coated lenses
- ◆ Metal Free
- ◆ Meet ANSI-Z87.1 2010 safety standard



18-241 RPB PLUS SAFETY GLASSES

Part # NV18-241-C

Part # NV18-221-S

- ◆ 9 Base lens offers wrap around protection
- ◆ Rimless for light weight comfort and increased vision
- ◆ Anti-scratch coated lenses

- ◆ Soft temple grips
- ◆ Metal-free
- ◆ Meet ANSI-Z87.1 2012 safety standard



18-261 RPB ULTRA SAFETY GLASSES

Part # NV18-261-C

Part # NV18-261-S

- ◆ Dual 9 Base Lenses designed for close fit
- ◆ Ventilated and adjustable nose pad for extra comfort
- ◆ Unobtrusive side frame for increased peripheral vision
- ◆ Anti scratch coated lenses

- ◆ Side arm sleeves for added temple grip
- ◆ Metal-free
- ◆ Meet ANSI-Z87.1 2010 safety standard

This listing is just a small example of products available from Canfield & Joseph.
Please call for any specialty needs.

PERSONAL SAFETY ITEMS

3M™ RESPIRATORS



3M™ Facepieces 6000 Series Reusable

3M™ 6000 Series **Half-Mask Respirators** in small, medium and large sizes. The 6000 Series mask is a versatile, non-air-supplied respirator featuring a silicone/rubber blend sealing surface and rigid thermoplastic nose cup providing a reusable respirator that is easy to maintain.

3M™ 6000 Series **Full-Face Respirators** in small, medium and large sizes. The 6000 Series mask is a versatile, non-air-supplied respirator featuring a silicone/rubber blend sealing surface and large replaceable lens providing a reusable respirator that is easy to maintain



3M™ Respirators 5000 Series Disposable

Ideally suited for intermittent respirator wearers. These half mask respirators are manufactured with permanently attached cartridges for ease of use and little or no maintenance. Use against a variety of gases and vapors according to NIOSH approvals.

3M Cartridges & Pre-Filters

Select the appropriate Pre-filter and Cartridge System for your application. Determine the atmosphere of your job and select the correct Pre-filter and Cartridges.



3M Cartridges & Pre-Filters		
Part #	Description	U.O.M.
303M6001	Organic Vapor Cartridge - 6000 Series	pair
303M6003	OV/Acid Gas Cartridge - 6000 Series	pair
303M2091	Particulate Filter P100 - 5000/6000 Series	pair

This listing is just a small example of products available from Canfield & Joseph. Please call for any specialty needs.

PERSONAL SAFETY

Kansas City, KS
800-933-3643

Davenport, IA
800-513-9857

Tulsa, OK
800-364-5452

Houston, TX
877-905-0526

St. Louis, MO
800-513-9857

Ft. Worth, TX
800-480-8957





Blasting Card Data

Nozzle	No. 4	No. 5	No. 6	No. 7	No. 8
Orifice Size	1/4	5/16	3/8	7/16	1/2
CFM @ 100 psi	90	150	200	270	350
Airhose Size	1 1/4	1 1/4	1 1/2	1 1/2	2
Blast Hose	1	1 1/4	1 1/4	1 1/2	1 1/2
Lbs. Per Hour	560	900	1260	1750	2250
Surface Condition	Square Feet Per Hour				
White Metal					
Loose Mill Scale	61	102	145	200	250
Tight Mill Scale	50	84	121	164	211
Pitted Paint	32	50	71	100	125
Multicoats	25	40	58	80	100
Near White					
Loose Mill Scale	65	106	150	210	266
Tight Mill Scale	55	50	125	132	220
Pitted Paint	34	55	75	104	132
Multicoats	25	44	60	84	106
Commercial					
Loose Mill Scale	155	255	360	436	632
Tight Mill Scale	102	170	240	320	420
Pitted Paint	75	128	181	246	316
Multicoats	50	85	120	185	210
Brush					
Loose Mill Scale	310	508	720	990	1264
Tight Mill Scale	310	508	720	990	1264
Pitted Paint	310	508	720	990	1264
Multicoats	310	508	720	990	1264

All figures are approximate



PORTABLE BLAST POTS



BLAST POTS & ACCESSORIES

Package A

Package B

Package C

1.5
cuft

Package "A"
Portable blaster with 1" piping, pneumatic remote controls, ComboValve, MicroValve, 55ft Twinline control hose, Deadman control and moisture separator. (130 pounds)

Package "B"
Includes package "A" PLUS 50ft 3/4" blast hose with coupling, nozzle holder and 3/16" Silicon Nitride long venturi nozzle. (175 pounds)

Package "C"
Includes package "B" PLUS Nova 2000 NIOSH approved respirator, 50ft air supply hose kit and Radex airline filter. (215 pounds)

3.5
cuft

Package "A"
Portable blaster with 1" piping, pneumatic remote controls, ComboValve, MicroValve, 55ft Twinline control hose, Deadman control and moisture separator. (240 pounds)

Package "B"
Includes package "A" PLUS 50ft 3/4" blast hose with coupling, nozzle holder and 3/16" Silicon Nitride long venturi nozzle. (285 pounds)

Package "C"
Includes package "B" PLUS Nova 2000 NIOSH approved respirator, 50ft air supply hose kit and Radex airline filter. (325 pounds)

6.5
cuft

Package "A"
Portable blaster with 1-1/4" piping, pneumatic remote controls, ComboValve, MicroValve, 55-foot Twinline control hose, Deadman control and moisture separator. (390 pounds)

Package "B"
Includes package "A" PLUS 50ft 1" blast hose with coupling, nozzle holder and 5/16" Silicon Nitride long venturi nozzle. (430 pounds)

Package "C"
Includes package "B" PLUS Nova 2000 NIOSH approved respirator, 50ft air supply hose kit and Radex airline filter. (485 pounds)

*Vessel Lid & Screen available (sold separately)

Kansas City, KS
800-933-3643

Davenport, IA
800-513-9857

Tulsa, OK
800-364-5452

Houston, TX
877-905-0526

St. Louis, MO
800-513-9857

Ft. Worth, TX
800-480-8957

CANFIELD &
JOSEPH, INC.

PORTABLE BLAST POTS



BLAST POTS & ACCESSORIES

“Mini” M-Series® Blaster

The Versatile Mini Blaster



.09 CF Media

MMB Performance and Specifications

- .09 C.F. ASME Section VIII, Div. 1 vessel
- 10" Round Vessel
- 1/8" Nozzle only Requires 13 CFM of Air at 60psi
- Low Carbon Steel Construction
- 125 PSIG Maximum Allowable Pressure
- Manual Pop-up Valve w/Chain
- Manual 1/4" Blowdown Valve
- Portable Vessel with Wheels and Single Pipe Handle
- Water Connection at Vessel Leg
- 3/32" Perforation Recessed Screen s/Seal
- Vessel Lid w/Handle
- Minivalve Abrasive on/off Control w/Multiport
- 3/4" AAV Blast Air Control Valve
- 3/4" Air Regular
- 3.4" Air Filter
- 25ft Twinline w/Swivel Connections and 1/4" Water Line
- G2 Pneumatic Deadman Valve
- 25 ft of 3/4" Blast Hose w/50mm Nozzle Holder Optional
- Blast Nozzles Optional
- Dimensions: Only 10" Round, 37" (940 mm) in Height

The .09 M-Series blaster is perfect for small auto body restoration and the professional pool cleaner who has at least 22 cubic feet per minute of compressed air. This positive pressure blaster comes equipped with a 25 foot blast hose, twinline and G-2 deadman handle.

The .09 M-Series blaster has a total weight of 76 lbs. empty

PORTABLE BLAST POTS



M-Series Multi-Media Blaster

Portable M-Series® Multi Media Blaster, 150psi rated vessel with integrated load skid, media vibrator, ball valve w/sanitary clamp, lid and screen. Normally closed pneumatic remote controls including Thompson Valve® II with clean-out feature regulated piping with check valve (GSV), G2 Deadman® control with 55' water line with wet blast attachment. Blaster equipped with stainless steel panel and gauges. Gauge panel includes: Differential Blast, Tank pressure and Blast pressure (Blast hose and nozzle sold separately).

M-11 1.5 cu. ft. (42 liter), 1" piping, no bypass
(22" W x 33" L x 48" H)
(approx. shipping weight: 140 lbs.) (Part No. 8720-011)

M-21 2.0 cu. ft. (56 liter), 1 ¼" piping, with bypass
(24" W x 33" L x 50" H)
(approx. shipping weight: 160 lbs.) (Part No. 8720-021)

M-31 3.0 cu. ft. (85 liter), 1 ¼" piping, with bypass
(24" W x 33" L x 56" H)
(approx. shipping weight: 400 lbs.) (Part No. 8720-031)



The M-Series is a mid size blaster that has wide range of capabilities. From cleaning surface grease and oil to striping rust or paint, the M-21 can achieve any surface profile. Its controls are so precise that it is able to remove paint from a light bulb. The M-21 has a greater weight distribution for easier handling and an overall height of 43" which allows for easier filling. Our newly engineered chassis makes accessing the Thompson Valve® II a breeze.

BLAST POTS & ACCESSORIES



SCHMIDT PORTABLE BLASTER

Combo Valve - MV2 Electric Controls

ComboValve® - MV2® Electric Controls, 3.5 to 10 cu. ft. Vessels

Part numbers and descriptions are shown below for the 3.5 to 10 cubic foot vessels with 1", 1 1/4", or 1 1/2" piping and manual blowdown. Where three sets of part numbers are listed, the first is for 1" piping, the second (*italic>*) is for 1 1/4" piping and the third (**bold>**) is for 1 1/2" piping. For additional information please refer to the Abrasive Blasters Operation and Maintenance Manual.

8404-000-95:Control Valve Assembly w/fitings & Vent, 12VDC

2301-902-90:Strainer, 1/4"

2013-402:Dust Eliminator, 1/4"

2229-100:Control Valve, Electric, 12VDC

7109-301:Male Plug, 3-prong twist-lock

7112-000:Junction Tee Assembly, 12VDC

7109-300:Female Connector, 3-prong twist-lock

4115-005:Blowdown hose assy, 18" (3.5 and 6.5 cf)
4115-005-02:Blowdown hose assy, 24" (10 cf)

2223-000 Combo Valve

2014-300:Breather Vent, 1/8"

4208-106:Crowfoot, 1" 2-lug w/gasket
4209-999:Gasket
4211-107:Crowfoot, 1 1/4" 4-lug w/gasket
4211-999:Gasket
4211-108:Crowfoot, 1 1/2" 4-lug w/gasket
4211-999:Gasket

2401-506:Air Inlet Ball Valve, 1"
2401-507:Air Inlet Ball Valve, 1 1/4"
2401-508:Air Inlet Ball Valve, 1 1/2"

1200-006:Moisture Separator, 1"
1200-007:Moisture Separator, 1 1/4"
1200-008:Moisture Separator, 1 1/2"

2127-107:MV2 1 1/4"
2127-108:MV2, 1 1/2"

2401-506:Choke Ball Valve, 1"
2401-507:Choke Ball Valve, 1 1/4"
2401-508:Choke Ball Valve, 1 1/2"

4205-106:Swivel Insert, 1" w/gasket
4205-406-99: Insert Gasket
4205-107: Swivel Insert, 1 1/4" w/gasket
4205-107-99:Insert Gasket
4205-108: Swivel Insert, 1 1/2" w/gasket
4205-108-99:Insert Gasket

2401-502:Drain Ball Valve, 1/4"

4235-006:Hose Clamp, 1"
4235-007:Hose Clamp, 1 1/4"
4235-008:Hose Clamp, 1 1/2"

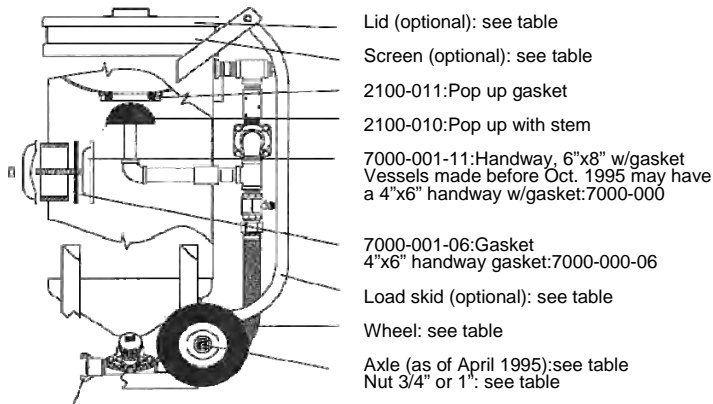
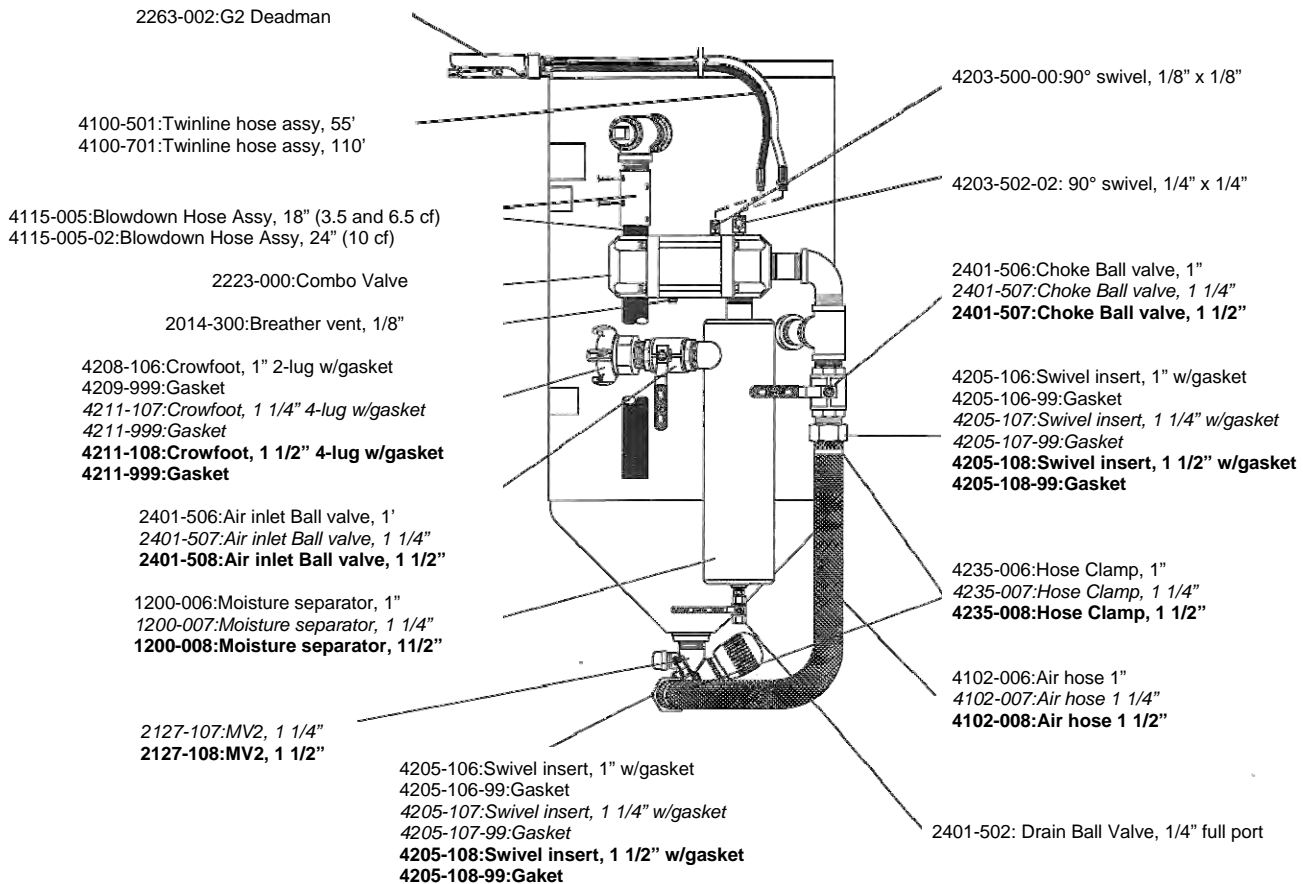
BLAST POTS & ACCESSORIES

SCHMIDT PORTABLE BLASTER

Combo Valve - MV2 Pneumatic Controls

Combo Valve® - MV2® Pneumatic Controls, 3.5 to 10 cu. ft. Vessels

Part numbers and descriptions are shown below for the 3.5 to 10 cubic foot vessels with 1", 1 1/4", or 1 1/2" piping and manual blowdown. Where three sets of part numbers are listed for 1" piping, the second (*italics>*) is for 1 1/4" piping and the third is (**bold>**) for 1 1/2" piping. For additional information please refer to the Abrasive Blasters Operation and Maintenance Manual.



4214-108-01:Threaded Coupling, 1 1/4" w/gasket
4214-999:Coupling Gasket

ITEM	3.5 CU FT	6.5 CU FT	10 Cu FT
Wheel	7046-003	7046-006	7046-006
Axle	7040-003	7040-006	7040-006
Nut (3/4", 1", 1")	7019-519	7019-527	7019-527
Loading Skid	7002-003	7002-006	7002-010
Lid	5010-030	5010-060	5010-060
Screen	5011-030	5011-060	5011-060

BLAST POTS & ACCESSORIES

Kansas City, KS
800-933-3643

Davenport, IA
800-513-9857

Tulsa, OK
800-364-5452

Houston, TX
877-905-0526

St. Louis, MO
800-513-9857

Ft. Worth, TX
800-480-8957

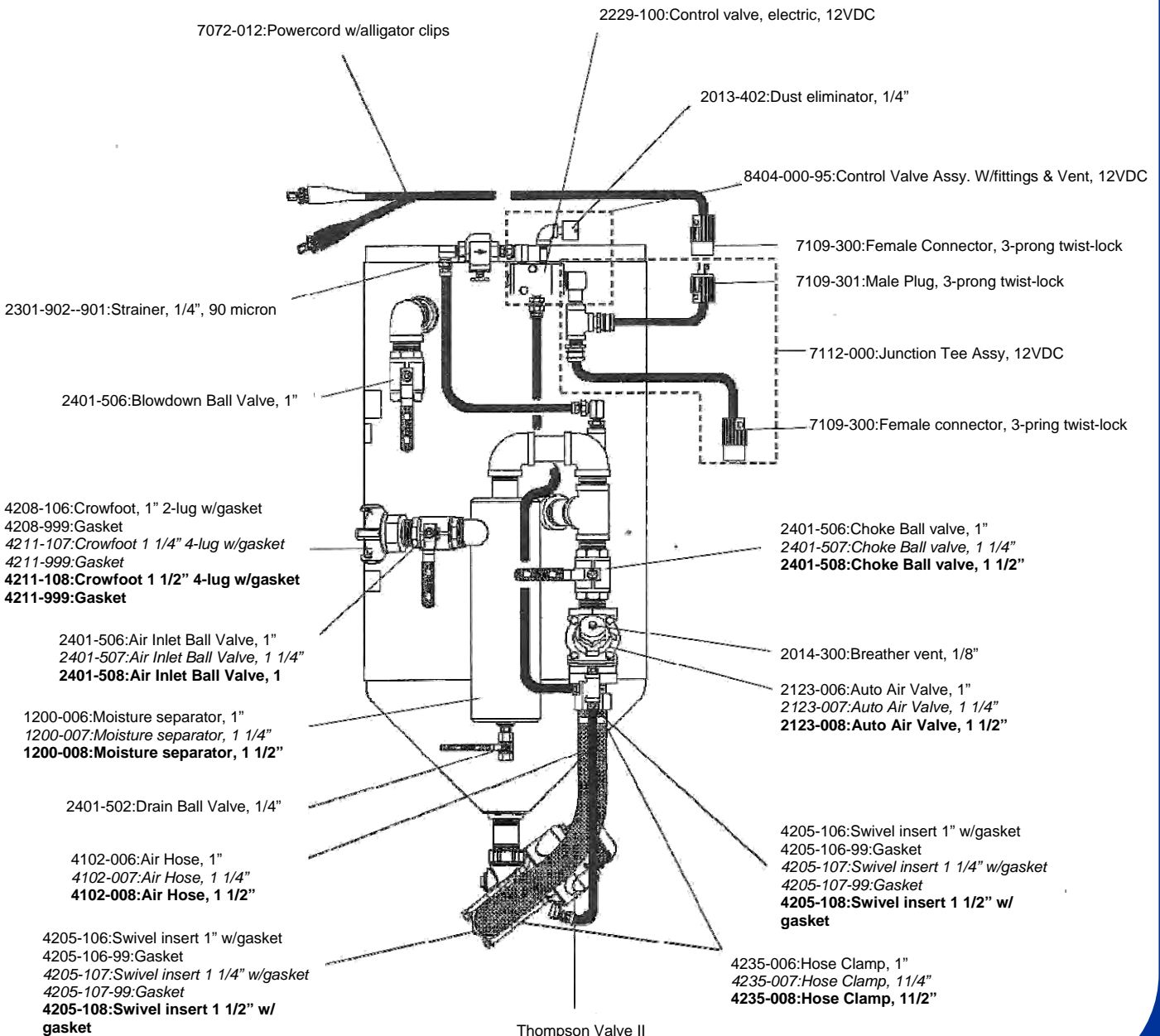
CANFIELD &
JOSEPH, INC.

SCHMIDT PORTABLE BLASTER

Thompson II Valve - Electric Controls

Thompson II Valve – Electric Controls

Part numbers and descriptions are shown below for the 3.5 to 10 cubic foot vessels with 1", 1 ¼", or 1 ½" piping and manual blowdown. Where three sets of part numbers are listed, the first is for 1" piping, the second (*italic*) is for 1 ¼" piping and the third (**bold**) is for 1 ½" piping. For additional information please refer to the Abrasive Blasters Operation and Maintenance Manual.



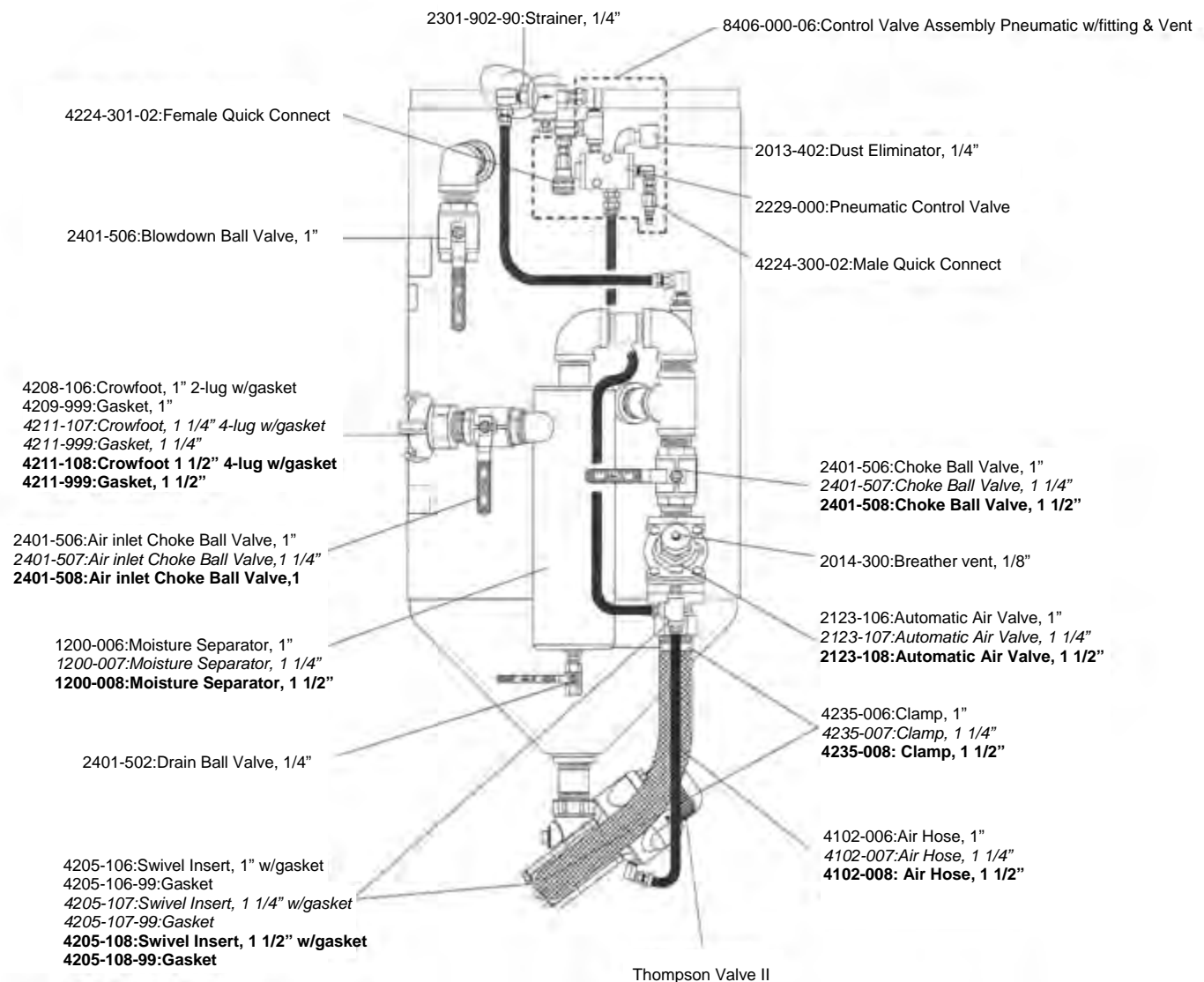
BLAST POTS & ACCESSORIES

SCHMIDT PORTABLE BLASTER

Thompson II Valve - Pneumatic Controls

Thompson II Valve – Pneumatic Controls

Part numbers and descriptions are shown below for the 3.5 to 10 cubic foot vessels with 1", 1 ¼", or 1 ½" piping and manual blowdown. Where three sets of part numbers are listed, the first is for 1" piping, the second (*italic*) is for 1 ¼" piping and the third (**bold**) is for 1 ½" piping. For additional information please refer to the Abrasive Blasters Operation and Maintenance Manual.



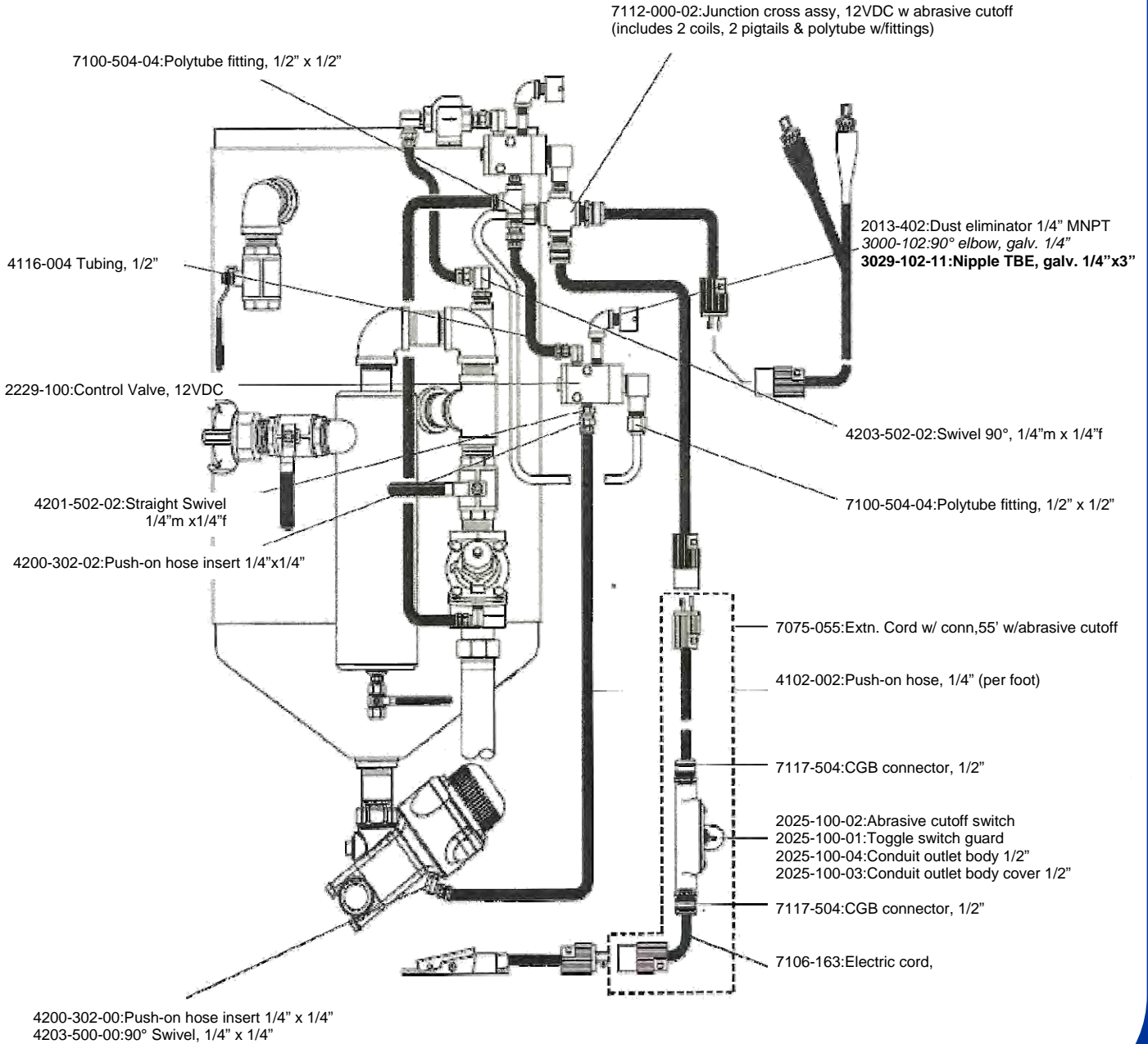
BLAST POTS & ACCESSORIES

SCHMIDT PORTABLE BLASTER

Remote Abrasive Cutoff—Electric Controls

Remote Abrasive Cutoff Electric Controls, 1.5 to 20 cu. ft. Vessels

Part numbers and descriptions are shown below for the remote abrasive cutoff option for small pots with electric controls (1.5 to 20 cu. ft. vessels).



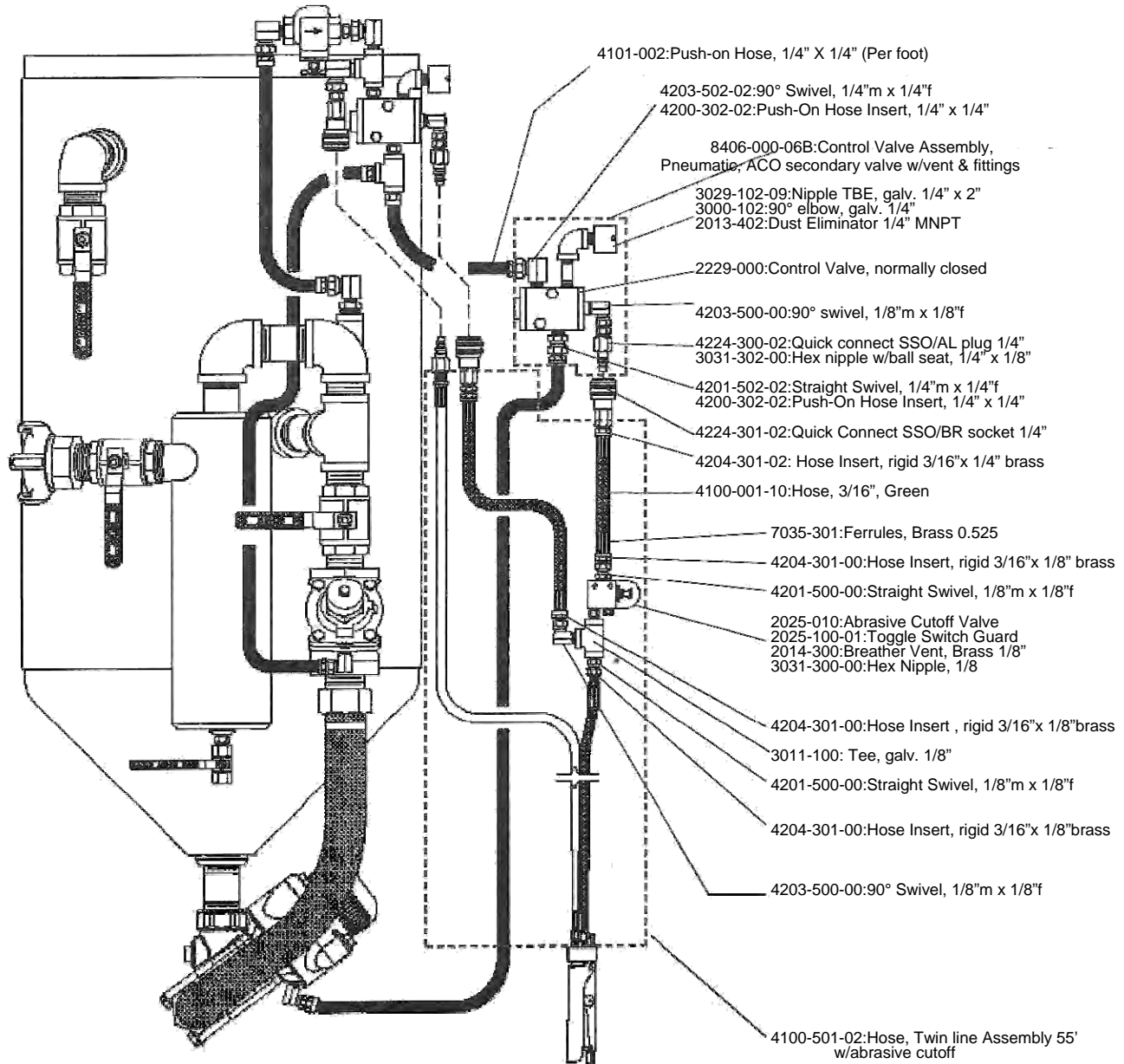
BLAST POTS & ACCESSORIES

SCHMIDT PORTABLE BLASTER

Remote Abrasive Cutoff—Pneumatic Controls

Remote Abrasive Cutoff Pneumatic Controls, 1.5 to 20 cu. ft. Vessels

Part numbers and descriptions are shown below for the remote abrasive cutoff option for small pots with pneumatic controls (1.5 to 20 cu. ft. vessels).




BLAST POTS & ACCESSORIES

BLAST POTS & ACCESSORIES

Valves make the difference

MV2-Microvalve Comparison

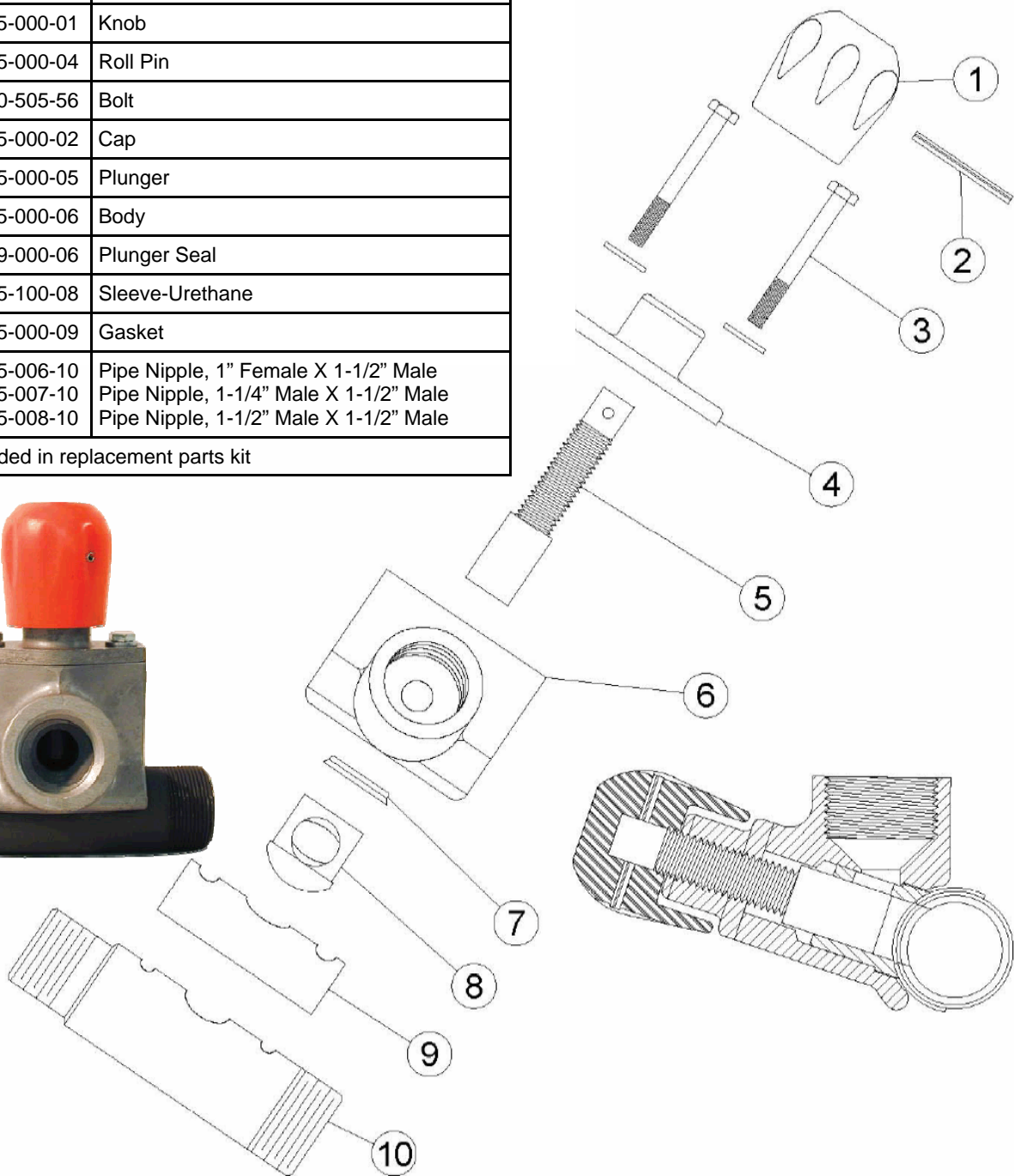
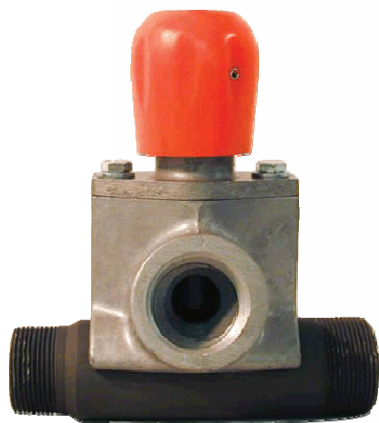
Features	Microvalve	MV2	MV2 Benefits
Construction/Design			
Body	Aluminum	Carbon Steel	 <p>Extends valve life, especially when using aluminum oxide and other highly abrasive media</p>
Base/Nipple	Carbon steel	High strength steel	
Bolt holes	Not Sealed	Isolated	
Internal bypass line	No	Yes	
Knob	Pin fastened	Integrated	
Media connection	1-1/4 female thread	1-1/4 male thread	Eliminates potential air leaks around bolts
			Extends valve life and improves abrasive flow
			Simplifies assembly and disassembly
			Eliminates need for close nipple fitting
Metering/Abrasive Flow			
Abrasive flow rate	Normal	High	Flows more abrasive (up to twice depending on type of abrasive)
Virtual Position Indicator (VPI)	No	Yes	Simplifies setting and maintaining consistent media flow rate. Provides visual feedback.
Knob adjustment	Yes	Yes (Large)	Easy to use and more compact than other types of handles Large knob for easier grip and adjustments.
Maintenance			
Cleanout port	No	Yes	Clear obstructions without removing or disassembling valve
Access necessary for maintenance	Top & Bottom	Bottom	Easy access and fewer components shortens time to rebuild
Body bolt	5/16" x 3 1/4"	3/8" x 1"	Simplifies disassembly and reassembly



SCHMIDT VALVES

Schmidt Micro Valve

	2125-106	1" Micro Valve with Urethane Sleeve
	2125-107	1-1/4" Micro Valve with Urethane Sleeve
	2125-108	1-1/2" Micro Valve with Urethane Sleeve
No.	Part No.	Description
	2125-100-99	Replacement Parts Kit w/ Urethane Sleeve
1.	2125-000-01	Knob
2. *	2125-000-04	Roll Pin
3.	7010-505-56	Bolt
4.	2125-000-02	Cap
5. *	2125-000-05	Plunger
6.	2125-000-06	Body
7. *	2149-000-06	Plunger Seal
8. *	2125-100-08	Sleeve-Urethane
9. *	2125-000-09	Gasket
10.	2125-006-10	Pipe Nipple, 1" Female X 1-1/2" Male
	2125-007-10	Pipe Nipple, 1-1/4" Male X 1-1/2" Male
	2125-008-10	Pipe Nipple, 1-1/2" Male X 1-1/2" Male
* Included in replacement parts kit		



BLAST POTS & ACCESSORIES

SCHMIDT VALVES

Schmidt Micro Valve II (MV2)

MV 2

“The MV2 is Your Performance MVP”

Reliable, state-of-the-art abrasive metering technology



- New virtual Position Indicator (VPI) allows a user friendly interface for precise and consistent abrasive flow
- Higher controlled abrasive flow rate
- Using the cleanout, obstructions can be cleared without removing valve from blast vessel
- Components made from durable, abrasive resistant materials
- Uses the same plunger seal as the rugged Thompson Valve II
- Has fewer components
- Easy plunger removal and installation – no drive pin
- Can be rebuilt while mounted on blast vessel
- Alignment bosses on the base make reassembly a snap
- Pressure bypass improves abrasive flow and reliability

The MV2 brings new technology and new design features to the popular Micro Valve. These truly innovative features make it more productive and easier to maintain.

“Valves Make the Difference”

SCHMIDT VALVES

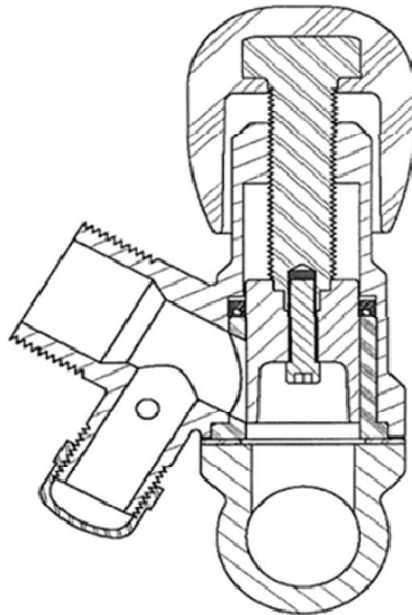
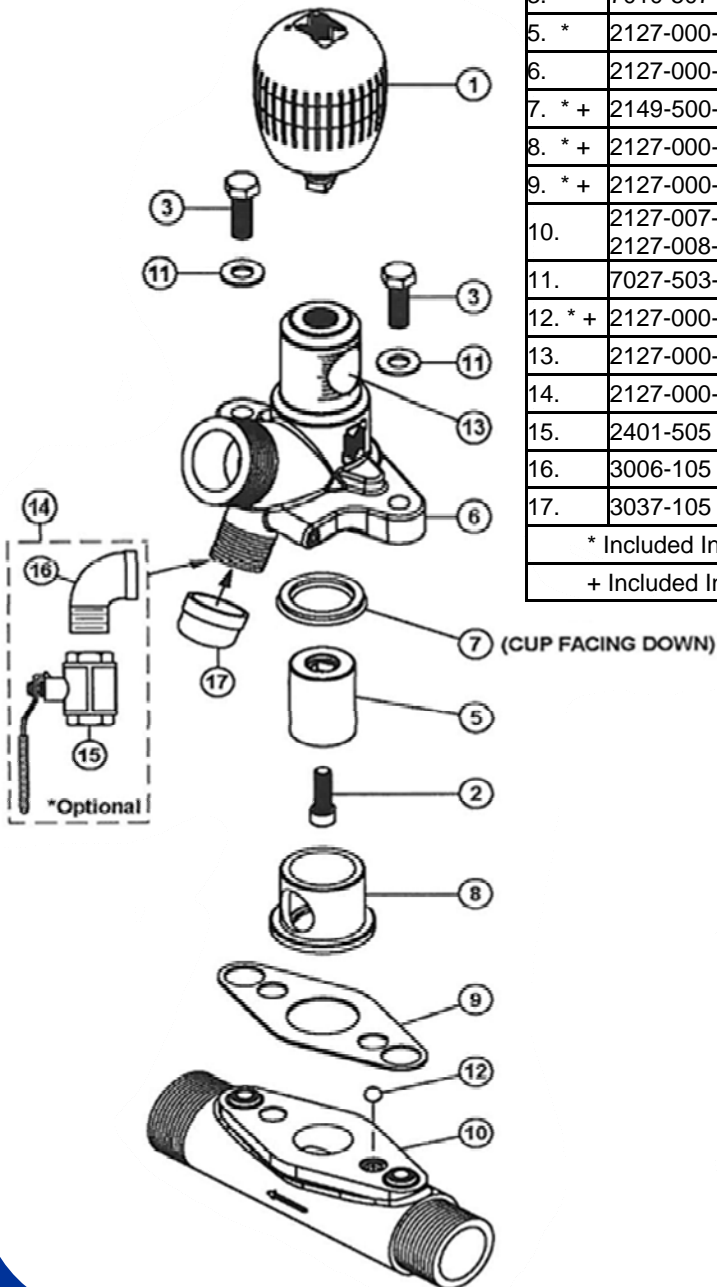
Schmidt Micro Valve II (MV2)

BLAST POTS & ACCESSORIES

Notes:

1. A 1-1/4" MV2 with a reducing elbow is used in 1" piping systems.
2. Hex bolts (item 3) should be torqued to 30-35ft. Lbs.

No.	Part No.	Description
	2127-107	MV2 Valve Assembly, Urethane 1-1/4" & 1
	2127-108	MV2 Valve Assembly, Urethane 1-1/2"
	2127-100-98	Replacement Parts Kit, Seals Only
	2127-100-99	Replacement Parts Kit
1.	2127-000-01	Knob
2. *	7011-005-060	Socket Head Cap Screw, 5/16" X 1" Lg. Self Sealing
3.	7010-507-06	Hex Bolt, 3/8" X 1" Lg.
5. *	2127-000-05	Plunger
6.	2127-000-06	Body
7. * +	2149-500-06	Plunger Seal
8. * +	2127-000-08	Polyurethane Sleeve
9. * +	2127-000-15	Gasket
10.	2127-007-10	Base, 1-1/4"
	2127-008-10	Base, 1-1/2"
11.	7027-503-02	Flat Washer, 3/8"
12. * +	2127-000-12	Ball
13.	2127-000-13	Orifice Indicator Decal
14.	2127-000-14	Cleanout Ball valve Adder
15.	2401-505	Ball Valve, 3/4" Full Port
16.	3006-105	Street Elbow 90°, 3/4 Galv.
17.	3037-105	Pipe Cap, 3/4" Galv.
* Included In Replacement Parts Kit		
+ Included In Replacement Parts Kit, Seals Only		



BLAST POTS & ACCESSORIES

Valves make the difference Thompson Valve® Comparison

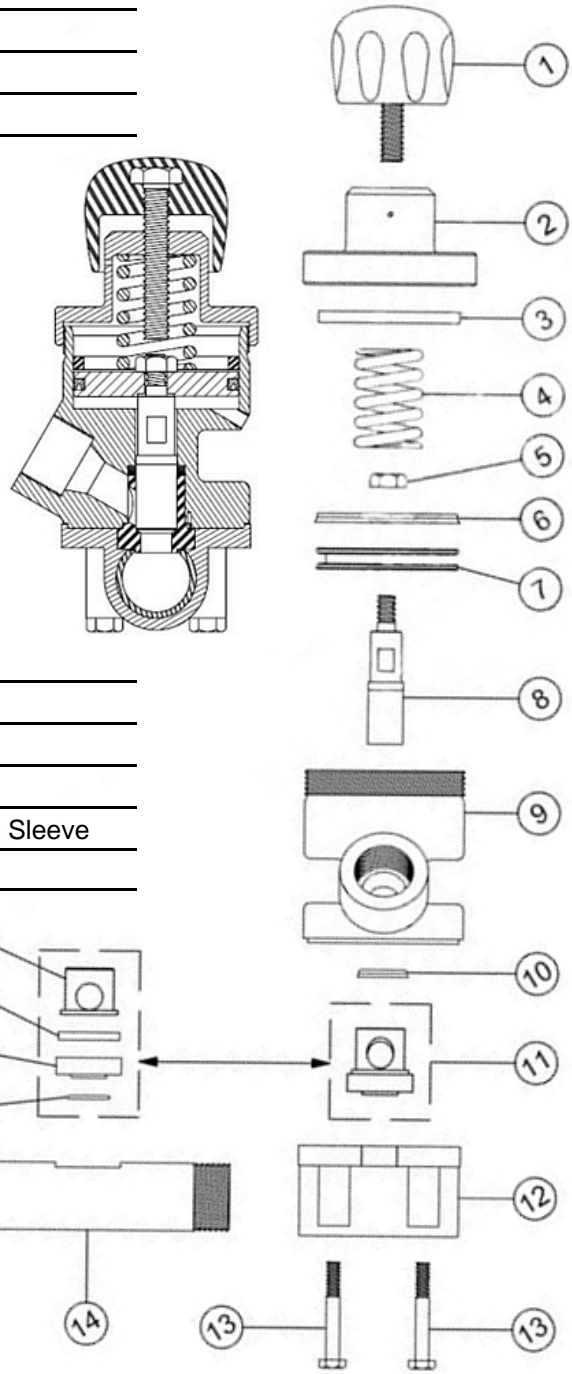
Thompson Valve® II	Thompson Valve®	Other Competitors Imitations	Compare Features & Benefits
Yes	Yes	No	One knob precisely controls abrasive media flow
Yes	No	No	Notches on spring retainer provide more precise and consistent metering capabilities, serving as an indicator
Yes	Yes	No	Standard urethane sleeve for normal operation or optional tungsten carbide sleeve for extended life
Yes	No	No	Design minimizes air turbulence in the mixing chamber providing even flow distribution
Yes	No	No	O-ring on sleeve prevents media entrapment, reduces sliding friction
Yes	Yes	Yes	Orifice is sized for precise metering of abrasive media
Yes	Yes	Yes	Rugged, non-corrosive body
Yes	No	No	Base and nipple are integrated into a single piece and are constructed of high strength hardened carbon steel. Eliminates need for insert and O-ring
Yes	No	No	Seat placed in body allows for easier removal during service
Yes	No	No	Larger seat allows for better media flow into the air stream. A shallower seat angle prevents media from being trapped under the plunger, extending part life
Yes	No	No	Middle section is separate from cylinder to provide easier removal of sleeve, plunger seals and seat during service
Yes	No	No	Full one inch clean-out placed directly under inlet provides easy removal of unwanted material
Yes	Option Only	No	Antivibration disk (standard) prevents knob from backing out during use
Yes	No	No	Two fine micron breather vents in cap prevent dust from entering the piston chamber
Yes	No	No	Spring is preloaded with spring retainer. Allows for easy spring replacement
Yes	No	No	Redesigned spring provides longer life
Yes	No	No	Sloped piston allows unwanted dirt and moisture in the cylinder to drain away from critical areas and threads
Yes	No	No	Flats on the inlet ease attachment of valve to tank
Yes	No	No	Bolt-on cap provides easier service access to piston and piston seal
Yes	Yes	No	LARGE BORE OPTION - The TVII offers an easy upgrade for increased abrasive flow



SCHMIDT VALVES

Schmidt Thompson Valve I

No.	Part No.	Description
	AX2149-000-99	Replacement Part Kit With Tungsten Carbide Sleeve
	AX2149-100-99	Replacement Part Kit With Urethane Sleeve
1	AX2149-000-01	Knob
2	AX2149-000-02	Cap
3	AX2149-000-19	Bump Ring
4	AX2149-000-03	Spring
5	AX2149-000-08	Nut
6*+	AX2149-000-04	Piston Seal
7	AX2149-000-05	Piston
8*+	AX2149-000-07	Tungsten Carbide Plunger
9	AX2149-000-09	Cylinder
10*+	AX2149-000-06	Plunger Seal
11 +	AX2149-100-13	Urethane Sleeve
12	AX2149-000-11	Base
13	AX7010-507-55	Bolt
14	AX2149-006-15	Pipe Nipple 1" X 8"
	AX2149-007-15	Pipe Nipple 1-1/4" X 8"
	AX2149-008-15	Pipe Nipple 1-1/2" X 8"
15*	AX2149-000-18	O-Ring
16*	AX2149-000-14	Insert
17*	AX2149-000-10	Seat
18*	AX2149-000-13	Tungsten Carbide Sleeve
		* Included In Replacement Part Kit For Tungsten Carbide Sleeve
		+ Included In Replacement Part Kit For Urethane Sleeve



BLAST POTS & ACCESSORIES

SCHMIDT VALVES

Schmidt Thompson II Valve

Thompson Valve II

“The Ultimate in Metering Performance”

Highest Level of Performance, Enhanced Serviceability and Longer Life



- The ultimate in metering performance with larger aperture
- Fail-safe valve shuts off abrasive flow to the nozzle and seals the vessel at the same instant
- Smooth response to either pneumatic or electric deadman controls
- Easily adapted to most existing ASME blast systems
- Ideal for multiple outlet use
- Remote abrasive cutoff is available allowing the operator to stop the flow of media while continuing a constant flow of air so abrasive can be cleared from the blast hose.
- Using the cleanout, obstructions can be cleared without removing valve from blast vessel
- Breather vents, redesigned spring and triple plunger seals add to the life of the Thompson Valve II
- Multiple design features for ease of service

Building on the original market leading Thompson Valve, the Thompson Valve II offers an even higher level of performance and serviceability. It is the metering valve of choice for abrasive blasting professionals.

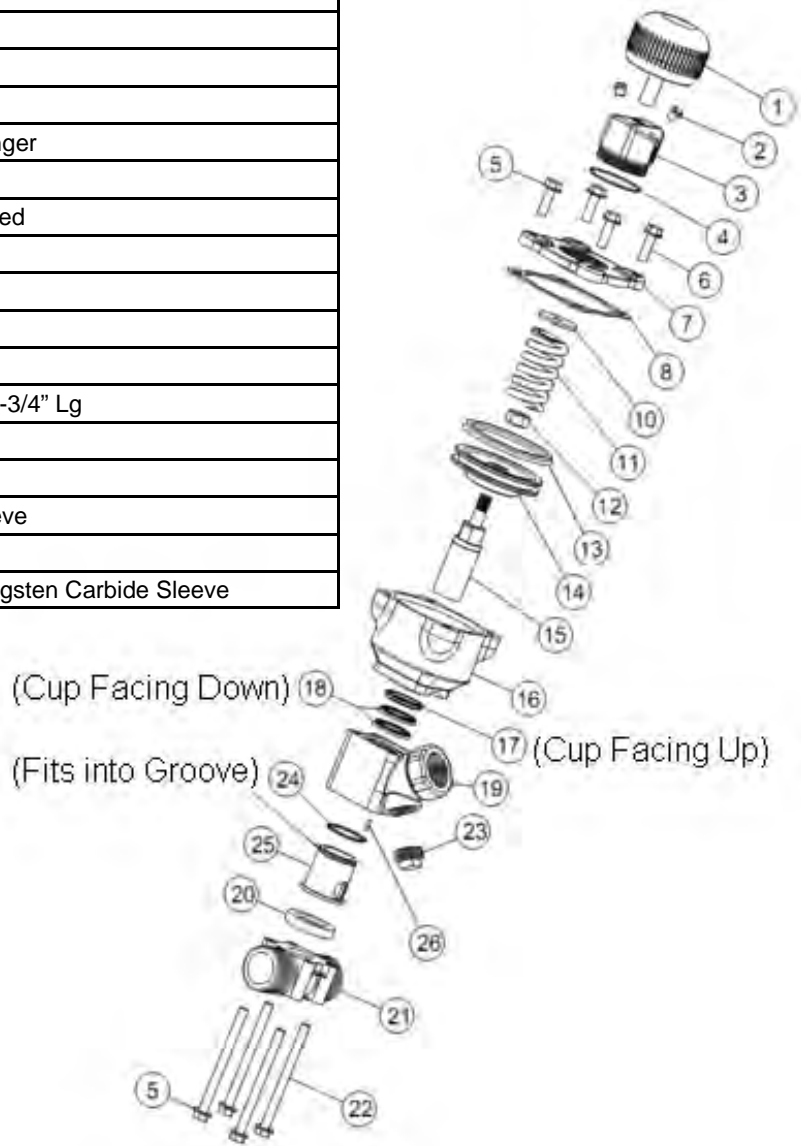
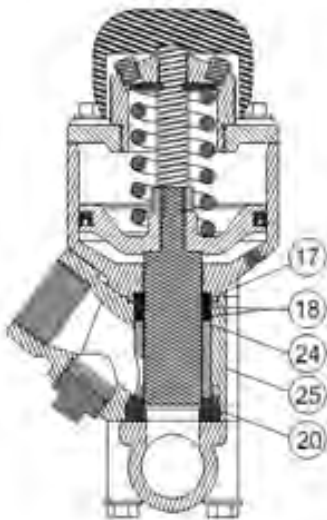
“Valves Make the Difference”

SCHMIDT VALVES

Schmidt Thompson II Valve

BLAST POTS & ACCESSORIES

No.	Part No.	Description
1.	2152-000-99	Replacement Parts Kit w/ Tungsten Carbide Sleeve
2.	2152-000-01	Knob
3.	2152-000-17	Breather Vent
4. *	2152-000-18	Spring Retainer
5.	7027-503-02	O-Ring
6.	7010-507-07	Hex bolt, 3/8" UNC x 1-1/4" Lg
7.	2152-000-02	Cap Plate
8. *	2152-000-16	Cap Gasket
10.	2152-000-25	Vibration Disc
11.	2152-000-03	Spring
12.	2149-000-08	Nut
13. *	2149-000-04	Piston Seal
14.	2152-000-05	Piston
15. *	2152-000-07	Tungsten Carbide Plunger
16.	2152-000-09	Cylinder
17. *	2152-000-06	Plunger Seal, 1 Required
18. *	2152-000-06	
19.	2152-000-14	Body
20. *	2152-000-10	Seat
21.	2152-000-11	Base, 1-1/2" NPT
22.	7010-507-95	Hex Bolt, 3/8" UNC x 4-3/4" Lg
23.	3014-506	Plug
24. *	2152-000-21	O-Ring
25. *	2152-000-13	Tungsten Carbide Sleeve
26.	2149-000-16	Sleeve Pin
* Included in Replacement Part Kit for Tungsten Carbide Sleeve		



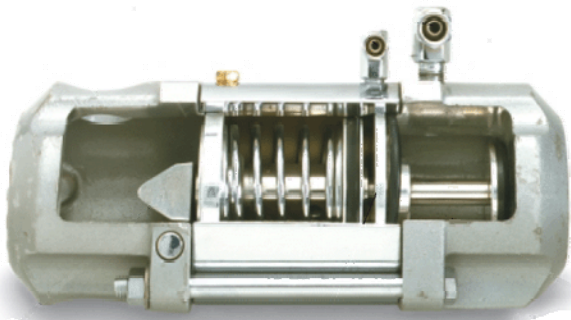
SCHMIDT VALVES

Schmidt Combo Valve

Combo Valve

“One Less Valve is The Advantage”

Replacing the Need for Two Valves



- One valve does the job of two
- Simple design is easy to disassemble and maintain
- Rugged corrosion resistant construction
- For safety, spring maintains valve in off position until activated by operator
- Uses common 3/4" 4-ply blast hose for exhausted
- Extended length exhaust hose can be used to port exhausted air to any desired location
- Assembled by Axxiom technicians with Schmidt experience
- All Axxiom valves undergo a thorough quality check before they are shipped

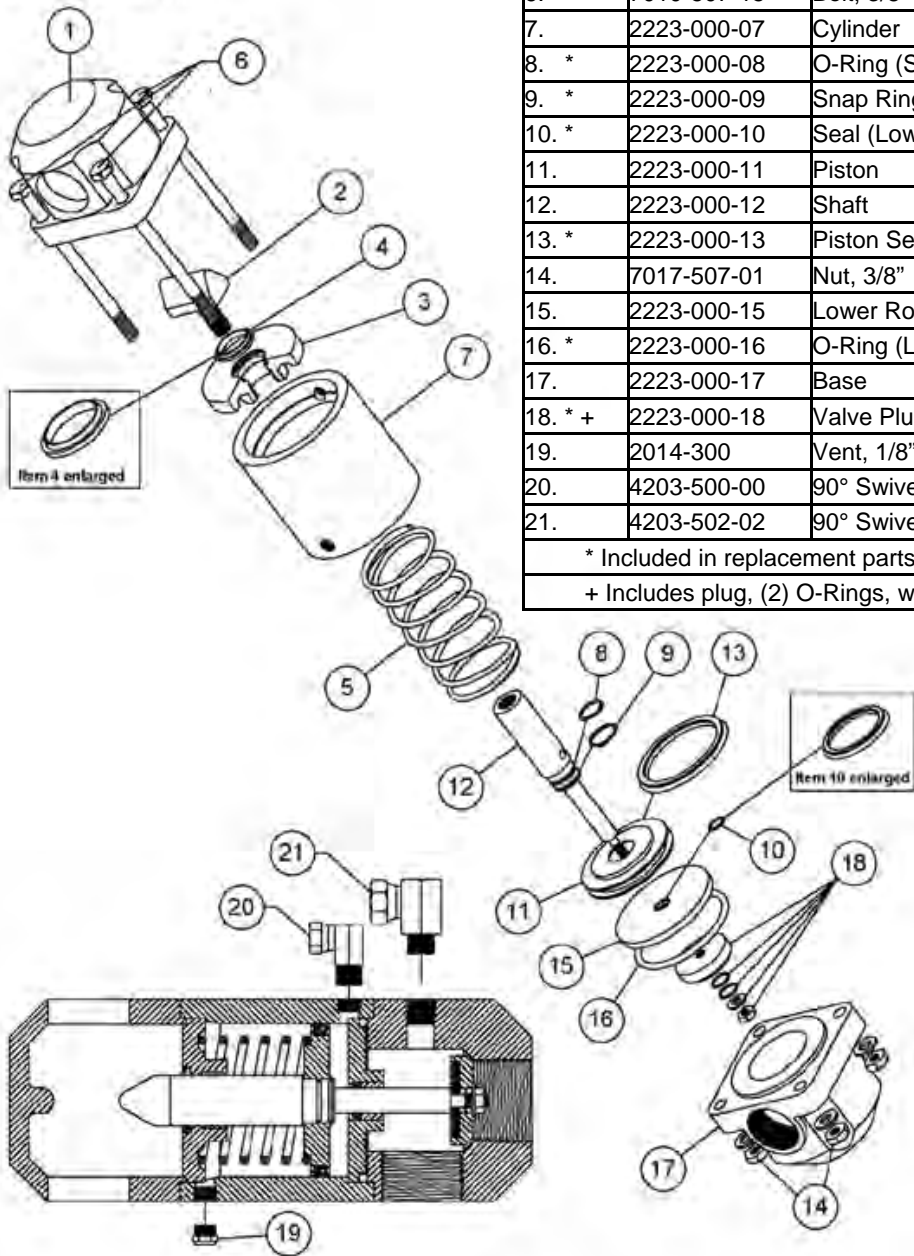
“The Combo Valve reduces costly downtime”

“Valves Make the Difference”

SCHMIDT VALVES

Schmidt Combo Valve

9.10 Combo Valve



No.	Part No.	Description
	2223-000	Combo Valve
	2223-000-99	Replacement Parts Kit
1.	2223-000-01	Cap
2.	2223-000-02	Pinch Ram
3.	2223-000-03	Upper Rod Guide
4. *	2223-000-04	Seal (Upper Rod)
5.	2223-000-05	Spring
6.	7010-507-15	Bolt, 3/8" X 6"
7.	2223-000-07	Cylinder
8. *	2223-000-08	O-Ring (Shaft)
9. *	2223-000-09	Snap Ring
10. *	2223-000-10	Seal (Lower Rod)
11.	2223-000-11	Piston
12.	2223-000-12	Shaft
13. *	2223-000-13	Piston Seal
14.	7017-507-01	Nut, 3/8"
15.	2223-000-15	Lower Rod Guide
16. *	2223-000-16	O-Ring (Lower Rod)
17.	2223-000-17	Base
18. * +	2223-000-18	Valve Plug Assembly
19.	2014-300	Vent, 1/8"
20.	4203-500-00	90° Swivel, 1/8" X 1/8"
21.	4203-502-02	90° Swivel, 1/4" X 1/4"
		* Included in replacement parts kit
		+ Includes plug, (2) O-Rings, washer and nut

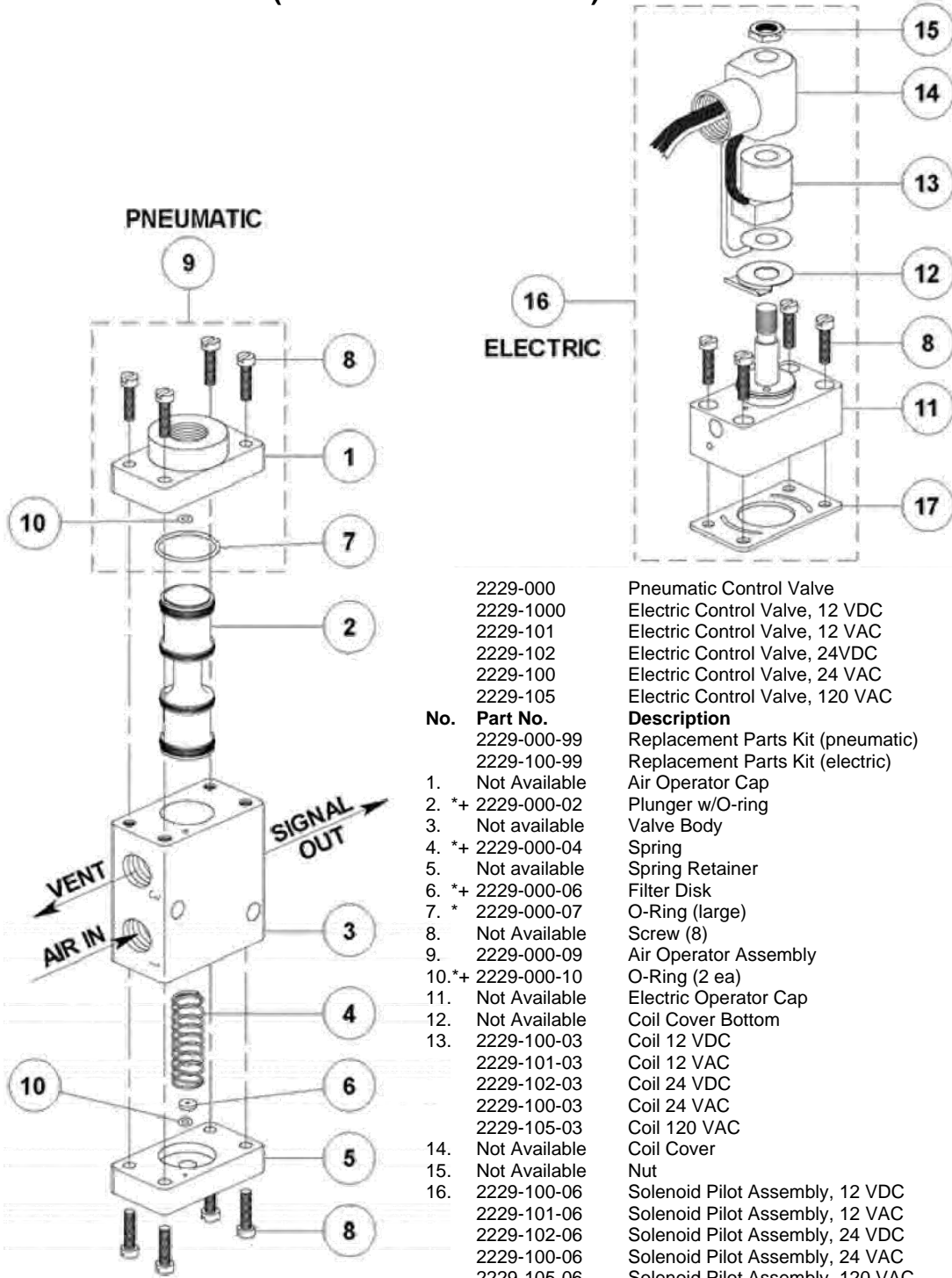
BLAST POTS & ACCESSORIES



SCHMIDT VALVES

Schmidt Control Valves or "Mac Valve"

9.13 Control Valves (Pneumatic and Electric)



<p>2229-000 2229-1000 2229-101 2229-102 2229-100 2229-105</p> <p>No. Part No.</p> <p>1. Not Available 2. *+ 2229-000-02 3. Not available 4. *+ 2229-000-04 5. Not available 6. *+ 2229-000-06 7. * 2229-000-07 8. Not Available 9. 2229-000-09 10.*+ 2229-000-10 11. Not Available 12. Not Available 13. 2229-100-03 2229-101-03 2229-102-03 2229-100-03 2229-105-03 14. Not Available 15. Not Available 16. 2229-100-06 2229-101-06 2229-102-06 2229-100-06 2229-105-06 17.+ 2229-100-07</p>	<p>Pneumatic Control Valve Electric Control Valve, 12 VDC Electric Control Valve, 12 VAC Electric Control Valve, 24VDC Electric Control Valve, 24 VAC Electric Control Valve, 120 VAC</p> <p>Description</p> <p>Replacement Parts Kit (pneumatic) Replacement Parts Kit (electric) Air Operator Cap Plunger w/O-ring Valve Body Spring Spring Retainer Filter Disk O-Ring (large) Screw (8) Air Operator Assembly O-Ring (2 ea) Electric Operator Cap Coil Cover Bottom Coil 12 VDC Coil 12 VAC Coil 24 VDC Coil 24 VAC Coil 120 VAC Coil Cover Nut Solenoid Pilot Assembly, 12 VDC Solenoid Pilot Assembly, 12 VAC Solenoid Pilot Assembly, 24 VDC Solenoid Pilot Assembly, 24 VAC Solenoid Pilot Assembly, 120 VAC Gasket (Electric only)</p>
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*Included In Replacement Parts Kit-Pneumatic
+ Included In Replacement Parts Kit-Electric

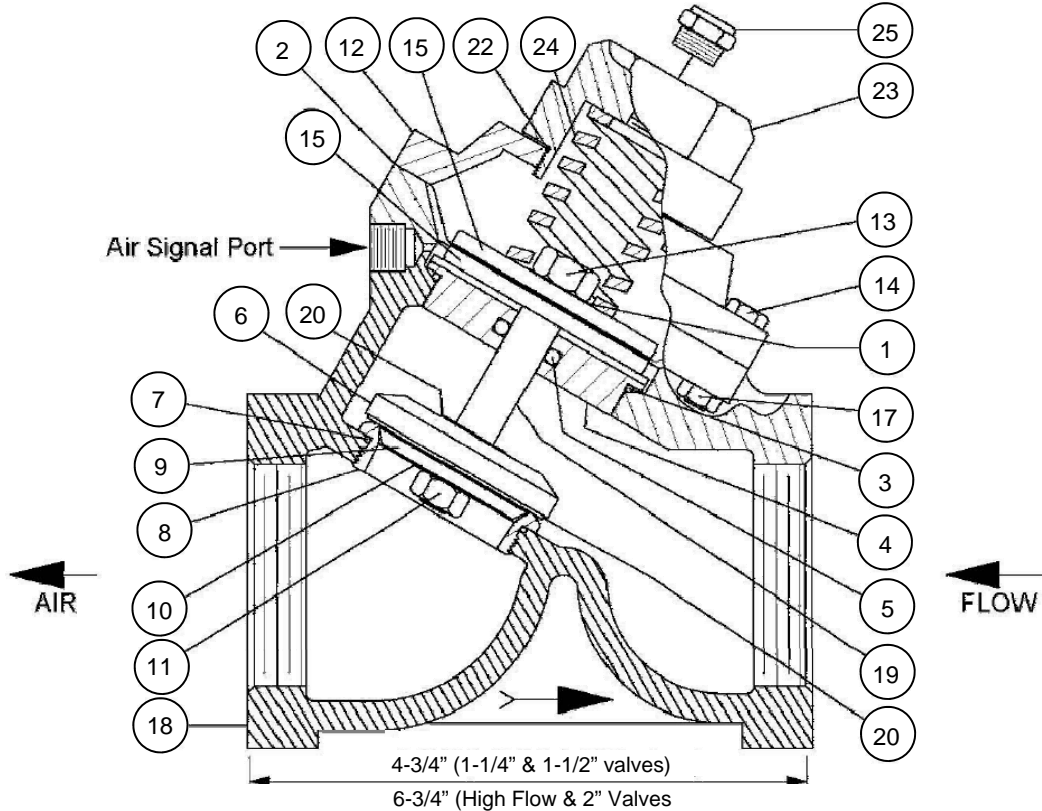


SCHMIDT VALVES

Schmidt Automatic Air Valve

9.14 Automatic Air Valve (normally closed)

No.	Part No.	Description	No.	Part No.	Description	No.	Part No.	Description
	2123-106	1" Valve		2123-107	1 1/4" Valve		** 2123-108L	1-1/2" High Flow Valve
	2123-006-99	Replacement Parts Kit		2123-108	1 1/2" Valve		2123-009-99	Replacement Parts Kit
1.	* 2123-006-01	Gasket		2123-007-99	Replacement Parts Kit	1.	* 2123-009-01	Gasket
2.	* 2123-006-02	Diaphragm	1.	* 2123-007-01	Gasket	2.	* 2123-009-02	Diaphragm
3.	* 2123-006-03	O-Ring	2.	* 2123-007-02	Diaphragm	3.	* 2123-009-03	O-Ring
4.	2123-006-04	Retainer Bushing	3.	* 2123-007-03	O-Ring	4.	2123-009-04	Retainer Bushing
5.	* 2123-006-05	O-Ring	4.	2123-007-04	Retainer Bushing	5.	* 2123-009-05	O-Ring
6.	2123-006-06	Disk Retainer	5.	* 2123-007-05	O-Ring	6.	2123-009-06	Disk Retainer
7.	* 2123-006-07	O-Ring	6.	2123-007-06	Disk Retainer	7.	* 2123-009-07	O-Ring
8.	2123-006-08	Seat	7.	* 2123-007-07	O-Ring	8.	2123-009-08	Seat
9.	2123-006-09	Disc Plate	8.	2123-007-08	Seat	9.	2123-009-09	Disc Plate
10.	"Deleted"	Lock Washer, internal	9.	2123-007-09	Disc Plate	10.	"Deleted"	Lock Washer, internal
11.*	2123-006-11	Lock Nut	10.	"Deleted"	Lock Washer, internal	11.*	2123-009-11	Lock Nut
12.	2123-106-12	Cap	11.*	2123-007-11	Lock Nut	12.	2123-109-12	Cap
13.*	2123-006-13	Hex Nut (w/thread lock)	12.	2123-107-12	Cap	13.*	2123-009-13	Hex Nut (w/thread lock)
14.	2123-006-14	Cap Screw	13.*	2123-007-13	Hex Nut (w/thread lock)	14.	2123-009-14	Cap Screw
15.	2123-006-15	Diaphragm Plato	14.	2123-007-14	Cap Screw	15.	2123-009-15	Diaphragm Plato
17.	2123-006-17	Lock Nut	15.	2123-007-15	Diaphragm Plato	17.	2123-009-17	Lock Nut
18.	2123-006-18	Body, 1"	17.	2123-007-17	Lock Nut	18.	2123-009-18	Body, 1-1/2" High flow
19.	2123-006-19	Shaft	18.	2123-007-18	Body, 1 1/4"	19.	2123-009-19	Shaft
20.*	2123-006-20	Gasket		2123-008-18	Body, 1 1/2"	20.*	2123-009-20	Gasket
21.*	2123-006-21	Disc	19.	2123-007-19	Shaft	21.*	2123-009-21	Disc
22.	2123-106-22	O-Ring	20.*	2123-007-20	Gasket	22.		Not Needed
23.	2123-106-23	Spring Retainer	21.*	2123-007-21	Disc	23.	2123-109-23	Spring Retainer
24.	2123-106-24	Spring	22.	2123-107-22	O-Ring	24.	2123-109-24	Spring
25.	2014-300	Vent, 1/8" (not included)	23.	2123-107-23	Spring Retainer	25.	2014-300	Vent, 1/8" (not included)
		* Included In Replacement Parts Kit	24.	2123-107-24	Spring			* Included In Replacement Parts Kit
			25.	2014-300	Vent, 1/8" (not included)			**1-1/2" High Flow Valve is Optional On Units Manufactured After July1, 2008
					* Included In Replacement Parts Kit			



NOTE: With spring closed valve air flow is in opposite direction from arrow on valve body

BLAST POTS & ACCESSORIES

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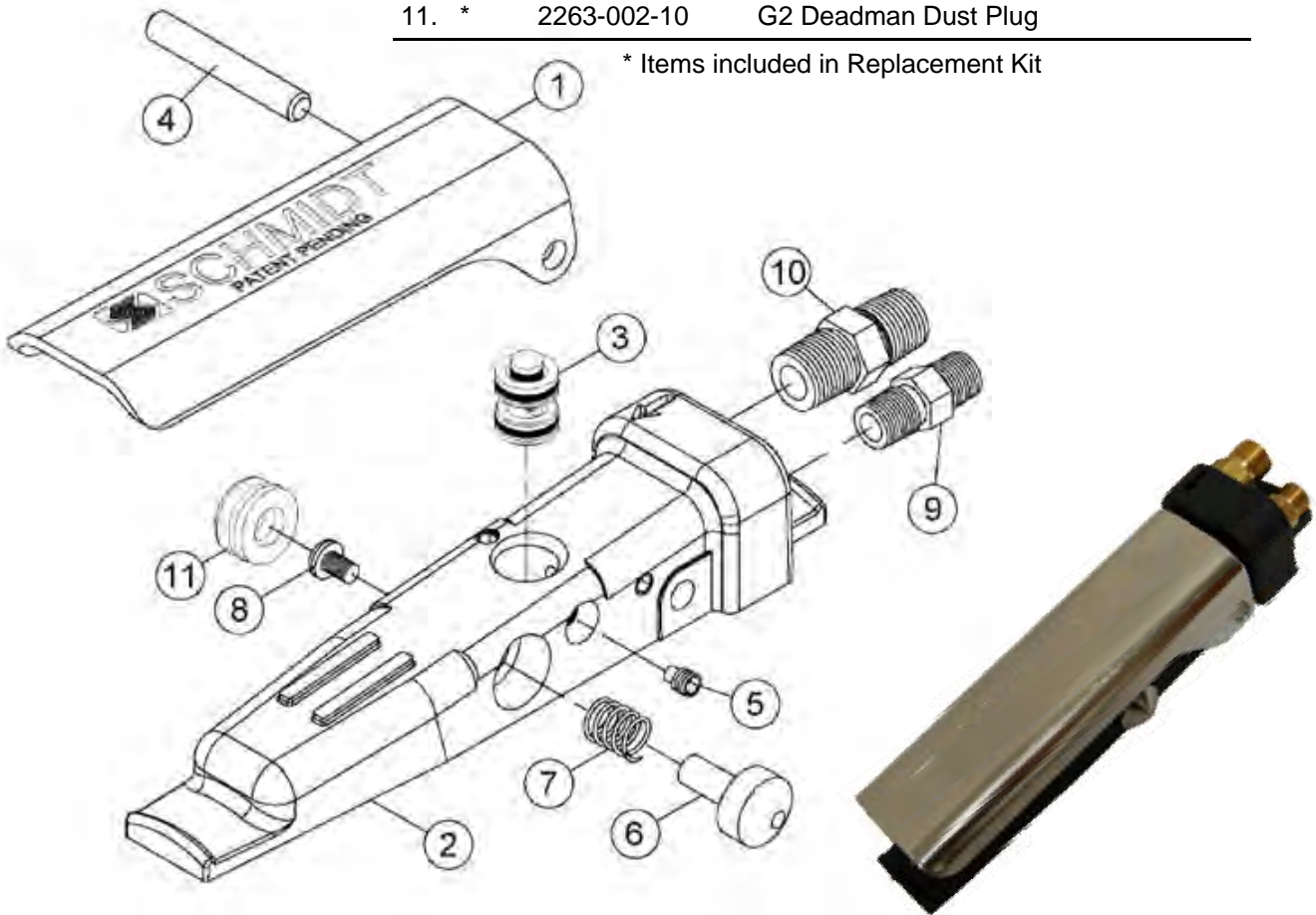
SCHMIDT DEADMAN CONTROL

Schmidt G2 Pneumatic Deadman

9.15(a) G2 Pneumatic Deadman

2263-002		G2 Pneumatic Deadman
No.	Part No.	Description
	2263-002-99	G2 Replacement Parts Kit
1.	2263-002-01	G2 Deadman Lever
2.	2263-002-02	G2 Deadman Body
3.	* 2263-002-03	G2 Deadman Cartridge Assembly
4.	2263-002-04	G2 Deadman Hinge Pin
5.	* 2263-002-05	G2 Deadman Cartridge Set Screw
6.	2263-002-06	G2 Deadman Button
7.	* 2263-002-07	Deadman Spring
8.	* 2263-000-08	Deadman Screw for Button
9.	3031-300-00	Hex Nipple, 1/8" x 1/8" With Ball Seat
10.	3031-302-02	Hex Nipple, 1/4" x 1/4" With Ball Seat
11.	* 2263-002-10	G2 Deadman Dust Plug

* Items included in Replacement Kit



SCHMIDT DEADMAN CONTROL

Schmidt G2E Electric Deadman

INTRODUCING G2E™

“Feel the Difference!!”

The look & features you trust with the G2 Pneumatic are now available in Electric controls!

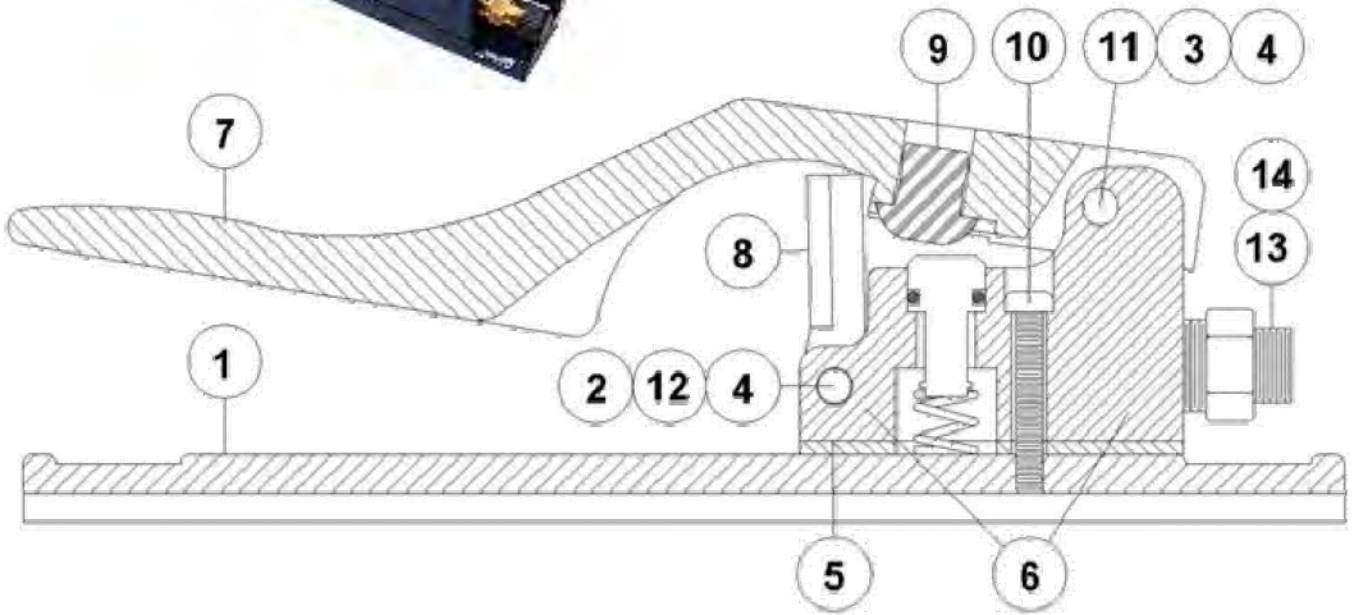
- Superior design perfectly balances comfort & safety•
- Left or right handed configurations•
- Strategic hinge pin location for minimized debris collection•



BLAST POTS & ACCESSORIES

SCHMIDT DEADMAN CONTROL

Schmidt Deadman II Pneumatic



2263-001 Pneumatic Deadman II

No.	Part No.	Description	No.	Part No.	Description
	2263-001-99	Replacement Parts Kit, Level I	8.	+	2263-001-08 Safety Flap
	2263-001-98	Replacement Parts Kit, Level II	9.	*+	2263-001-09 Plunger Plug
1.	2263-001-01	Base	10.		2263-001-10 Body Mounting Screw
2.	+	2263-001-02 Safety Flap Spring	11.		2263-001-11 Lever Spring
3.	+	2263-001-03 Lever Hinge Screw	12.	+	2263-001-12 Flap Hinge Screw
4.		2263-001-04 Hinge Pin Nut	13.		3031-302-00 Hex Nipple, 1/8" x 1/4"
5.	*+	2263-001-05 Body Gasket	14.		3031-300-00 Hex Nipple, 1/8" x 1/8"
6.	*+	2263-001-06 Valve Body Assembly	* Included in replacement parts kit, Level I		
7.		2263-001-07 Lever	+ Included in replacement parts kit, Level II		



SCHMIDT BULK BLASTER

Bulk Abrasive Blasting Systems

Schmidt bulk blasters are designed to maximize the cost savings of volume production. These high productivity blasting systems feature multi-outlet Thompson Valve® II controls that allow each operator independent control of his abrasive media flow. Standard bulk systems include 20, 120, 160, 500, 650 and 800 cu. ft. sizes. Custom Systems can be designed to meet specific needs.

- * Designed to provide the industry's lowest pressure drop, resulting in higher productivity
- * Safest industry design: features normally closed, fail-safe valves and controls
- * Low maintenance design minimizes downtime
- * 125 psi ASME code vessel with 150 psi systems available
- * Some units have full-load lifting eyes for easier transport (not rated for steel abrasives)
- * 10" camlock closure requires less maintenance
- * 12" x 16" manway for easy access
- * Ladder allows easy access to closure
- * Optional moisture separator for even abrasive flow



BLAST POTS & ACCESSORIES

Kansas City, KS
800-933-3643

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St. Louis, MO
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Ft. Worth, TX
800-480-8957

CANFIELD &
JOSEPH, INC.

SCHMIDT COOLERS & DRYERS

Airprep System - Aftercooler & Air Dryer

AirPrep Systems eliminate moisture problems in your abrasive blasting compressed air system. With its innovative design, AirPrep Systems effectively provide cooler, cleaner and drier air to your blasting system with negligible drop in pressure. By reducing rusting, clogged blast pots, damp abrasives and damaged valves, you'll decrease costly downtime and increase productivity. With two system types (Aftercooler System and Air Dryer System) available to meet your specific needs, the AirPrep will save you both time and money.



Features and Benefits

- Compact, vertical air flow design
- Skid mounted with forklift pockets and full load-lifting eyes for portability; yard trailer mount and custom systems are available
- Protective bar grating
- 6" x 8" inspection port
- Pneumatic fan motor includes filter, regulator, lubricator, and muffler; electric fan motors available
- Choice of system to meet your specific application requirements: aftercooler or air dryer

Aftercooler System (ACS)

High efficiency AirPrep system with stainless steel coalescent filter. Inlet prefilter removes oil and contaminants.

Air Dryer System (ADS)

Maximum efficiency AirPrep system with galvanized vessel design for use with deliquescent tablets. Multiple step filtration assures highest degree of contaminant removal.

Model	CFM	Wolume/Air Dryer Deliquescent Storage	Inlets/Outlets (NPT)	Dimensions	Weight (lbs)
ACS 250	250	1.3 cu.ft.	1-1/4"/(3) 1-1/4"	34"Lx29"Wx46"H	270
ACS 400	400	8.4 cu.ft.	2"/(1) 2", (2) 1-1/2", (2) 1"	40"Lx30"Wx63"H*	780
ACS 750	750	14.9 cu.ft.	2"/(1) 2", (2) 1-1/2", (2) 1"	48"Lx33"Wx70"H*	1,225
ACS 950	950	22.4 cu.ft.	3"/(1) 3", (2) 2", (2) 1"	62"Lx238Wx79"H*	1,250
ACS 1200	1200	22.4 cu.ft.	3"/(1) 3", (2) 2", (2) 1"	66"Lx38"Wx79"H*	1,450
ACS 1600	1600	22.4 cu.ft.	3"/(1) 3", (2) 2", (2) 1"	70"Lx38"Wx83"H*	2,030
ACS 2000	2000	37.0 cu.ft.	4"/(1) 4", (2) 2", (2) 1"	86"Lx48"Wx86"H*	2,125
ACS 2500	2500	37.0 cu.ft.	4"/(1) 4", (2) 2", (2) 1"	85"Lx48"Wx96"H*	2,260
ADS 250	250	4.4 cu.ft./2.5 cu.ft	1-1/4"/(1) 1-1/4"	34"Lx29"Wx59"H	420
ADS 400	400	8.4 cu.ft./4.0 cu.ft	2"/(1) 2", (2) 1"	34"Lx30"Wx63"H*	980
ADS 750	750	14.9 cu.ft./7.25 cu.ft	2"/(1) 2", (2) 1"	34"Lx33"Wx70"H*	1,400
ADS 950	950	22.4 cu.ft./9.5 cu.ft	3"/(1) 3", (2) 1"	34"Lx38"Wx79"H*	1,450
ADS 1200	1200	24.1 cu.ft./12.0 cu.ft	3"/(1) 3", (2) 1"	34"Lx38"Wx82"H*	1,640
ADS 1600	1600	28.1 cu.ft./16.0 cu.ft	3"/(1) 3", (2) 1"	34"Lx38"Wx93"H*	2,330
ADS 2000	2000	40.3 cu.ft./20.0 cu.ft	4"/(1) 4", (2) 1"	34"Lx48"Wx98"H+	2,425
ADS 2500	2500	45.0 cu.ft./25.0 cu.ft	4"/(1) 4", (2) 1"	85"Lx48"Wx106"H+	2,560

* Electric Motor adds 5" to height + Electric Motor adds 6" to height



SCHMIDT RECOVERY SYSTEMS

Blast Recovery Systems (BRS)

The Schmidt BRS can blast and vacuum simultaneously, effectively eliminating offensive dust clouds, poor visibility and costly cleanup. It can also perform either feature independently. The portable system is ideally suited for jobs where traditional open-air blasting is prohibited, or is not possible or practical.

Features and Benefits

- Portable system used for lead and asbestos abatement, indoor blasting, bridge and road maintenance, building restoration and other steel and concrete cleaning applications
- Flexible system can blast and recover simultaneously or independently
- Available in 2.0, 3.5 and 6.5 cu. ft. systems with pneumatic or electric remote controls, patented Thompson Valve® metering system and ComboValve® blowdown system
- Cyclone has large, quick-opening access door and two-part screen with removable center for easy access
- Optional, adjustable, air wash cyclone improves abrasive cleaning
- Three-way dust collector designed for wet, dry or dry-HEPA filters
- Automatic pulse jet prevents clogging of dust filters
- Quick opening hatches make cartridges and filters easy to remove and replace
- Urethane inductor pump is available with 225, 350, 440, or 550 cfm nozzle
- Moisture separator and media vibrator ensure even flow of abrasive
- Options include 3' BRS head with outer brush, remote abrasive cutoff for cleaner start/stop and reduced abrasive consumption, blast pressure regulator with gauge

Industrial Blast Recovery (IBRS)



Blast Recovery System II (BRS2)



Blast Recovery System (BRS)



BLAST POTS & ACCESSORIES

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800-513-9857

Ft. Worth, TX
800-480-8957



BLAST CABINETS & ROOMS



Clemco makes ZERO blast cabinets-all shapes, sizes, and configurations plus the ancillary components and special options that help tailor these cabinets to a particular application. From the workhorse BNP manual cabinets, to the premier Pulsar series, to our standard and custom automatics, ZERO cabinets help manufacturers, remanufacturers, job shops, and automotive shops produce high quality products quickly and efficiently.



Our standard automation includes tumble belts for batch processing heavy casting and tumble barrels for processing lighter parts. ZERO's versatile BNP A200 and A205 indexing turntable cabinets can be configured to consistently clean,peen, or finish myriad parts.

Our free sample processing service demonstrates the effectiveness of blasting on representative parts. It's the first step to producing a standard or special automated system that solves a cleaning, peening or finishing problem



INDUSTRIAL
Blast Facilities
by
CLEMCO

AEROLYTE

- Canfield & Joseph provides standard and modified cabinet systems for abrasive blast cleaning, finishing and peeing.
- We supply a full range of cabinets – Economy to Custom.
- We can engineer automated systems, blast / paint rooms.
- Our cabinets can accommodate the many abrasives used today and we stock parts and accessories for most models



BLAST POTS



BIG CLEM Bulk Abrasive Blast Machines



Clemco Products offered in 3 popular sizes: 60, 120 and 160 cubic feet. Each size is available as stationary, yard towable and highway towable.

CLEMCO Classic



High Pressure, High Production, Full Features Systems Available in capacities of 2, 4 and 6 cubic feet



BLAST POTS & ACCESSORIES

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St. Louis, MO
800-513-9857

Ft. Worth, TX
800-480-8957

CANFIELD &
JOSEPH, INC.

PORTABLE BLAST POTS

CLEMCO Classic

SPECIFICATIONS

Model	Dimensions Dia x Height	Standard Working Pressure	Capacity Cu. Ft.	Portable or Stationary	Piping (I.D.)	ACS Option	Remote Controls Pneu. Or Elec.	Metering Valve	Pop-up Valve & O-ring
1028	10" x 28"	125 psi	1/2 cu. ft.	Portable	1/2"	Not Available	TLR 50 pneu. Only	MSV	01242 01245
1042	10" x 48"	125 psi	1 cu. ft.	Portable	1/2"	Not Available	TLR 50 pneu. Only	MSV	01242 01245
1642	16" x 42"	150 psi	2 cu. ft.	Portable & Stationary	1"	Available	TLR 100 or Sentinel pneu. Or elec.	FSV	03699 02325
1648	16" x 48"	150 psi	3 cu. ft.	Portable & Stationary	1" or 1-1/4"	Available	TLR 100, 300 or Sentinel pneu. or elec.	FSV, Quantum, or Sentinel	03699 02325
2443	24" x 43"	125 psi	6 cu. ft.	Portable	1" or 1-1/4"	Not Available	TLR 100 or 300 pneu. Or elec.	LPV	03699 02325
2452	24" x 52"	150 psi	6 cu. ft.	Portable & Stationary	1" or 1-1/4"	Available	TLR 100, 300 or Sentinel pneu. or elec.	FSV, Quantum, or Sentinel	03699 02325
2463	24" x 63"	125 psi	8 cu. ft.	Portable & Stationary	1-1/4"	Available	Sentinel Pressure hold only	Sentinel Only	03699 02325
3054	30" x 54"	125 psi	7 cu. ft.	Stationary	1-1/4"	Available	TLR 300 or Sentinel pneu. Or elec.	FSV or Sentinel	03699 02325
3079	30" x 79"	125 psi	14 cu. ft. (pot & hopper)	Stationary	1-1/4"	Available	TLR 100, 300 or Sentinel pneu. or elec.	FSV or Sentinel	03699 02325
3661	36" x 61"	125 psi	10 cu. ft.	Stationary	1-1/4"	Available	TLR 100, 300 or Sentinel pneu. or elec.	FSV or Sentinel	03699 02325
3680	36" x 80"	125 psi	20 cu. ft.	Stationary	1-1/4"	Available	TLR 100, 300 or Sentinel pneu. or elec.	FSV or Sentinel	03699 02325

PORTABLE BLAST POTS

BLAST POTS & ACCESSORIES

CLEMCO Classic



Decades of experience enable Clemco to produce blast machines suitable for a wide range of job.



Model 1648

3 cubic foot capacity

A mid-size blast machine, a favorite of rental yards.

150 psi Working Pressure is standard on this model

Model 2452

6 cubic foot capacity

This larger capacity blast machine is the obvious choice for professional blasting contractors, shipyards, railcar re-man facilities and large scale industrial production

150 psi Working Pressure is standard on this model



Model 1642

2 cubic foot capacity



150 psi Working Pressure is standard on this model



Model 2463

8 cubic foot capacity

Dual blast chambers permit continuous blasting. Twin outlets allow two operators to work without Interference.



Model 2443

6 cubic foot capacity

Lot-Pot Blast Machines are designed for ease in abrasive loading

PORTABLE BLAST POTS

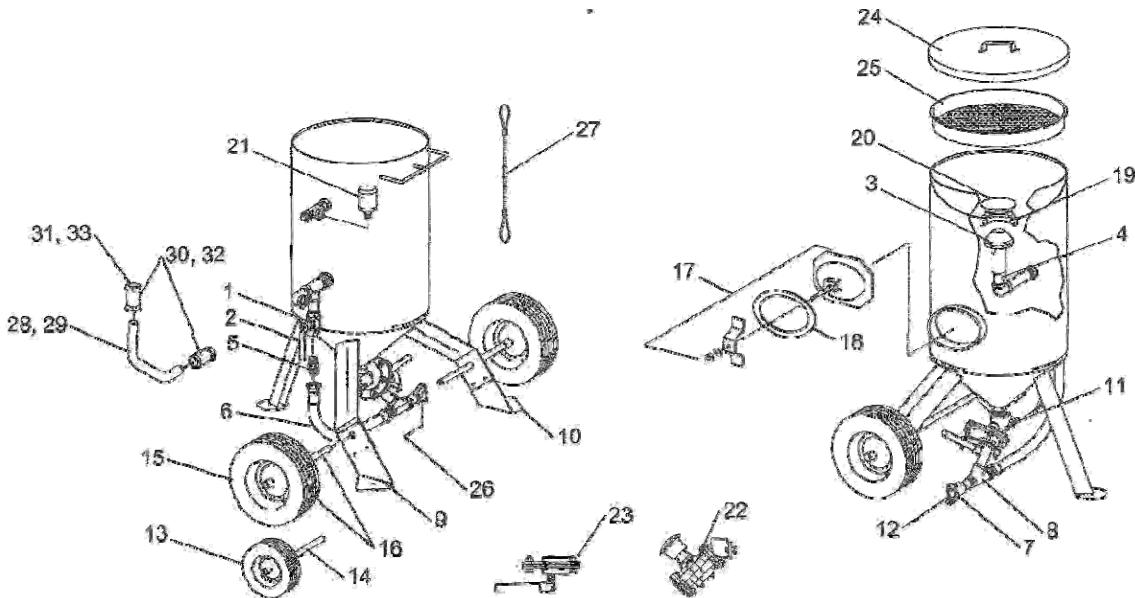
Blast Machine & Accessories



BLAST POTS & ACCESSORIES

Item	Description	Stock No.	Item	Description	Stock No.
1.	Ball Valve with handle, 1-inch NPT02396 1-1/4-inch NPT.....	02397	17.	Inspection door assembly, 6"x8".....	02377
2.	Handle, 1" ball valve.....	22531	18.	Gasket, 6"x8" inspection door.....	02369
	1-1/4" ball valve.....	22532	19.	Seat, pop-up Gum rubber, standard use.....	02325
3.	Pop-up valve, 4" with external sleeve.....	03699		Neoprene, for hot climates.....	02380
4.	Internal pop-up guide, toe nipple, for 2 and 3 cu ft. 1-1/4"x6-1/2".....	01754	20.	Umbrella, optional, 4" bolt on.....	02318
	6 cu ft. 1-1/4" x6".....	01753	21.	Muffler, exhaust.....	05068
5.	Adaptor, male NPT x male JIC 1" NPT.....	11720	22.	Metering Valve, optional manual pinch tube.....	04321
	1-1/4" NPT.....	22529	23.	Metering valve, for lo-pot machines.....	05680
6.	Pusher line, Coupled 1" ID x 28-inch long.....	23673	24.	*Cover, for 14" diameter machine.....	02334
	1-1/4" ID x 28-inch long.....	23674		16" diameter machine.....	02335
	1-1/4" ID x 31-inch long.....	23675		20" diameter machine.....	02358
7.	Coupling, 1-1/4" CF.....	00551		24" diameter machine.....	02336
8.	Wye, 1-1/4" standard.....	01818		30" diameter machine.....	02337
9.	Leg pad, right, for 1.5 cu ft., 3 cu ft., and 6 cu ft. machine.....	03654	25.	*Screen, recessed type, for 14" diameter machine.....	03098
	2 cu ft. machine.....	20736		16" diameter machine.....	03099
10.	Leg pad, left, for 1.5 cu ft. 3 cu ft. and 6 cu ft. machine.....	03655		20" diameter machine.....	20357
	2 cu ft. machine.....	20736		24" diameter machine.....	03100
11.	Metering valve, FSV.....	02427		30" diameter machine.....	03101
12.	Gasket, CQG coupling, (package of 10).....	00850	26.	*Lock pin, coupling (package of 25).....	11203
13.	Wheel and tire, 10x2.75, for 2 cu ft.....	20349	27.	*Safety cable, 3/4" to 1-1/2" ID blast hose.....	15013
14.	Axle, 2 cu ft. 10" Wheel.....	20734	28.	**Formed pipe pusher line, 1".....	01865
15.	Wheel and tire, 16x400.....	02338	29.	**Formed pipe pusher line, 1-1/4".....	01866
16.	Axle and 16" wheel set for 3 cu ft. machine.....	02822	30.	**Compression coupling, 1".....	01856
	6 cu ft. machine.....	02350	31.	**Gasket, 1" compression coupling.....	01885
			32.	**Compression coupling, 1-1/4".....	01857
			33.	**Gasket, 1-1/4" compression coupling.....	01886

*Recommended accessories
 **Used on 30" & larger machines, & all machines shipped prior to January 2003



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METERING VALVES

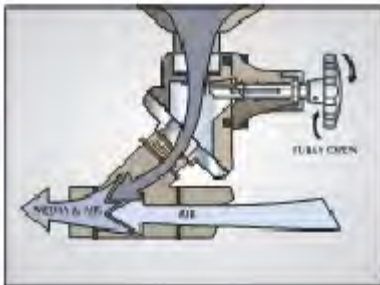


CLEMCO ABRASIVE METERING VALVES Application Guide

Model/Description	Standard Equipment on:	Stock No.	Manual or Pneumatic	Remote Control Type	Applications (abrasives/media)	Alternate Use
FSV Flat Sand Valve	Classic blast machine, 2 cu ft and larger	02427	Manual	Pressure Release	Use with expendable mineral & slag abrasives; does not work well with metallic media	
Quantum Valve	Contractor & Classic machines	22845	Manual	Pressure Release	Use with all common abrasives; mineral, slag, or metallic	
LPV Valve	Lo-Pot machines	05680	Manual	Pressure Release	Use with expendable mineral & slag abrasives.	
MSV Valve	0.5 & 1 cu ft Classic machines	01247	Manual	Pressure Release	Use with expendable mineral & slag abrasives; not recommended for use with fine mesh media or glass bead.	Machines with 1/2" piping
Sentinel Valve	Classic machines with pressure-hold remotes or ACS: industrial blast machines.	20508	Pneumatic	Pressure-hold and abrasive cut-off-systems	ACS applications: all media; use with abrasives coarser than 50 mesh; requires 50 to 70 psi to fully open plunger.	2 cuft & larger machines

Metering Valves – Precise Abrasive Metering

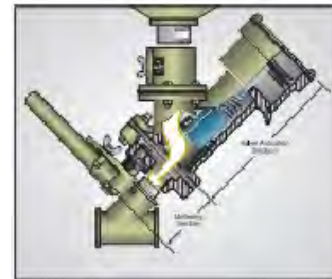
One of the most important features of the blast machine is the abrasive metering valve. Selecting the right valve for your application is the key to productivity and efficiency



The Quantum valve handles all types of media, minerals, slags, and metallic media. Its simple design with few moving parts allows for precise media metering and easy maintenance. The Quantum fits machines from 2 to 20 cubic feet.

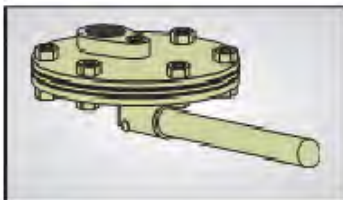


The FSV is the tried-and-true, work horse of the industry, and original Clemco design, now copied across the globe. It is used on machines from 2 to 20 cubic feet.



The normally –closed the Sentinel valve is used on 2 to 20 cubic foot machines. It handles all media types and has an abrasive cut-off (ACS) feature. The ACS allows the operator to shut off the surface with air after blasting. The Sentinel is used on pneumatic and electric pressure-release systems and on pneumatic and electric pressure-hold systems

The FSV, Quantum, and Sentinel valves are designed to feed abrasive into the air stream at 45 degrees. This design feature eliminates turbulence, minimizes wear on fittings, and ensures smooth, consistent flow.



The LPV is a low-profile valve for mineral and slag abrasives used on Lo-Pots



The MSV suited to expendable media, is used on our 1/2 and 1-cubic foot machines.

BLAST POTS & ACCESSORIES

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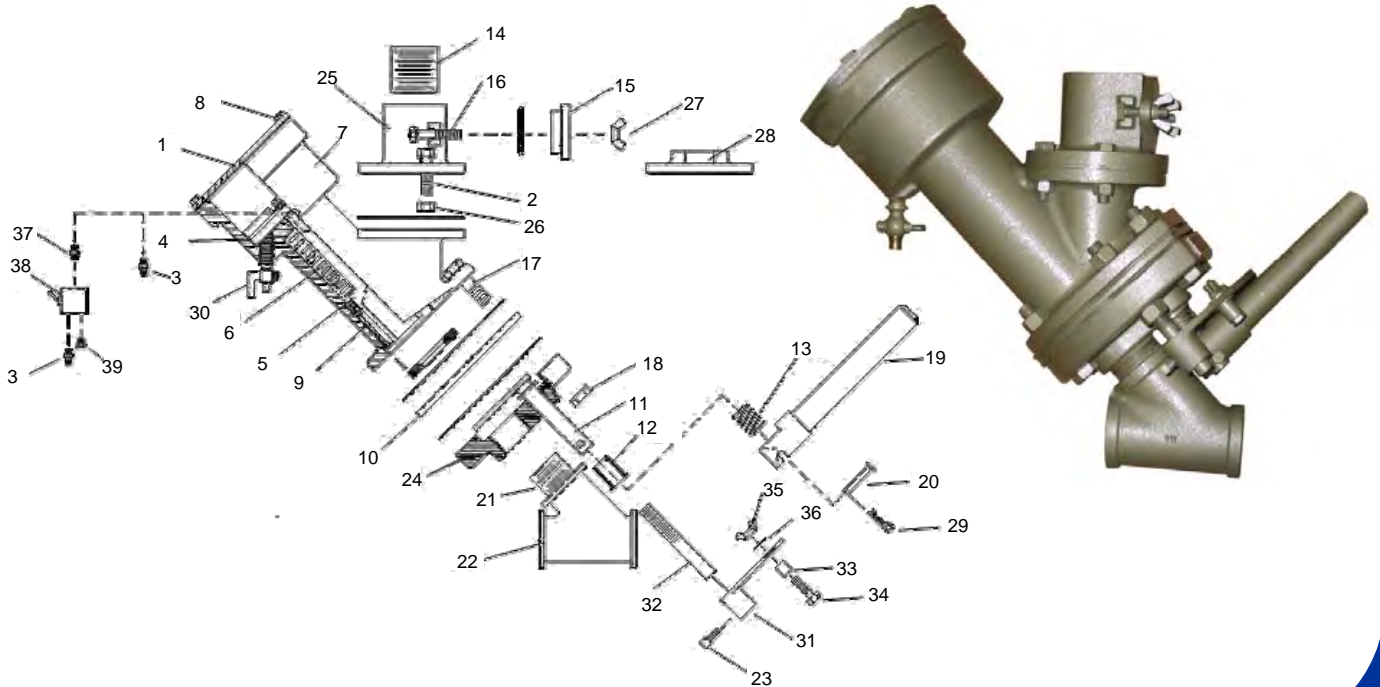
METERING VALVES



Sentinel Media Metering Valve

BLAST POTS & ACCESSORIES

Item	Description	Stock No.	Item	Description	Stock No.
(-)	Sentinel Media Metering Valve.....	20508	19.	Metering Handle, Heavy Duty.....	20498
1.	Cylinder Cap.....	20512	20.	Pin, Valve Handle.....	20246
2.	Cap screw, 3/8-NC x 1-1/2".....	03267	21.	Close Nipple, 1-1/4".....	01717
3.	Adaptor, 1/8" NPT.....	01940	22.	Wye, 1-14" Standard.....	01818
4.	Piston Cup.....	20515	23.	Set Screw, 1/4-NC sq. hd.....	03080
5.	Piston, shut-off.....	20494	24.	Lower Body.....	20511
6.	Spring, 2"OD x 4-1/2".....	20600	25.	Flanged adaptor w/ inspection opening.....	20513
7.	Upper Body.....	20514	26.	Nut, 3/8-NC hex head.....	03311
8.	Cap screw, 5/16-NC x 3/4".....	03151	27.	Nut, 5/16-NC wing.....	03213
9.	Wear sleeve.....	20495	28.	Flanged adaptor w/o inspection opening.....	20522
10.	Seat plate.....	20497	29.	Hitch pin.....	20245
11.	Metering Plate and Stem		30.	Petcock.....	01993
	Standard-use, coarser than 50-mesh.....	20499	31.	Gauge Unit.....	02433
	Fine-mesh, Urethane, 50-mesh & Finer.....	21438	32.	Stud, gauge unit.....	02436
12.	Packing gland.....	21021	33.	Spacer, handle bolt.....	02431
13.	Spring, 5/8" ID x 1-11/16".....	01982	34.	Cap screw, 1/4-NC x 1".....	03053
14.	Close Nipple, 1-1/2" schedule 80.....	01791	35.	Nut, 1/4-NC wing.....	03113
15.	Inspection Plate.....	02440	36.	Washer, 1/4 flat.....	03116
16.	Cap screw, 5/16 NC x 1-1/4".....	19509	37.	Connector, 1/8" Brass.....	01962
17.	Cap Screw, 1/2-NC x 2-1/2".....	03457	38.	Valve, 3-way ACS switch.....	07658
18.	Nut, 1/2-NC hex head.....	03511	39.	Breather, muffler 1/8".....	07657



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METERING VALVES

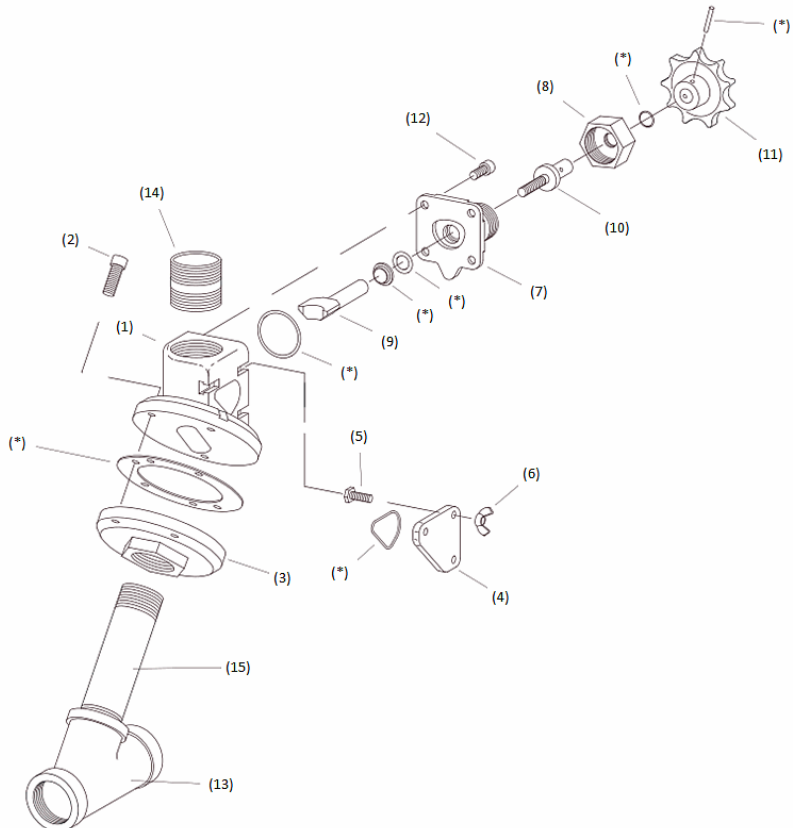
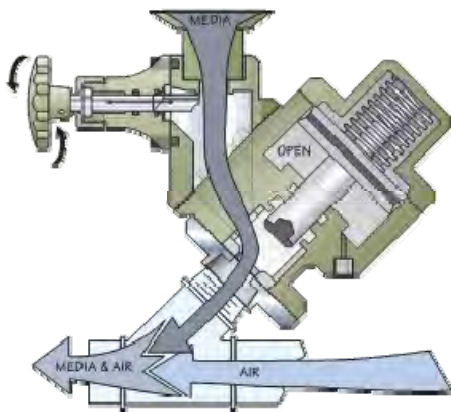


Quantum Abrasive Metering Valve

Item	Description	Stock No.
(-)	Manual Quantum metering valve w/wye.....	22845
*	Service Kit, metering assembly (Fig. 5a).....	22854
1.)	Upper body.....	21314
2.)	Screw, 3/8-NC x 1" socket head.....	22655
3.)	Flange, threaded outlet.....	22621
4.)	Inspection plate.....	22620
5.)	Screw, 1/4-NC x 3/4" hex head cap.....	03052
6.)	Nut, 1/4-NC wing.....	03113
7.)	Housing, knob.....	22761
8.)	Nut, knob housing.....	22762
9.)	Metering plate and shaft.....	22763
10.)	Metering screw.....	22764
11.)	Knob, adjustment.....	22766
12.)	Screw, 5/16-NC x 3/4" socket head.....	22767
13.)	Wye, 1-1/4".....	01818
14.)	Nipple, 1-1/2" x 2" heavy wall.....	01840
15.)	Nipple, 1-1/4" x 5-1/2".....	01874



BLAST POTS & ACCESSORIES

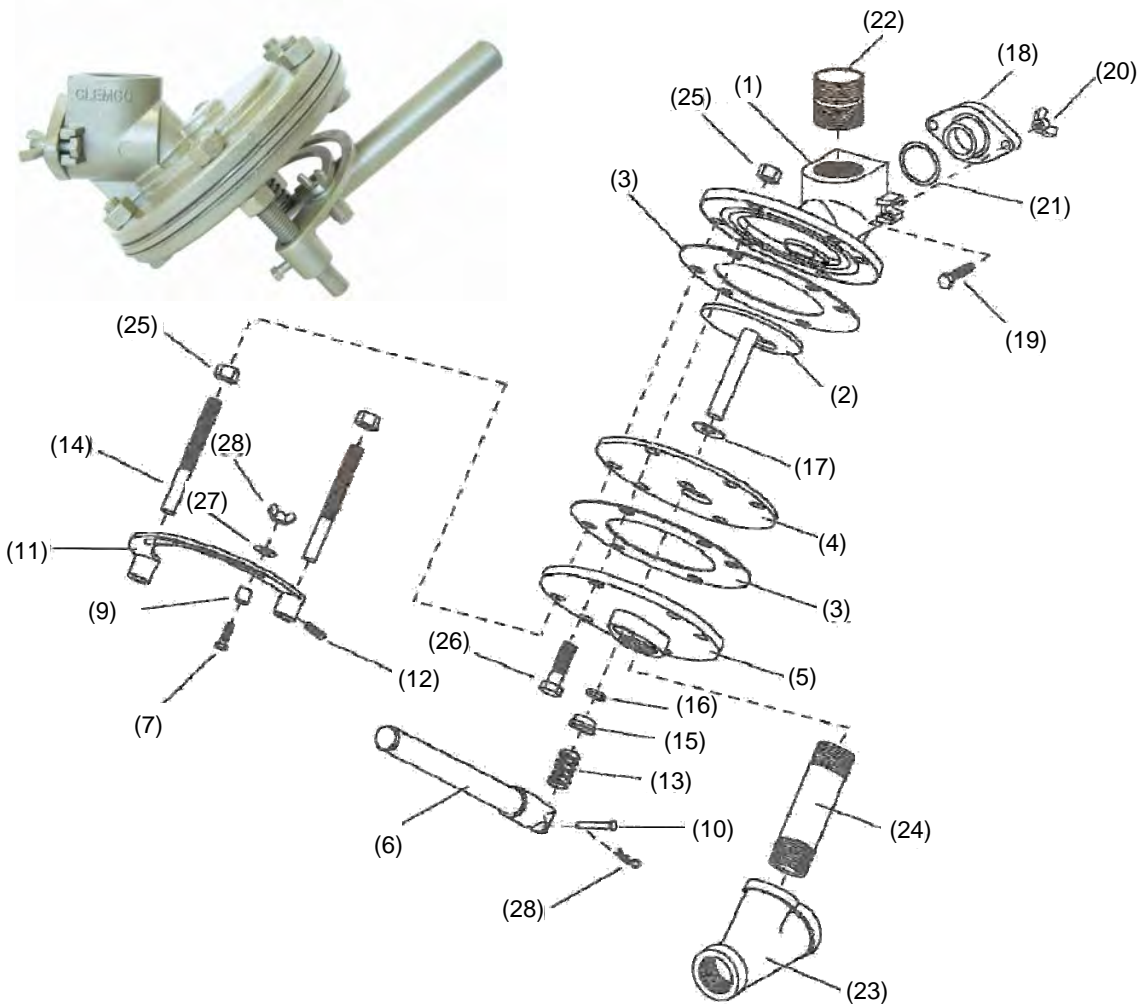


METERING VALVES



Flat Sand Abrasive Metering Valve

Item Description	Stock No.	Item Description	Stock No.
(-) Metering Valve, complete.....	02427	15. Packing gland.....	02437
1. Upper Body.....	02422	16. O-Ring, 7/8" OD.....	21165
2. Valve disc w/stem.....	02423	17. Gasket, shaft.....	02439
3. Gasket, rubber, 2 required.....	02424	18. Inspection plate.....	02440
4. Disc-stainless.....	02425	19. Cap screw 5/16-NCx1" hex head.....	03152
5. Lower Body.....	02426	20. Wing nut, 5/16-NC.....	03213
6. Metering handle, heavy duty.....	20498	21. O-Ring.....	01990
7. Cap screw, 1/4-NC x 1" hex head.....	03053	22. Nipple, heavy wall 1-1/2"xclose.....	01791
8. Wing nut, 1/4-NC.....	03113	23. Wye, standard 1-1/4".....	01818
9. Handle bolt spacer.....	02431	24. Nipple, heavy wall 1-1/4"x5".....	01860
10. Valve handle pin.....	20246	25. Nut, 1/2-NC hex.....	03511
11. Gauge unit.....	02433	26. Cap screw, 1/2-NCx1-3/4" hex head.....	03455
12. Set screw, 1/4-NCx1/2" Square head....	03080	27. Washer, 1/4" Flat.....	03116
13. Spring, compression.....	01982	28. Hitch pin.....	20245
14. Stud.....	02436		



BLAST POTS & ACCESSORIES

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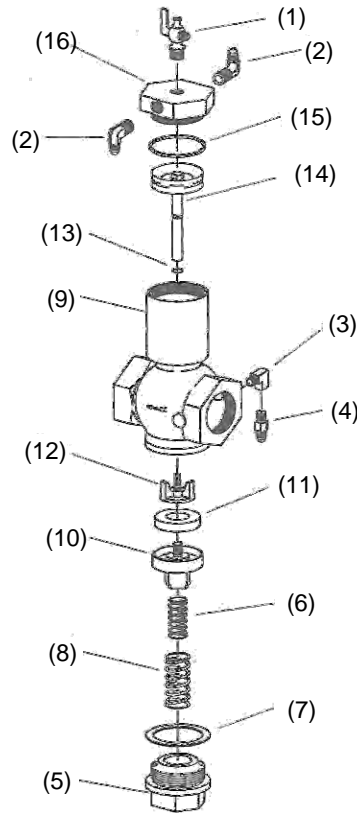
Air Inlet Valve



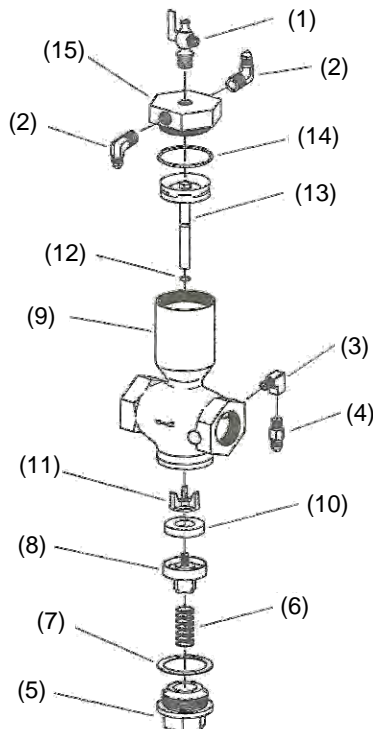
Air Inlet Valve Parts

1-1/2" Inlet Valve

Item Description	Stock No.
(-) 1-1/2" Inlet Valve, Complete.....	01995
1. Petcock 1/4" npt.....	01993
2. Elbow, 1/4" npt adaptor.....	02513
3. Elbow, 1/8" brass street.....	03993
4. Adaptor 1/8" npt with 1/16" orifice.....	01945
5. Bottom Cap.....	02001
6. *Spring, inner, 5/8"x1-11/16" long, (1)....	01982
7. *Gasket, bottom cap, (1).....	02006
8. *Spring, outer, (1).....	02000
9. Valve Body.....	01996
10. Valve Plug.....	01999
11. *Washer, valve plug, (2).....	01998
12. *Retainer, valve plug washer, (1).....	02002
13. *)-Ring, 7/16" OD, (1).....	02008
14. Piston and rod assembly.....	02003
15. *O-Ring 2-1/4" OD, (1).....	02007
16. Cylinder cap.....	01997
(-) Service kit, includes items marked *, Quantity is shown in ().....	01927



1" Inlet Valve



Item Description	Stock No.
(-) 1" Inlet Valve, complete.....	01980
1. Petcock 1/4" npt.....	01993
2. Elbow, 1/8" npt adaptor.....	02827
3. Elbow, 1/8" brass street.....	03993
4. Adaptor 1/8" npt with 1/16" orifice.....	01945
5. Bottom Cap.....	01985
6. *Spring, 5/8"x1-11/16" long, (1).....	01982
7. *Seal, bottom cap, (1).....	01989
8. Valve plug.....	01984
9. Valve Body.....	01981
10. *Washer, valve plug, (2).....	01969
11. *Retainer, valve plug washer, (1).....	01986
12. *O-Ring 3/16" IDx1/16", (1).....	01992
13. Piston and rod assembly.....	01987
14. *O-Ring 1-3/4" OD, (1).....	01990
15. Cylinder Cap.....	01983
(-) Service kit, includes items marked *, Quantity is shown in ().....	01929

BLAST POTS & ACCESSORIES



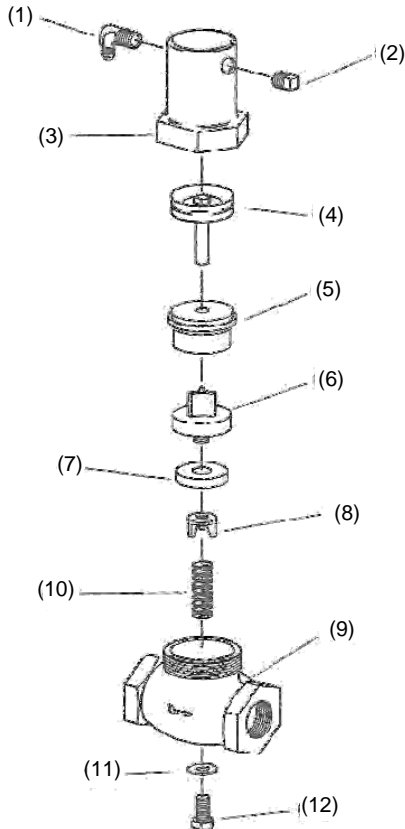
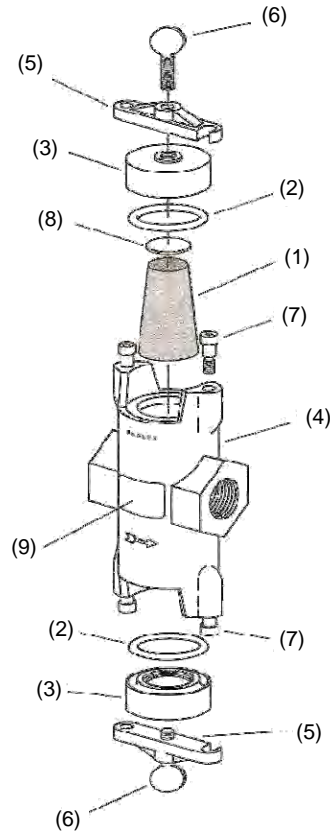
Abrasive Trap



Abrasive Trap

Abrasive Trap

Item Description	Stock No.
(-) Abrasive Trap, Complete.....	02011
1. *Screen, (3).....	02012
2. *O-Ring, (2).....	02013
3. Cap.....	02014
4. Body.....	02015
5. Lock bar.....	02016
6. Screw, 3/8" NCx1" thumb.....	03289
7. Shoulder screw, 3/8" x 3/8".....	03291
8. *Gasket, screen, 1/8" Thick, (1).....	02434
9. Decal, clean screen.....	02129
(-) Service kit, includes items marked *, Quantity is shown in ().....	01925



1" Piston Outlet Valve

Item Description	Stock No.
(-) 1" Piston outlet valve, complete.....	01967
1. Elbow, 1/4" npt adaptor.....	02513
2. Plug, 1/4" npt.....	01950
3. Bonnet.....	01970
4. Piston and rod assembly.....	01976
5. Plug and spindle guide.....	01971
6. *Valve plug, (1).....	01972
7. *Washer, valve plug, (2).....	01969
8. *Retainer, valve plug washer, (1).....	01986
9. Valve Body.....	01968
10. *Spring, 7/16"x1-5/8" long (1).....	01974
11. Nylon Washer.....	01979
12. Cap screw, 3/8-NCx3/4".....	03331
(-) Service kit, includes items marked *, Quantity is shown in ().....	01982



BLASTING ACCESSORIES

CLEMCO



Hollo-Blast



The Clemco Hollo-Blast cleans the full 360 degree inside diameter of pipe to white metal finish. It operates without need of rotating the pipe or the tool. deposits such as rust, carbon millscale, coke and paint are easily removed. The Hollo-Blast will accommodate pipes from 2 inch to 12 inch I.D. and lengths up to 40 feet. Any abrasive (except aluminum oxide or silicon carbide) 20 mesh or finer may be used. In operation, the proper model is attached to a pipe lance and connected to Clemco blast hose. The Hollo-Blast is inserted into the pipe, the Clemco blast machine is started and the Hollo-Blast is manually pushed through the pipe. Abrasive hits the tungsten carbide deflector tip and fans out to clean the 360 degree interior. Air will blow spent abrasive and contaminants out of the pipe. The rate of cleaning depends on deposits being removed. Hollo-Blast is available with 1/2 inch or 5/8 inch nozzles. Standard HB-1 delivered with 1/2 inch nozzle. Air consumption, 1/2 inch 200 CFM, 5/8 inch 350 CFM

Model HB-1

Hollo-Blast with 1/2 inch nozzle and tungsten carbide tip

Model HB-2

Hollo-Blast with 5/8 inch nozzle and tungsten carbide tip

Model HBB

Hollo-Blast with 1/2 inch nozzle and boron carbide tip

Model HBC-1

Centering Collars mount on Hollo-Blast to accommodate pipes from 3 inch to 5 inch I.D. in 1/2 inch increments

Model HBC-2

Centering Carriages is adjustable between 5 inch and 12 inch I.D. The lightweight aluminum carriage is quickly adjusted by knurled locknut



Hollo-Blast Jr.

The Hollo-Blast Jr. is designed to clean pipe or tubing from 3/4 inch to 2 inch I.D. in 1/4 inch and 1/2 inch increments. The tool is mounted on 3/8 inch pipe lance for the length of tubing to be cleaned. A tungsten carbide lined reducer adapts the 3/8 inch lance to standard straight 1-1/4 inch thread for attachment to blast machine hose. Operation of the Hollo-Blast Jr. is the same as Hollo-Blast. Air consumption is 80 CFM. Recommended abrasive size is 30 mesh or finer

BLASTPOTS & ACCESSORIES

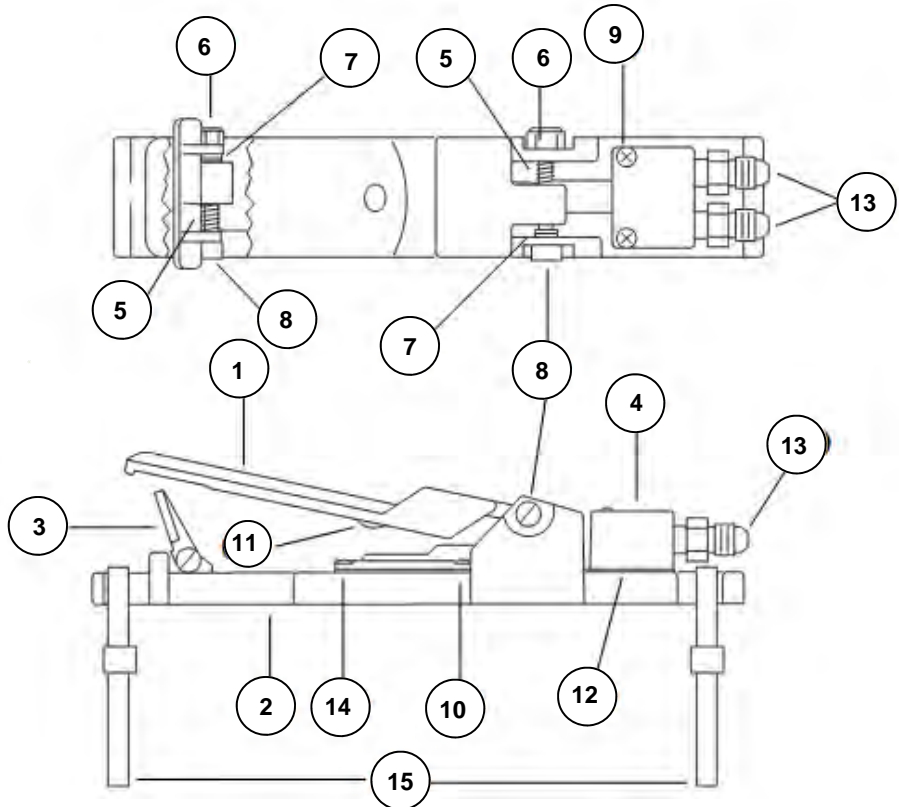
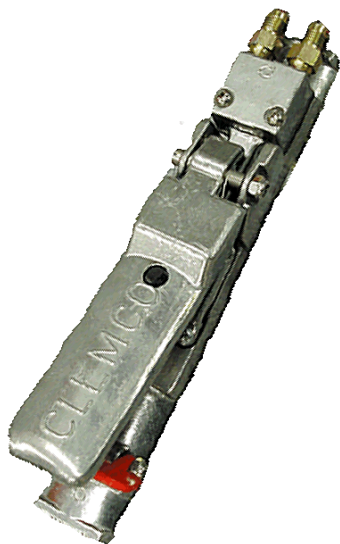
PNEUMATIC DEADMAN VALVE



RLX II Pneumatic Control Handle Assembly

BLAST POTS & ACCESSORIES

Item	Description	Stock No.
(-)	RLX II Pneumatic control handle, complete.....	10565
1.)	Handle.....	10573
2.)	Body.....	10568
3.)	Lever Lock.....	10564
4.)	Pneumatic adaptor.....	10562
5.)	Spring, lever, 2 reqd.....	05823
6.)	Nut, 8-32 lock, s/s, 2 reqd.....	05815
7.)	Spacer washer s/s, 4 reqd.....	05434
8.)	Screw, 3/16" x 1 1/4" shoulder, 2 reqd.....	05817
9.)	Screw, 8-32 x 1" round head, 2 reqd.....	05819
10.)	Screw, 4-40 x 3/8" fillister head, 2 reqd.....	05818
11.)	Rubber button bumper.....	05821
12.)	Gasket, pneumatic adaptor.....	10563
13.)	Adaptor 1/8" NPS, 2 reqd.....	01940
14.)	Screw, 8-32 x 3/8" s/s round head, 2 reqd.....	05814
15.)	Tie, nylon wire, 2 reqd.....	02195

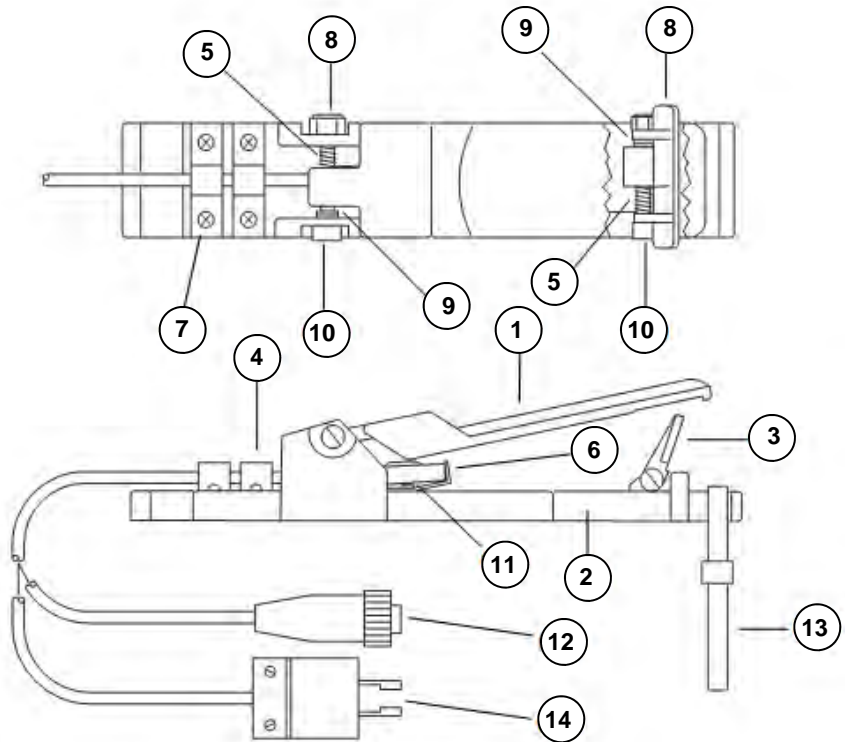


ELECTRIC DEADMAN VALVE



RLX Electric Control Handle Assembly

Item	Description	Stock No.
(-)	RLX Electric handle w/lo profile connector.....	10840
(-)	RLX Electric handle w/twist-lock connector.....	05801
1.)	Handle.....	10573
2.)	Body.....	10568
3.)	Lever Lock.....	10564
4.)	Clamp, switch cord.....	05810
5.)	Spring, lever, 2 reqd.....	05823
6.)	Switch, electric with cord.....	05813
7.)	Screw, 8-32 x 3/8" s/s rnd. hd., 4 reqd.....	05814
8.)	Nut, 8-32 lock, s/s, 2 reqd.....	05815
9.)	Spacer washer s/s, 4 reqd.....	05434
10.)	Screw, 3/16" x 1 1/4" shoulder, 2 reqd.....	05817
11.)	Screw, 4-40 x 3/8" fillister head, 2 reqd.....	05818
12.)	Connector, lo-profile, male (for 10840 only).....	10828
13.)	Tie, nylon wire, 2 reqd.....	02195
14.)	Connector, twist-lock, male (for 05801 only).....	02899



BLAST POTS & ACCESSORIES



WESTERN TECH



**DEADMAN REMOTE CONTROL
1000 SERIES**



**1001-REP 2 or 3 Wire
Repairable Electric Deadman Control**

- Use with any electric remote control system
- 2-Wire or 3-Wire configuration
- All Polyurethane construction
- Can be custom built with longer cord and quicker disconnect
- Comes complete with 4' of cord and Ball & Chain

Features:

- 1001-REP Repairable Electric Deadman Control
- Suitable for any electric remote control system
- Two-wire or three-wire
- Can be custom built with longer cord and quick disconnect
- All polyurethane construction

Part No.	Description
1001-REPK	Complete 2-Wire Deadman Remote Control Switch with Ball & Chain
1001-REP-3K	Complete 3-Wire Deadman Remote Control Switch with Ball & Chain
1102	Ball & Chain
1001-KIT	2-Position Switch 4' of 2-Wire Control Cord with Ring Lugs Installed Terminal Screws & Assembled Jumper
1001-KIT-3	3-Position Switch 4' of 3-Wire Control Cord with Ring Installed Terminal Screws & Assembled Jumper
3101	Toggle Boot
1001-CAP	Red Cap





DEADMAN REMOTE CONTROL 1000 SERIES



1001-4K Sealed 2-Wire Electric Deadman Control

- Preferred by contractors worldwide for maximum safety and reliability in extremely harsh conditions
- All polyurethane construction
- Use with any electric remote control system
- Comes complete with 4' of cord, replaceable toggle switch boot, and Ball & Chain
- Can be custom built with longer cord and quick disconnect

Features:

- 1001-4 Sealed Electric Deadman Control
- Preferred by contractors worldwide for maximum safety and reliability in extremely harsh conditions
- All polyurethane construction
- For any electric remote control system
- Can be custom built with longer cord and quick disconnect

Part No.	Description
1001-4K	Complete Deadman Remote Control Switch with 4' of Cord and Replaceable Toggle Switch Boot and Ball & Chain
1102	Ball & Chain
3101	Toggle Switch Boot - Electric
3113-1	3 Part 1/2" Cord Connector
3111	Hose Clamp

MANUS LIGHTING



BLAST LIGHTING

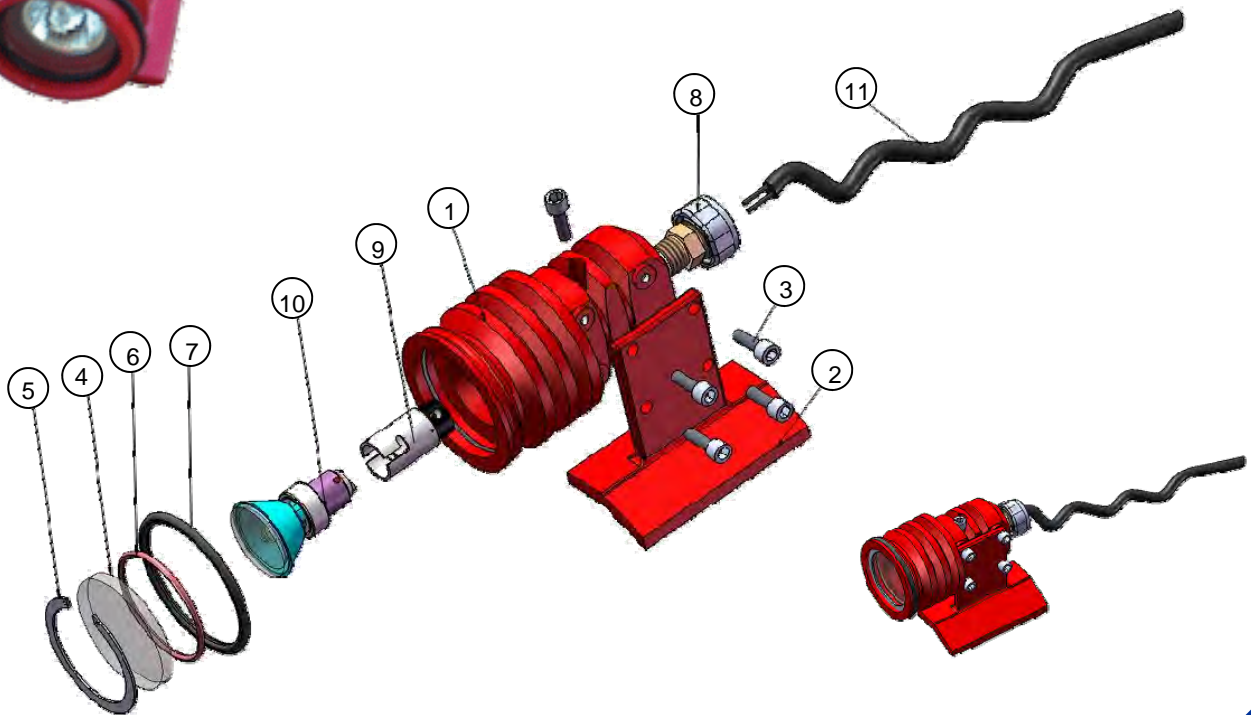
12-Volt Abrasive Blast Light

This all metal constructed Abrasive Light is durable, lightweight and economical. The cast aluminum ribbed body design allows for long wear life against blast media ricochet.

FEATURES/SPECIFICATIONS

- Low voltage operation.
- 20 watt halogen lamp.
- (35 watt optional)
- Weight is 19 oz
- 10' swaged power cord.
- 1/4" thick high heat, impact resistant replaceable lens.

Item	Part #	Description
1	290280	Blast Light Body Only C/W Bracket
2	290278	Hose Mount Bracket
3		Screw M5X15
4	290287	Pyrex Lens C/W O Ring
5	290288-A	Outer Lens Retaining Clip
6	290289	Lens Silicon O Ring
7	290276	Bump Ring
8	2902810	Strain Relief Fitting, Nylon
9	290282	Lamp Socket Only
10	290286	20 Watt Replacement Bulb
11	024012	Blast Light Power Cord /Ft



MANUS LIGHTING



120-Volt Abrasive Blast Light

Each system includes a 120 volt power supply unit which is mounted in a CSA/UL approved electrical box, power transformer, on/off switch(s), on/off indicator light(s), all fuses, twist-lock receptacles, main power indicator light, and indicator for 12 volt remote control connection. Also included with each system is the required amount of MOD-U-BLAST 12 volt Blast Light Assemblies c/w 55' power cord and fittings. Free standing and/or wall mountable.

*Only CSA/UL Approved Components Go Into Each MOD-U-BLAST System.

Stock #	Description
290291	1-Outlet, Plus Remote, System
290292	2-Outlet, Plus Remote, System
290294	4-Outlet, Plus Remote, System
290296	6-Outlet, Plus Remote, System



*4 outlet light box with light shown in picture.



Stock #	Description
290492	1 Light System c/w 75' Cable Assembly
290493	1 Light System c/w 125' Cable Assembly
290491	1 Light System c/w 150' Cable Assembly
290482	2 Light System c/w 2 X 75' Cable Assembly



WESTERN TECH



Western Technology, Inc.
For All Your Lighting Needs

MightyLight™
No Air LED Blast Light
3400LED Series

Features & Benefits

- The 3400LEDS No Air Blast Light Single Outlet System comes standard with the Light, Power Pack, 100' 16/2 Western Technology Extreme Cable™ and our new "Low-Boy" stanchion mount
- Polyurethane construction makes this unit durable, long lasting and lightweight
- Other power options are available to match lower voltage power packs designed to run on 12VAC, 17VAC or 8-28VDC
- Cabled with Western Technology's abrasive/cut resistant Extreme Cable™ this system weighs less than 7 lbs.
- LED eliminates cost of bulbs and the associated bulb replacement downtime
- Directional, bright, white light can improve productivity up to 25%
- Multi-outlet power pack and other cable length options available.



<u>Part No.</u>	<u>Description</u>
3400LEDS	Complete No Air LED Blast Light System with power pack & 100' Extreme Cable
3400LEDS150	Complete No Air LED Blast Light System with power pack & 150' Extreme Cable
3400LEDBAT100	No Air LED Blast Light with battery clamps & 100' Extreme Cable (8-28VDC)
3400LED10-OEM	Light only with 10' Extreme Cable (8-28VDC)
3400LED10ACDC	Light only with 10' Extreme Cable (12VAC, 17VAC or 8-28VDC)
3609B	Pyrex replacement lenses—box of 12
3112LB	Low-boy stanchion

WESTERN TECH



Western Technology, Inc.
For All Your Lighting Needs

**12V AC/DC "No Air"
Abrasive Blast Light
3400 Series**

Features & Benefits

- 3400S Abrasive Blast Light Single Outlet, No Air system comes standard with Light, Power Pack and 75' 14/2 premium power cord.
- Compressed air not required for operation
- Designed to run on 12V either AC or DC power supply, also available in 220V
- Model 3400B supplied with battery clamps for connecting directly to a 12VDC battery
- All Polyurethane construction makes this unit durable, long lasting and light weight
- Multi-outlet power packs and additional cable lengths



<u>Part No.</u>	<u>Description</u>
3400S	Complete 12V No Air System with Power Pack & 75' Cord
3400S150	Complete 12V No Air System with Power Pack & 150' Cord
3400B	Complete 12V No Air Light System with Battery Clamps & 75' Cord
3400	Light Only with 6' Cord
3427	Power Pack Only
3406B	12 Volt Halogen Bulbs Box of 10
3109B	Pyrex Lenses Box of 12
3112HC	Light Stanchion (optional)

Kansas City, KS
800-933-3643

Davenport, IA
800-513-9857

Tulsa, OK
800-364-5452

Houston, TX
877-905-0526

St. Louis, MO
800-513-9857

Ft. Worth, TX
800-480-8957



WESTERN TECH



Western Technology
For All Your Lighting Needs

**17V “Air Cooled”
Abrasive Blast Light
3300 Series**

Features & Benefits

- 3300S Air-cooled Abrasive Blast Light Single Outlet System comes with light, power pack and cord connectors.
- Integrates compressed air to cool bulb for maximum illumination
- System provides dust penetrating light with maximum operator flexibility
- All polyurethane construction makes this unit durable, long lasting and light weight
- 120V in –17V out; 220V available
- Multi-outlet power packs also available
- Designed for use with optional light stanchion #3112
- Can be wired to your specific cable length requirement
- Inquire about additional options.



<u>Part No.</u>	<u>Description</u>
3300S	Complete System with Power Pack, Light & Cord Connectors
3300	Light only with 6' of cord
3127	Power Pack only
3106B	Replacement Bulbs-10 per package
3109B	Pyrex Replacement lens-12 per package

WESTERN TECH



Western Technology
For All Your Lighting Needs

**The Brick
LED Light
9610 Series**

Features & Benefits

- UL and CSA Certified Explosion Proof compliant for use in:
 - Class I Division 1 & 2, Zone 1 & 2, Groups C, D
 - Class II Division 1 & 2, Zone 20, 21 & 22, Groups E, F & G
- Suitable for Hazardous and Wet Locations
- Certified a Portable Luminary-Hand Held, T-4, T-5, 2 Amp, Grounded
- Multiple Mounting Options-Unique Magnetic & Mechanical Designs
- Constructed to survive jobsite handling
- Ergonomic Design-Light Weight
- Compact Protective Paint Overspray Covers
- Protective Abrasive Blast Lens
- Interchangeable Anti-Glare Diffusers-Color Filters
- Minimal Operating Cost and Minimal Maintenance
- Instant On/Instant Off



<u>Part No.</u>	<u>Description</u>
9610A	Explosion Proof LED Light head, 100 ft. cable, NON-Explosion Proof Power Connection Box and Plug
9610C	Explosion Proof LED Light head, 100 ft. cable, Explosion Proof Power Connection Box and standard explosion proof 15 amp plug
9610D	NON-Explosion Proof LED Light head, 100 ft. cable, NON-Explosion Proof Power Connection Box and Plug

Kansas City, KS
800-933-3643

Davenport, IA
800-513-9857

Tulsa, OK
800-364-5452

Houston, TX
877-905-0526

St. Louis, MO
800-513-9857

Ft. Worth, TX
800-480-8957

CANFIELD &
JOSEPH, INC.

BLASTLIGHTING

WESTERN TECH



Western Technology
For All Your Lighting Needs

**Explosion Proof Flood Light
7100-SLXP Series**

Features & Benefits

- UL Listed Explosion Proof
- 70 Watt Metal Halide swivel-mounted, multi-directional Explosion Proof light
- Illuminate 13,000 sq. feet
- Rated for outdoor marine/saltwater environment
- 1/4" thick heat and shock resistant, tempered glass
- Sealed lens and cover prevent moisture and dust entry
- Corrosion resistant, copper-free marine-grade aluminum housing helps assure safe, reliable operation
- Durable handle and knob provided for ease of mobility and secure positioning
- Base can be mounted or suspended from cable to lower into tank, silo or manhole
- Comes standard with 100 ft 16/3 cable and plug
- 13"x16"x12.5" fixture weighs about 23 lbs



<u>Part No.</u>	<u>Description</u>
7100-SLXP	Explosion Proof 70 Watt Wide Area Floodlight Fixture
7100SLXP-70MHBULB	70 Watt Metal Halide Bulb



WESTERN TECH

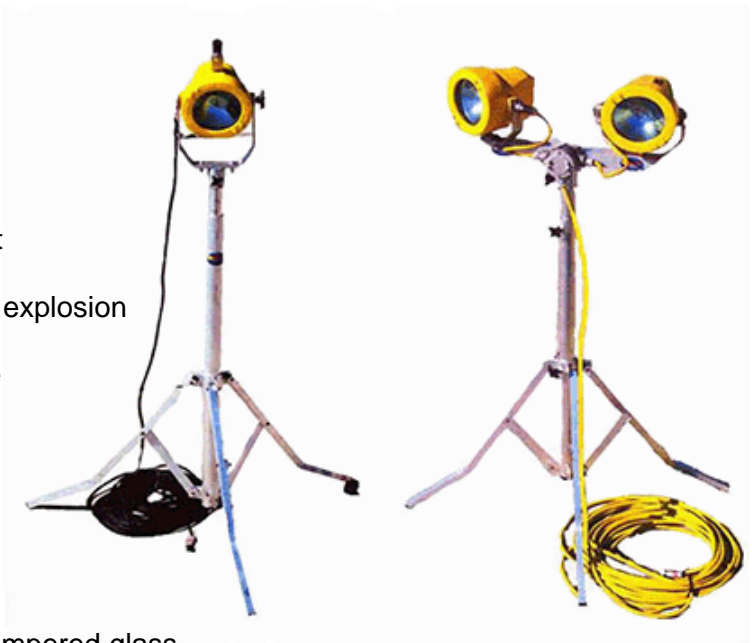


Western Technology For All Your Lighting Needs

Explosion Proof Metal Halide Quad Pod Mount Wide Area Light 7100-SLXP-70MH-2QP

Features & Benefits

- UL listed explosion proof
- 70 Watt metal halide lamp
- Swivel-mounted multi-directional light
- 100 foot 16/3 SOWA electric cable & explosion
- Designed for marine/wet location use
- Single or dual light head available
- Ladder mount option also available
- Heavy duty cast aluminum
- Heat and shock resistant 3/4" thick tempered glass
- Sturdy hand knob for easy aiming and tightening to maintain position



<u>Part No.</u>	<u>Description</u>
7100-SLXP-70MH-1qp	Single Head Explosion Proof 70 Watt Wide Area Floodlight Fixture on Quad pod
7100-SLXP-70MH-2QP	Dual Head Explosion Proof 70 Watt Wide Area Floodlight Fixtures on Quad pod
7100-SLXP-70MH-BULB	70 Watt Metal Halide Bulb



BLAST NOZZLES

A Guide to Blasting Nozzle Selection

Choosing the right blast nozzle for each application is simply a matter of understanding the variable that affect cleaning performance and job costs. There are four basic questions to answer for optimum cost/performance

1.) What blast pattern do you want?

A nozzle's bore shape determines its blast pattern. Nozzles generally have either a straight bore or a restricted venturi bore. **Straight Bore** nozzles (Figure 1, number 1) create a tight blast pattern for spot blasting or blast cabinet work. These are best for smaller jobs such as parts cleaning, weld seam shaping, cleaning handrails, steps, grillwork, or carving stone, and other materials. **Venturi Bore** nozzles (Figure 1, numbers 2 and 3) create wide blast pattern and increase abrasive velocity as much as 100% for a given pressure, Venturi nozzles are the best choice for greater productivity when blasting larger surfaces. Long venturi style nozzles like the BRUISER® blasting nozzles, for example, yield about a 40% increase in productivity compared to straight bore nozzles, while abrasive consumption can be cut approximately 40%. Double venturi and wide throat nozzles are enhanced versions of the long venturi style nozzles.

The **double venturi** style (Figure 1, number 4) can be thought of as two nozzles in a series with a gap and holes between to allow the insertion of atmospheric air into the downstream segment of the nozzle. The exit end is also wider than a conventional nozzle. Both modifications are made to increase the size of the blast pattern and minimize the loss of abrasive velocity.

Wide throat nozzles (Figure 1, number 5) feature a large entry throat and a large, diverging exit bore. When matched with the same sized hose they can provide a 15% increase in productivity over nozzles with a smaller throat. When wide throat nozzles also feature a larger diverging exit bore (e.g., BAZOOKA® nozzle) they can be used at higher pressures to yield up to a 60% larger pattern with lower abrasive use.

It's also a good idea to have angle nozzles available for tight spots like bridge lattice, behind flanges, or inside pipes. Many operators waste abrasive and time waiting for ricochet to get the job done. The little time it takes to switch to an angle nozzle is always quickly recovered and total time on the job is reduced.

Figure 1. Nozzle Types

1. Straight Bore
2. Conventional design long Venturi
3. Laminar flow design long Venturi
4. Double Venturi
5. High Pressure

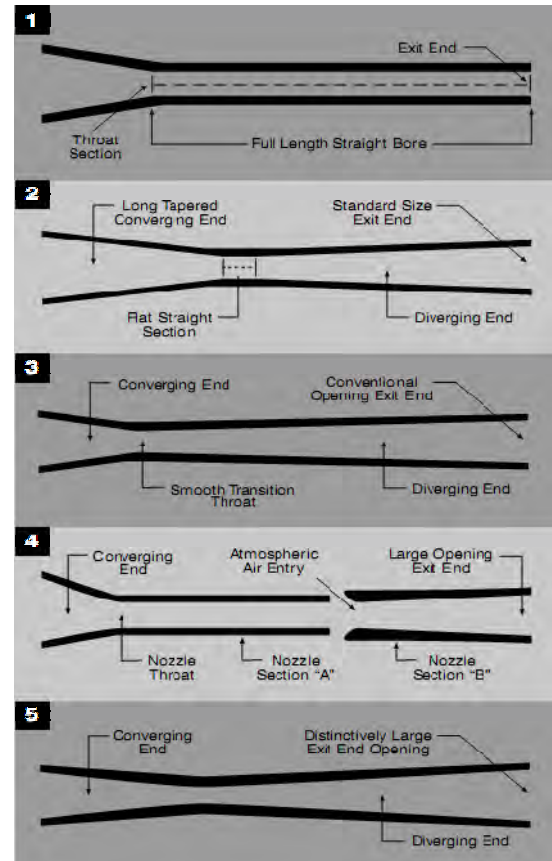
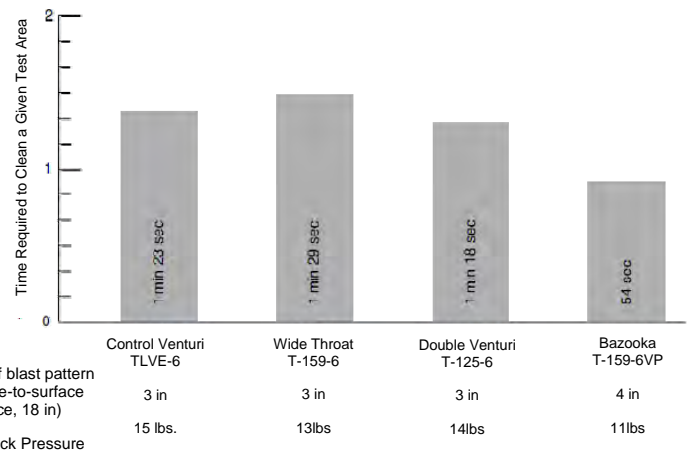


Figure 2. Nozzle Performance Comparison



Data compares the time required of different nozzles to clean a given test area based on the nozzles blast pattern. Also shown is the average back pressure exerted by each nozzle, an indicator of the effect of nozzle selection on operator fatigue



BLAST NOZZLES



Air and Pressure Requirements

2.) Can your compressed air supply support the nozzle?

As a general rule, the air supply system should be able to provide at least 50% more air volume (cfm) than a new nozzle would need to develop the required working blasting pressure, whether that is 100 psi or 141 psi. This ensures a nozzle can continue to provide good service even after it is slightly worn. Remember, though, excessive wear should not be allowed because productivity decreases dramatically.

Keep in mind, too, the nozzle entry throat must match the inside diameter of your air supply hose. The wrong size combination can lead to wear points, pressure drop, and excessive internal turbulence.

Matching nozzle size and compressor size for require production rate

Production rate required (sq.ft/hr)	Blast nozzle orifice	Production rate at 100 psi nozzle pressure	Production rate at 90 psi nozzle pressure	Production rate at 80 psi nozzle pressure	Compressor size CFM at 100 psi nozzle pressure
Up to 100	1/4"	100	85	70	185 cfm 40-50 h.p.
101-160	5/16"	160	136	112	250 cfm 60-75 h.p.
161-230	3/8"	230	195	161	375 cfm 75-100 h.p.
231-317	7/16"	317	270	222	450 cfm 125 h.p.
318-400	1/2"	400	340	280	600 cfm 150 h.p.

This chart is estimated and based upon use of a long venturi nozzle, SSPC-6 commercial blast specification

Nozzle Pressure, abrasive velocity, and efficiency

Blast Nozzle Pressure	Estimated Abrasive Velocity	Estimated Efficiency Factor
140 psi	588 mph	160%
125 psi	525 mph	138%
110 psi	462 mph	115%
100 psi	420 mph	100%
95 psi	400 mph	93%
90 psi	365 mph	85%
85 psi	330 mph	78%
80 psi	270 mph	70%
75 psi	210 mph	63%
70 psi	190 mph	55%

Bore Size and Nozzle Materials

3.) What bore size do you need?

For maximum productivity, select the nozzle bore size based on the desired blast pressure and the available air pressure and flow. For example, assume you are running a 375 cfm compressor at 80% capacity. In addition to the blast cleaning nozzle, the compressor is supplying air to an air helmet and other components such as air motors and pneumatic controls, leaving 250 cfm available for the nozzle. Referring to the chart on the previous page, you can see that 250 cfm is sufficient for a 7/16" nozzle operating at 100 psi. A larger nozzle, or a worn 7/16" nozzle, will require more air flow to maintain 100 psi. The extra flow requirement will either overwork you compressor or decrease productivity. On the other hand, choosing a nozzle with a bore smaller than your compressor can supply will result in less than maximum productivity from the system.

4.) What are the best nozzle material choices?

Nozzle material selection depends on the abrasive you choose, how often you blast, the size of the job and the rigors of the job site. Here are general application guidelines for various materials.

Aluminum Oxide "Alumina" (ceramic)

offer good service life at a lower price than other materials discussed here. They are a good choice in low usage applications where unit price is a primary factor and nozzle life is less important.

Tungsten carbide nozzles offer long life and economy when rough handling can't be avoided and mineral or coal slag abrasives are used. All tungsten carbide nozzles are not equal. Note that all Kennametal tungsten carbide nozzles feature top wear grade material and durable construction.

Service life comparisons

Approximate Service Life In Hours			
Nozzle Material	Steel Shot/Grit	Slag	Aluminum Oxide
Aluminum Oxide	20-40	10-30	1-4
Tungsten Carbide	500-800	300-400	20-40
BP200 SiAlON	500-800	300-400	50-100
Boron Carbide	1500-2500	750-1500	200-1000
ROCTEC®	2500-5000+	1500-3000+	1000-2000+

BP200 SiAlON nozzles offer service life and durability similar to tungsten carbide, but these nozzles are only about half the weight of tungsten carbide nozzles. BP200 SiAlON nozzles are an excellent choice when operators are on the job for long periods and prefer a lightweight nozzle.

Boron carbide nozzles provide long life with optimum air and abrasive use. Boron carbide is ideal for aggressive abrasives such as aluminum oxide and selected mineral aggregates when rough handling can be avoided. Boron carbide will typically outwear tungsten carbide by five to ten times

BLAST NOZZLES

BLAST NOZZLES

Venturi Nozzles

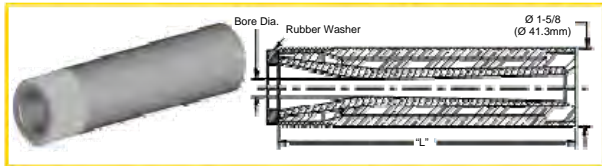
Long Venturi Nozzles

Long venturi style nozzles yield about a 40% greater production rate than straight bore nozzles. The internally tapered design of the venturi nozzle accelerates and evenly distributes the abrasive over the entire blast pattern. These nozzles are designed for use with a 1" I.D. blast hose for maximum cutting action on hard to clean surfaces.



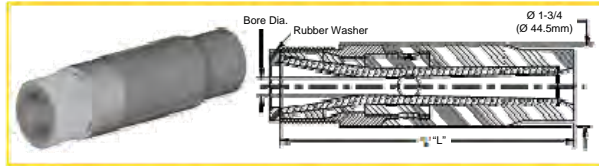
Tungsten carbide long venturi nozzles

TLVE-Bruiser® Series tungsten carbide long venturi nozzles



For the most physically demanding operations and greatest resistance against breakage, we recommend the top of the line TLVE-Bruiser® series. This tungsten carbide nozzle features an all-brass outer body with a polyurethane inner cushion.

TLVE-P Series tungsten carbide long venturi nozzles

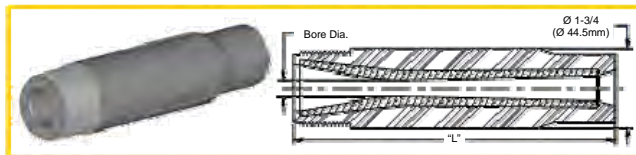


For physically demanding operations with less resistance against breakage than our top-of-the-line TLVE-Bruiser®, we recommend the TLVE-P (poly series). This tungsten carbide nozzle features brass threads and a reinforced polyurethane upper body.

Venturi Bore	TLVE Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
1915630	TLVE-3	3/16" (4.8mm)	4-1/4" (108mm)
1915640	TLVE-4	1/4" (6.4mm)	5-3/8" (136.5mm)
1915650	TLVE-5	5/16" (7.9mm)	5-3/4" (146.1mm)
1915660	TLVE-6	3/8" (9.5mm)	6-3/4" (171.5mm)
1915670	TLVE-7	7/16" (11.1mm)	8" (203.2mm)
1915680	TLVE-8	1/2" (12.7mm)	9" (228.6mm)

Venturi Bore	TLVE-P Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
2015630	TLVE-3P	3/16" (4.8mm)	4-3/8" (111.1mm)
2015640	TLVE-4P	1/4" (6.4mm)	5-1/2" (139.7mm)
2015650	TLVE-5P	5/16" (7.9mm)	5-7/8" (149.2mm)
2015660	TLVE-6P	3/8" (9.5mm)	6-7/8" (174.6mm)
2015670	TLVE-7P	7/16" (11.1mm)	8-1/8" (206.4mm)
2015680	TLVE-8P	1/2" (12.7mm)	9-1/8" (231.8mm)

TLVE-AP Series tungsten carbide long venturi



The TLVE-AP series is recommended where low price is most important. Built with polyurethane outer jacket and threads, it's competitive in price with "economy" nozzles without sacrificing the quality of a long-life tungsten carbide liner

Venturi Bore	TLVE-AP Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
2015633	TLVE-3AP	3/16" (4.8mm)	4-1/2" (114.3mm)
2015643	TLVE-4AP	1/4" (6.4mm)	5-1/2" (139.7mm)
2015653	TLVE-5AP	5/16" (7.9mm)	6" (152.4mm)
2015663	TLVE-6AP	3/8" (9.5mm)	7" (177.8mm)
2015673	TLVE-7AP	7/16" (11.1mm)	8-1/4" (209.6mm)
2015683	TLVE-8AP	1/2" (12.7mm)	9-1/4" (235mm)

BLAST NOZZLES

BLAST NOZZLES

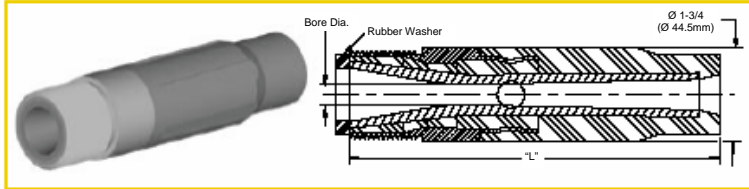
Venturi Nozzles

Wide Throat Long Venturi Nozzles

BP200 SiAION long venturi nozzles

Kennametal's exclusive BP200 SiAION high performance long venturi nozzles are designed to replace both silicon carbide and silicon nitride. These nozzles resist breakage better than silicon carbide. Though they're as durable as tungsten carbide, they're lighter in weight to reduce operator fatigue. Designed to be used with 1" (25mm) or 1-1/4" (32mm) I.D. hose.

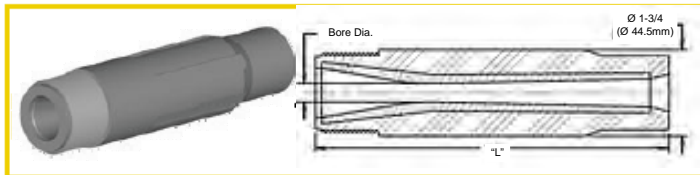
SN156-P Series BP200 SiAION venturi nozzles



Lightweight BP200 SiAION liner with polyurethane jacket and brass threads.

Venturi Bore	SN156-P Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
2615630	SN156-3P	3/16" (4.8mm)	4.18" (106.2mm)
2615640	SN156-4P	1/4" (6.4mm)	5.33" (135.4mm)
2615650	SN156-5P	5/16" (7.9mm)	5.70" (144.8mm)
2615660	SN156-6P	3/8" (9.5mm)	6.70" (170.2mm)
2615670	SN156-7P	7/16" (11.1mm)	7.95" (202.0mm)
2615680	SN156-8P	1/2" (12.7mm)	9.00" (228.6mm)

SN156-AP Series BP200 SiAION venturi nozzles



Lightweight BP200 SiAION liner with all polyurethane jacket and threads.

Venturi Bore	SN156-P Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
2615633	SN156-3AP	3/16" (4.8mm)	4.33" (110.0mm)
2615643	SN156-4AP	1/4" (6.4mm)	5.45" (138.4mm)
2615653	SN156-5AP	5/16" (7.9mm)	5.83" (148.1mm)
2615663	SN156-6AP	3/8" (9.5mm)	6.83" (173.5mm)
2615673	SN156-7AP	7/16" (11.1mm)	8.07" (205.0mm)
2615683	SN156-8AP	1/2" (12.7mm)	9.14" (232.2mm)

BLAST NOZZLES

BLAST NOZZLES

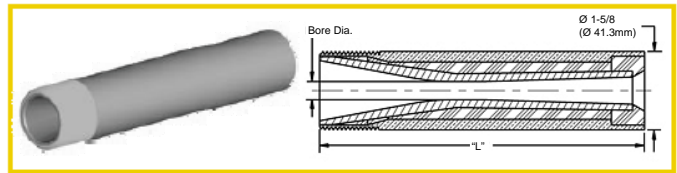
Venturi Nozzles

Wide Throat Long Venturi Nozzles

Tungsten carbide wide throat long venturi nozzles

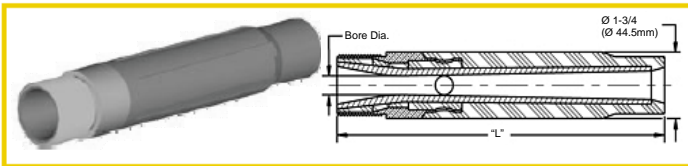
All of our wide throat nozzles are designed to be used with 1-1/4" I.D. blast hose. These nozzles have a 1-1/4" entry in a flanged design, standard 1-1/4" threaded design or 50mm 2-4-1/2 UNC thread. The wider throat opening in this nozzle offers a 15% increase in production over a standard venturi by eliminating restriction and turbulence upstream of the venturi section of the nozzle.

T159 Series tungsten carbide wide throat long venturi nozzles



Brass outer jacket and threads, and tungsten carbide liner

T159-P Series tungsten carbide wide throat long venturi nozzles

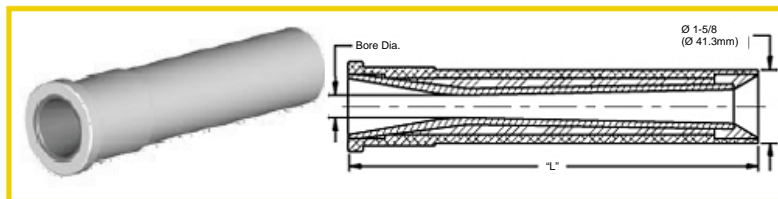


Tungsten carbide liner with polyurethane jacket and brass

Venturi Bore	T159 Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
1915950	T159-5	5/16" (7.9mm)	5-3/4" (146.1mm)
1915960	T159-6	3/8" (9.5mm)	6-3/4" (171.5mm)
1915970	T159-7	7/16" (11.1mm)	8" (203.2mm)
1915980	T159-8	1/2" (12.7mm)	9-1/8" (231.8mm)

Venturi Bore	T159-P Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
2015950	T159-5P	5/16" (7.9mm)	5-7/8" (149.2mm)
2015960	T159-6P	3/8" (9.5mm)	6-7/8" (174.6mm)
2015970	T159-7P	7/16" (11.1mm)	8-1/8" (206.4mm)
2015980	T159-8P	1/2" (12.7mm)	9-1/8" (231.8mm)
2015910	T159-10P	5/8" (15.9mm)	9-1/4" (235mm)
2015912	T159-12P	3/4" (19.1mm)	9-1/4" (235mm)

T159-F Series tungsten carbide wide throat long venturi nozzles



Tungsten carbide liner with flanged aluminum jacket

Venturi Bore	T159-F Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
1915961	T159-6F	3/8" (9.5mm)	6-3/4" (171.5mm)
1915971	T159-7F	7/16" (11.1mm)	8" (203.2mm)
1915981	T159-8F	1/2" (12.7mm)	9-1/16" (230.2mm)
1915910	T159-10F	5/8" (15.9mm)	9-1/4" (235mm)
1915912	T159-12F	3/4" (19.1mm)	9-1/4" (235mm)

BLAST NOZZLES

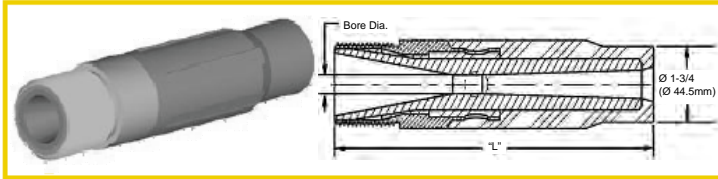
BLAST NOZZLES

Venturi Nozzles

BP200 SiAlON wide throat long venturi nozzles

Kennametal's exclusive BP200 SiAlON high performance wide entry long venturi nozzles are designed to replace both silicon carbide and silicon nitride. These nozzles resist breakage better than silicon carbide. Though they're as durable as tungsten carbide, they're lighter in weight to reduce operator fatigue. Designed to be used with 1" (25mm) or 1-1/4" (32mm) I.D. hose.

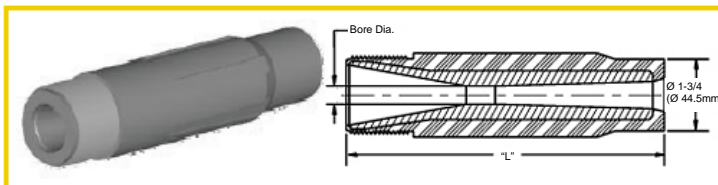
SN159-P Series BP200 SiAlON wide entry long venturi nozzles



Lightweight BP200 SiAlON liner with polyurethane jacket and brass threads.

Wide Entry Venturi Bore	SN159-P Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
2615950	SN59-5P	5/16" (7.9mm)	5.70" (144.8mm)
2615960	SN59-6P	3/8" (9.5mm)	6.70" (170.2mm)
2615970	SN59-7P	7/16" (11.1mm)	7.95" (202.0mm)
2615980	SN59-8P	1/2" (12.7mm)	9.00" (228.6mm)
2615910	SN59-10P	5/8" (15.9mm)	9.07" (230.4mm)
2615912	SN59-12P	3/4" (19.1mm)	9.07" (230.4mm)

SN159-AP Series BP200 SiAlON wide entry long venturi nozzles



Lightweight BP200 SiAlON liner with all polyurethane jacket and threads.

Wide Entry Venturi Bore	SN159-AP Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
2615953	SN159-5AP	5/16" (7.9mm)	5.83" (148.1mm)
2615963	SN159-6AP	3/8" (9.5mm)	6.83" (173.5mm)
2615973	SN159-7AP	7/16" (11.1mm)	8.07" (205.0mm)
2615983	SN159-8AP	1/2" (12.7mm)	9.14" (232.2mm)

BLAST NOZZLES

BLAST NOZZLES

BLAST NOZZLES

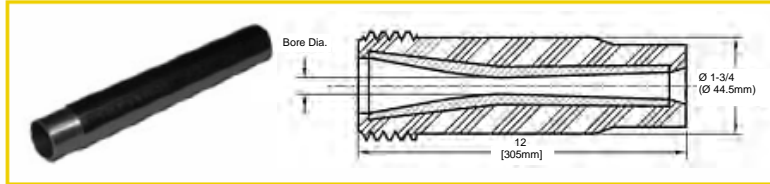
Special Venturi Nozzles

XL Performance Nozzles

The XL Performance nozzles increase abrasive particle velocity, resulting in improved production rates and efficiencies. The XL Performance nozzles will utilize the same air (CFM) requirements as our standard long venturi products for the same given bore size, resulting in lower compressed air operating costs per square foot/meter. These products are produced in our popular lightweight BP200 SiAlON material, helping minimize nozzle weight and overall operator fatigue.



SN159-XL 12 Series BP200 SiAlON nozzles



Lightweight BP200 SiAlON liner with aluminum jacket and threads

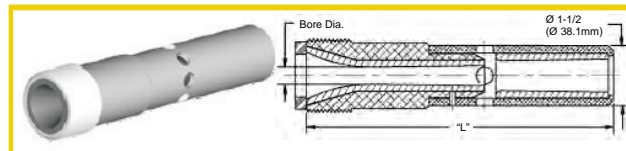
Venturi Bore	SN159-XL Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
2615940XL12	SN159-4XL 12	1/4" (6.4mm)	12" (305mm)
2615960XL12	SN159-6XL 12	3/8" (9.5mm)	12" (305mm)
2615980XL12	SN159-8XL 12	1/2" (12.7mm)	12" (305mm)

Double Venturi Nozzle

The double venturi offer a 35% larger blast pattern than a standard long venturi with only a very slight loss in abrasive velocity. Designed to be used on jobs where medium cutting action is required with a more even dispersion of abrasive throughout the larger blast pattern. Excellent for plastic or agricultural abrasives.

Tungsten carbide double venturi nozzles

T125 Series tungsten carbide double venturi nozzles



Tungsten carbide liners with metal jacket and aluminum threads.

Double Venturi Bore	T125 Series		
Thread Style	1-1/4-11-1/2 N.P.S.M		
Part Number	Model Number	Bore Diameter	Length
1912530	T125-3	3/16" (4.8mm)	5" (127mm)
1912540	T125-4	1/4" (6.4mm)	5-7/8" (149.2mm)
1912550	T125-5	5/16" (7.9mm)	6-5/16" (160.3mm)
1912560	T125-6	3/8" (9.5mm)	6-7/8" (174.6mm)
1912570	T125-7	7/16" (11.1mm)	8-1/2" (215.9mm)
1912580	T125-8	1/2" (12.7mm)	9-1/4" (235mm)

BLAST NOZZLES



SHORT STRAIGHT BORE NOZZLES....

For spot blasting and shot peening

The tungsten carbide (T137 Series and T122 Series) and boride carbide (E series) short straight bore nozzles are good for siphon-pickup wet blasting in pressure cabinets and shot peening. Several jackets are available for these durable nozzles. Designed for use with a blast hose no larger than 3/4" I.D.



SHORT VENTURI NOZZLES....

For wide patterns at close range

For the widest possible blast pattern at close range, use the tungsten carbide T121 Series or the boron carbide F Series short venturi nozzle. Designed for blasting within 12 inches of the surface.



WATER INDUCTION NOZZLES....

For wet blasting...simple and effective

System is engineered for existing pressure blast equipment— no high pressure water pump necessary. Use low pressure tap water source. Win Series nozzles deliver high productivity and superior dust and abrasive containment, using less water than conventional systems. Water abrasives and air are mixed in side the nozzle for high velocity blast.



ANGLE NOZZLES....

For tight spots

Tungsten carbide gives these 45 degree and 90 degree angle nozzles good wear resistance. For cleaning bridge lattice, behind flanges, inside pipe, these nozzles are available with single, double, or triple nozzle outlets.



BANANA NOZZLE....

40 degree Boron carbide nozzles with steel jacket & threads. Excellent for getting around lattices and hard to reach areas. Standard 3/4" threads.



BAZOOKA....

For high pressure systems

The Bazooka (T159-VP Series) uses high input pressure for a high velocity blast pattern that is 60% larger than conventional nozzles. These nozzles give very high productivity. Nozzle pressure of 125-150 PSI yields white metal or near white metal cleaning; 90-100 PSI delivers commercial or brush blast.

This listing is just a small example of products available from Canfield & Joseph, Please call for any specialty needs.

Kansas City, KS
800-933-3643

Davenport, IA
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Houston, TX
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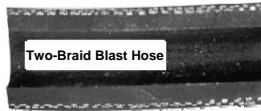
CANFIELD &
JOSEPH, INC.

HOSES

ABRASIVE BLAST HOSE

Part#	Description
BH1-1/2-4PLY	1-1/2 in ID x 2-3/8 in OD
BH1-1/4-2PLY	1-1/4 in ID x 1-7/8 in OD
BH1-1/4-4PLY	1-1/4 in ID x 2-5/32 in OD
BH1-2PLY	1 in
BH1-4PLY	1 in ID x 1-7/8 in OD
BH2-4PLY	2 in ID x 2-7/8 in OD
BH3/4-2PLY	3/4 in ID x 1-5/16 in OD
BH3/4-4PLY	3/4 in ID x 1-1/2 in OD

All Styles Available in 25', 50' & 100' Sections



I.D. (in)	O.D. (in)	PLY	MAX PSI	HOLDER	COUPLER
3/4	1-1/2	4	150	HE-1	Q-1
1	1-7/8	4	150	HE-2	Q-2
*1-1/4	1-7/8	2	150	HE-2	Q-2
1-1/4	2-5/32	4	150	HE-3	Q-3
1-1/2	2-3/8	4	150	HE-4	Q-4

Needle Gauge
#CL01232



HOSE SELECTION GUIDE (FOR BLASTING AT 100 PSI)

NOZZLE	No 4	No 5	No 6	No 7	No 8
Size	1/4"	5/16"	3/8"	7/16"	1/2"
CFM at 100 PSI	90	150	200	270	350
Air Hose	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"
Blast Hose	1"	1-1/4"	1-1/4"	1-1/2"	1-1/2"
Material approx lbs per/ hr	560	900	1,260	1,750	2,250

HOSES

SAFETY HOSE CABLES

PART #	CABLE SIZE	HOSE ID	CABLE LENGTH	MAX PSI
WSR-1	1/8"	1/2—1-1/4"	20-1/4"	200
WSR-2	3/16"	1/2—1-1/4"	28"	200
WSR-3	1/4"	1-1/2 TO 3"	38"	200



BREATHING AIR HOSE

PART #	DESCRIPTION
04415	Clemco 3/8" Breathing Air Hose (50' Section)
04398	Clemco 3/8" Breathing Air Hose (100' Section)
NV2028	Nova 3/8" Breathing Air Hose (25' Section)
NV2029	Nova 3/8" Breathing Air Hose (50' Section)
V2050ST	Bullard 3/8" 1/2" Air Hose Avail in 50 & 100 ft Lengths

2028/2029

04415/04398

V2050ST



TWIN LINE HOSE

PART #	DESCRIPTION
AX4100-501	Schmidt Twin Line (55' Section) Coupled
AX4100-701	Schmidt Twin Line (110' Section) Coupled
CL01951	Clemco Twin Line (50' Section) Coupled
CL01952	Clemco Twin Line (5' Section) Coupled
EM521892	Empire Twin Line (55' Section) Coupled



HOSES

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St. Louis, MO
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Ft. Worth, TX
800-480-8957



HOSES



110CL/GR

SUCTION/DISCHARGE HOSE

PART #	DESCRIPTION
110CL-2	2" Heavy Duty Water suction & Discharge Hose (Clear)
110CL-3	3" Heavy Duty Water suction & Discharge Hose (Clear)
110CL-4	4" Heavy Duty Water suction & Discharge Hose (Clear)
110GR-2	2" Heavy Duty Water suction & Discharge Hose (Green)
110GR-4	3" Heavy Duty Water suction & Discharge Hose (Green)
110GR-4	4" Heavy Duty Water suction & Discharge Hose (Green)

180AR

620WD



MATERIAL HANDLING HOSE

PART #	DESCRIPTION
180AR-2	2" Heavy Duty Material Handling Hose
180AR-4	4" Heavy Duty Material Handling Hose
180AR-6	6" Heavy Duty Material Handling Hose
620WD-2	2" General Ducting & Blower Hose w/ metal wire helix
620WD-4	4" General Ducting & Blower Hose w/ metal wire helix
620WD-6	6" General Ducting & Blower Hose w/ metal wire helix

Additional Sizes Available Upon Request


BLAST HOSE COUPLINGS AND SAFETY CABLES

Standard Style



Full Port Style




STANDARD	PART#	HOSE ID	HOSE OD	GASKET ID	ALUM	BRASS	NYLON	IRON
	Q-05	1/2"	1-3/16"	1-1/4"	XX	XX	N/A	N/A
	Q-1	3/4"	1-1/2"	1-1/4"	XX	XX	XX	XX
	Q-2	1 or 1-1/4"	1-7/8"	1-1/4"	XX	XX	XX	XX
	Q-3	1-1/4"	2-5/32"	1-1/4"	XX	XX	XX	XX
	Q-4	1-1/2"	2-3/8"	1-1/4"	XX	XX	XX	XX

*Gasket for Standard couplings: SBG-1

*Gasket for Full Port couplings: SBG-2X



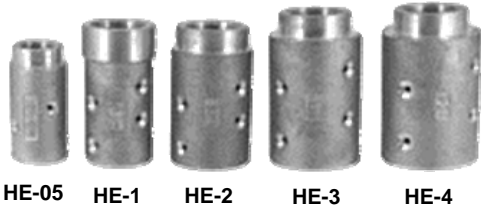
FULL PORT	PART#	HOSE ID	HOSE OD	GASKET ID	ALUM	BRASS	NYLON	IRON
	Q-2X	1 or 1-1/4"	1-7/8"	1-3/4"	XX	XX	N/A	N/A
	Q-3X	1-1/4"	2-5/32"	1-3/4"	XX	XX	N/A	N/A
	Q-4X	1-1/2"	2-3/8"	1-3/4"	XX	XX	N/A	N/A
	Q-6X	2"	2-7/8"	1-3/4"	XX	XX	N/A	N/A

Full Port couplings are extra large and will not interchange with standard sizes

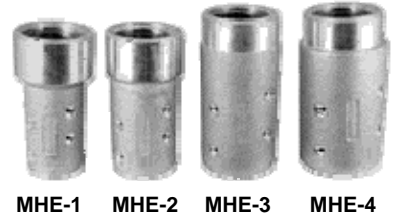
COUPLING & NOZZLE HOLDERS

NOZZLE HOLDERS, QUICK HOLDERS & ADAPTORS


Standard




Full Port



COUPLING & NOZZLE HOLDERS

<u>STANDARD</u>	PART#	HOSE ID	HOSE OD	THREAD SIZE	ALUM	BRASS	NYLON
	HE-05	1/2"	1-3/16"	3/4" NPS	XX	XX	XX
	HE-1	3/4"	1-1/2"	1-1/4" NPS	XX	XX	N/A
	HE-2	1 or 1-1/4"	1-7/8"	1-1/4" NPS	XX	XX	XX
	HE-3	1-1/4"	2-5/32"	1-1/4" NPS	XX	XX	N/A
	HE-4	1-1/2"	2-3/8"	1-1/4" NPS	XX	XX	XX

<u>FULL PORT</u>	PART#	HOSE ID	HOSE OD	GASKET ID	ALUM	BRASS	NYLON
	MEHE-1	3/4"	1-1/2"	50mm	XX	XX	XX
	MEHE-2	1 or 1-1/4"	1-7/8"	50mm	XX	XX	XX
	MEHE-3	1-1/4"	2-5/32"	50mm	XX	XX	XX
	MEHE-4	1-1/2"	2-3/8"	50mm	XX	XX	XX

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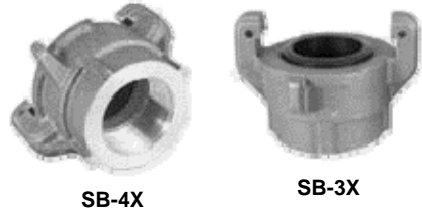



TANK COUPLINGS, GASKETS AND SAFETY CLIPS


Standard Style



Full Port Style




<u>STANDARD</u>	PART#	ID SIZE	THREAD SIZE	GASKET ID	ALUM	BRASS	NYLON	IRON
	SB-1	1-1/4"	1-1/4" NPT	1-1/4"	XX	XX	XX	XX
	SB-1S	1-1/4"	1-1/4" NPS	1-1/4"	XX	XX	N/A	XX
	SB-2	1-1/2"	1-1/2" NPT	1-1/4"	XX	XX	XX	XX
	SB-2S	1-1/2"	1-1/2" NPS	1-1/4"	XX	XX	N/A	XX

<u>FULL PORT</u>	PART#	ID SIZE	THREAD SIZE	GASKET ID	ALUM	BRASS	NYLON	IRON
	SB-3X	1-1/2"	1-1/2" NPT*	1-3/4"	XX	XX	N/A	N/A
	SB-4X	2"	2" NPT*	1-3/4"	XX	XX	N/A	N/A

* Modified NPT threads allow coupling to screw further onto pipe.

<u>GASKETS</u>	PART#	DESCRIP
	SBG-1	STANDARD
	SBG-2X	FULL PORT
	SBG-3	NYLON COUPLING
	SBG-1U	URETHANE

<u>SAFETY CLIPS</u>	PART#	DESCRIP
	CLIP	SAFETY CLIP
	SBS	SCREWS

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800-480-8957



COUPLING & NOZZLE HOLDERS

AIR HOSE COUPLINGS/UNIVERSAL CROWFOOT

2-LUG








UH-2

4 LUG



UH-4


<u>2-LUG</u>	SIZE	PART #	IRON	STAINLESS STEEL
	3/8" Hose End 1/2" Hose End 3/4" Hose End 1" Hose End	21DPHE-038 21DPHE-050 21DPHE-075 21DPHE-100	XX	XX
	1/4" Female NPT 3/8" Female NPT 1/2" Female NPT 3/4" Female NPT 1" Female NPT	21DPFE-025 21DPFE-038 21DPFE-050 21DPFE-075 21DPFE-100	XX	XX
	1/4" Female NPT 3/8" Female NPT 1/2" Female NPT 3/4" Female NPT 1" Female NPT	21DPME-025 21DPME-038 21DPME-050 21DPME-075 21DPME-100	XX	XX

<u>4-LUG</u>	SIZE	PART #	IRON	STAINLESS STEEL
	1-1/4" Hose End 1-1/2" Hose End 2" Hose End	21DPHE-125 21DPHE-150 21DPHE-200	XX	XX
	1-1/4" Female NPT 1-1/2" Female NPT 2" Female NPT	21DPFE-125 21DPFE-150 21DPFE-200	XX	XX

21DPUW-300	3-Way Connector Plated Ductile Iron
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21DPBE-301	Dead End Stainless Steel 12.21 Plated Iron 3.02
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<u>GASKETS</u>	PART#
	UG-2 2-LUG
	UG-4 4-LUG

<u>SAFETY CLIP</u>	PART#
	SC CLIP ONLY
	SL LANYARD ONLY

COUPLING & NOZZLE HOLDERS

ABRASIVE MEDIA

▲ =Angular

Coal Slag



Coal Slag will blast off the toughest coatings so you can prepare surfaces right the first time. Achieve the consistent, high quality performance that you demand in a coal slag abrasive. Coal slag provides the foundation for coatings that last. Coal slag is a tough, clean and economical abrasive with less than 1% free silica. It's unique, angular shape and hardness quickly cut away existing coatings. Use coal slag on buildings, tanks, castings, ships, bridges, railroad equipment, structural steel, exposed aggregate and more.

FEATURES:

Economical—Less than 1% free silica—Does not react with coatings -Works in your existing equipment (*no conversion needed*) - Reduces coating failure—Does not attract moisture - Allows fast and easy clean up—Angular shape to cut through coatings -dust suppressant available from most location.

SIZES:

- 12/30 (Extra Course)
- 12/40 (Course)
- 20/40 (Medium)
- 30/60 (Fine)
- 40/80 (Extra Fine)

PACKAGING:

64-50# Bags/Pallet
40-80# Bags/Pallet
30-100# Bags/Pallet
3,000/4,000# Super Sacks
Per Ton - Bulk

Also Available with
BLASTOX®

Garnet

▲ =Angular



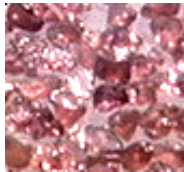
Garnet can be used in a wide variety of abrasive blasting applications, including blast rooms and shipyards. Because it is a hard and heavy abrasive, garnet can increase productivity while reducing the amount of abrasive used.

FEATURES:

Cuts fast and reduces abrasive consumption—Less abrasive means lower disposal cost—Environmentally friendly - No heavy metals—Low dusting - Better visibility while blasting—Recyclable

SIZES:

- **Size 16 (Extra Coarse):** removes very thick coatings (50-60+ mils) and rust. Can obtain a 4.5+ mil profile on steel.
- **Size 36 (Coarse):** removes thick coatings (20-50 mils). Typical mil profile between 4+ on steel.
- **Size 30 x 40 (Medium Coarse):** removes heavy coatings and rust (20-40+ mils) while maintaining a consistent profile, typically ranging from 3.5+ on steel surfaces.
- **Size 30 x 60 (Medium):** very common grade used for new steel and various types of maintenance work on coatings (ranging up to 20 mils) resulting in a typical profile between 3+ on steel surfaces.
- **Size 60 (Medium/Fine):** very common grade used for new steel and various types of maintenance work on coatings (ranging up to 20 mils) resulting in a typical profile of 2.5+ on steel surfaces.
- **Size 80 (Fine):** typically used on more sensitive surfaces, typically produces a 2.0+ mil profile on steel surfaces.
- **Also available in finer sizes: 120,150, and 200.**



PACKAGING:

80-55# Bags/Pallet
2,200/4,400 lbs Super Sacks
Per Ton - Bulk

ABRASIVE MEDIA

Kansas City, KS
800-933-3643

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Houston, TX
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St. Louis, MO
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Ft. Worth, TX
800-480-8957



ABRASIVE MEDIA



Starblast

▲ =Angular ● = Spherical

DuPont® Starblast® is a sub-angular, general purpose abrasive used in bridge maintenance and steel fabrication to remove rust, mill scale and weathered coatings. Starblast is comprised of the naturally occurring mineral, Staurolite, which has a hardness of 7 Mohs and a bulk density of 130lbs/cu.ft. These attributes provide a low dust blasting environment and more efficient cleaning.

FEATURES:

Starblast, Starblast XL, and Starblast Ultra offer the same product advantages, such as:

Greater blasting visibility due to considerably less dust generation — Lower labor costs through faster, more efficient cleaning — Less material costs due to reusability — More uniform blasting pattern — Guaranteed to contain <5% free silica, typically <2%, Starblast XL guaranteed <1% — Rounded to sub-angular grains result in less abrasive embedment — Electrically nonconductive — California Air Resources Board Certified — Starblast XL is QPL approved for MIL-A22262A-SH

PACKAGING:

80-50# Bags/Pallet
4,000# Super Sacks

*Starblast is a DuPont registered trademark for its blasting abrasives.
Only DuPont makes Starblast.*

▲ =Angular

Crushed Glass

Crushed glass is manufactured from pre and post consumer recycled container glass. This is an environmentally friendly abrasive since it is non-toxic and inert, and contains no heavy metals. Using crushed glass can help to reduce particle embedment, increase productivity and reduce abrasives usage.

FEATURES:

Virtually no free silica—Angular to sub-angular—Recyclable—Low dusting—Provides aggressive surface profiling and coatings removal.

SIZES:

- **Extra Coarse (#2):** For heavy duty blasting. Removal of mill scale, heavy rust, thick coatings. Used for blasting concrete, structural, tanks, pipelines, etc.
- **Coarse (#3 R-18):** Uses are similar to the coarse with a slightly reduced mil profile. Good on heavy mill scale and rust.
- **Medium (#4 R-21):** For smoother finishes. Excellent for aluminum, stainless steel or fiberglass. Good on light mill scale or rust.
- **Fine (#5 G-28):** For light duty blasting. Used for minimal etching on surfaces like wood, aluminum or fiberglass.

PACKAGING:

48-50# Bags/Pallet
3,000# Super Sacks



ABRASIVE MEDIA

▲ =Angular

Aluminum Oxide



Virgin brown aluminum oxide blasting abrasive is high in quality, tough and long lasting. This may be the finest abrasive blast medium available for use in cabinets, blastrooms and any other application where a recyclable media can be used.

Virgin Aluminum Oxide is available in the following sizes: 16, 20, 24, 30, 36, 46, 54, 60, 80, 90, 100, 120, 150, 180, 220, 240, 320

PACKAGING:

40-50# Bags/Pallet
400# Drum
2,000#/3,000# Super Sacks

▲ =Angular

Plastic Media

Plastic media is widely used in the aerospace and automotive industries to remove coatings without damaging the substrate. Plastic media blasting is a cost-effective alternative to chemical stripping since it is non-hazardous and recyclable.

General applications include removal of powder coatings; stripping aircraft and aerospace components; removal of primers and topcoats without harming the substrate; removal of coatings from vehicles and vehicle parts.

FEATURES: Non-hazardous—Recyclable

SIZES:

- 12/16 (Extra Coarse/Coarse)
- 12/20 (Coarse)
- 20/30 (Medium)
- 20/40 (Medium/Fine)
- 40/60 (Fine)

TYPES:

- **Type II - Urea**-Most commonly used plastic media. Used on a variety of soft metals and steels. Used for removal of powder coatings, and the removal of paint and coatings from automobiles, trucks, trailers and marine vessels.
- **Type III -Melamine**-Hardest and most aggressive plastic media. Removes rust and pitted corrosion. Used for more aggressive paint and coatings removal in the aircraft and automotive industry.
- **Type V -Acrylic**-Most popular for use on thin aluminum parts. Less aggressive than Type II. Good for removing a top coat, cleaning soft and sensitive substrates. Widely used in aircraft industry for coating removal.

PACKAGING:

275# Drum
55# Box or Pail

ABRASIVE MEDIA

Kansas City, KS
800-933-3643

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Houston, TX
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St. Louis, MO
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Ft. Worth, TX
800-480-8957

CANFIELD &
JOSEPH, INC.

ABRASIVE MEDIA

▲ =Angular

Corn Cob



Corn Cob is a clean, organic abrasive that will clean and polish without damaging the surface. Depending on the application, corn cob can typically be recycled. Corn cob will also absorb oils and liquids while cleaning a surface. Some of the common applications for corn cob include cleaning wood floors, polishing and cleaning antiques, cleaning industrial equipment and restoring log homes.

FEATURES:

Absorbent — Recyclable — Organic and Natural — Virtually dust free — Non-sparking — Soft grit abrasive

SIZE:

- **10/14 (Coarse):** heavy duty work
- **14/20 (Medium):** blasting metals, aluminum forms, industrial equipment
- **20/40 (Fine):** wood floors, antiques, brick buildings, fire restoration
- **30/80 (Very Fine):** log homes, walls of food plants, antique cars

PACKAGING:

40-50# Bags/Pallet

▲ =Angular

Walnut Shells



Walnut shell has a wide variety of uses. It is commonly used to polish and clean soft metals, fiberglass, wood and stone. Use walnut shell to achieve an excellent finish without scratching or pitting the surface. Because of its resistance to breakdown, walnut shell can be recycled to help reduce costs.

FEATURES:

Hard, organic abrasive — Environmentally friendly — Recyclable — Excellent durability — Cleans without scratching or pitting — Low dusting

APPLICATIONS:

- Stripping auto and truck panels
- Cleaning soft metals, fiberglass, plastics, wood and stone
- Deburring moldings, castings, electrical parts
- Paint removal and graffiti removal
- General cleaning in building restoration

PACKAGING:

40-50# Bags/Pallet

ABRASIVE MEDIA

Glass Beads

● =Spherical



APPLICATIONS:

- **Finishing**-Glass Bead blasting can be used on a wide range of materials including metal, glass, plastic and rubber. The smaller the glass spheres, the smoother the surface; larger spheres produce a more textured finish.
- **Cleaning**-Glass Beads remove/clean foreign substances from the surface without a dimensional change to the surface. A wide range of bead sizes is available.
- **Deburring**-Glass Bead blasting removes burrs, feathered edges, from parts in a precision operation. Corners and edges must be deburred with precision to assemble and operate properly. Glass bead blasting guarantees that no base metal from the surface is removed.
- **Peening**-Peening with Glass Beads is a low cost form of creating a uniform surface layer of compressed stress in alloy substances. Peening acts to combat stress cracks and corrosion which result in increasing the life of metal parts.

SIZES: (including, but not limited to)

- #4 30-40 (Extra Coarse)
- #6 50-80 (Coarse)
- #8 70-140 (Medium)
- #10 100-170 (Fine)

PACKAGING:

40-50# Bags/Pallet

Mil-Spec also available

Steel Grit

▲ =Angular



Steel grit blasting is ideal for aggressive cleaning applications. Steel grit will quickly strip many types of surface contaminants from steel and other foundry metals. Steel grit is softer than aluminum oxide and does not fracture as easily, making it ideal for aircraft and aero-space applications. The angular nature of steel grit produces an etched surface on metal for superior adhesion of paint, epoxy, enamel, rubber and other coatings.

Different chemistries will lead to different operating results, depending on the size and hardness of the grit. Steel grit that is formulated as a softer (40-50 HRC) metal will round off rapidly, making it ideal for quick stripping of oxides and cleaning of molds. Harder steel grit (55-65 HRC) will maintain the angular nature of the grit to provide continuous cutting action.

Finishes Produced by Various Sizes of Steel Grit



Grit Size	Approx Size	Bags/Pallet	Drum	Finish Produced
G-80	0.007"	40-50#	1500#	Medium etch
G-50	0.011"	40-50#	1600#	
G-40	0.017"	40-50#	1700#	
G-25	0.023"	40-50#	1700#	Sharp etch
G-18	0.039"	40-50#	1700#	Deep etch rough
G-16	0.046"	40-50#	1800#	
G-14	0.055"	40-50#	1800#	
G-12	0.066"	40-50#	1800#	Very rough

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ABRASIVE MEDIA



Steel Shot

● =Spherical

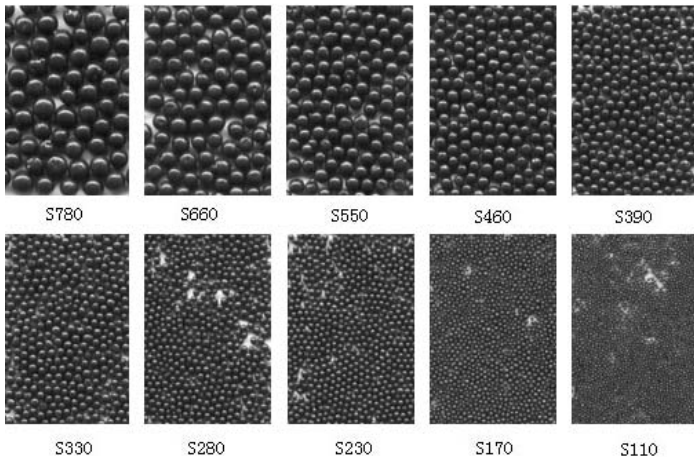


Steel shot blasting is the most widely used process for cleaning, stripping and improving a metal surface. The grade or size of steel shot will determine the ultimate finish achieved on the surface of the metal. The round ball shape of the steel shot produces a clean, smooth and polished surface through a peening action created by the acceleration of the shot. In a peening application, steel shot is also used to impart compressive strength to torque or load bearing metal parts such as crankshafts, engine turbine blades and heavy-duty springs.

Smaller steel shot will result in a smoother and more polished surface. Larger shot will clean more aggressively but produce a rougher surface. Both air powered and wheel blast systems can be used to accelerate the steel shot onto the surface of the part. Due to the hardness and density of steel shot, it can be recycled as much as 3000 times before replacement. Since steel shot does not use an abrasive process, a minimal amount of dust is created in the blasting process.

Steel Shot Grades, Sizes, Finishes and Applications

Shot Grade	Approximate Size	Bags/Pallet	Drum	Finish	Applications
S-70	0.007"	40-50#	2000#	Fine, smooth shot finish Excellent coverage.	Blasting of relatively small ferrous and non-ferrous castings. Removal of light scale from foreign and heat treated parts. Blasting of machined parts. Removal of mill scale, rust and other deposits.
S-110	0.011"	40-50#	2000#		
S-170	0.017"	40-50#	2000#		
S-230	0.023"	40-50#	2000#	Medium, light shot finish. Good coverage.	Blasting of grey iron, malleable iron, light steel castings, medium forgings, heat-treated parts and heavy mill scale - rust and other deposits.
S-280	0.028"	40-50#	2000#		
S-330	0.033"	40-50#	2000#		
S-390	0.039"	40-50#	2000#	Average to heavy shot finish. Average coverage.	Blasting of steel, heavy malleable iron and grey iron castings. Removal of scale from large billets, slabs - rust and other deposits.



Steel Shot & Grit Hardness Cross Reference Guide

	<u>Shot</u>	<u>Grit</u>	<u>Rockwell C</u>
Ervin	S	SG	40-51
	M	MG	47-56
	L	LG	54-61
	H	HG	60+





ABRASIVE MEDIA

Abrasive Characteristics Comparison

Material	Mesh Size	Shape	Density lbs/ft3	Mohs	Friability	Init. Cost	No. of Cycles	Per use Cost	Source	Typical Applications
Coal Slag	12-65	▲	75-100	6-7	high	low	2-3	low	b-p	Outdoor blast cleaning Paint & Rust Removal
Star-blast	80-100	▲ ●	143-148	6.50-7.0	high	low	5-6	low	nat	Outdoor blast cleaning rust, mill scale & coating removal
Steel Grit	10-325	▲	230	8.0	low	high	200+	med.	mfg.	Removing heavy rust scale Very Aggressive Profile
Steel Shot	8-200	●	280	8.0	low	high	200+	low	mfg.	Cleaning, peening, air & wheel blast on hard surfaces
Aluminum Oxide	12-325	▲	125	8.0-9.0+	med.	high	6 - 8	med.	mfg.	Fast cleaning, deburring, etching & paint removal
Glass Bead	10-400	●	85-90	5.5	med.	med.	8 - 10	low	mfg.	Air blast cleaning, peening, polishing w/ bright finish
Plastic	12-80	▲	45-60	3.0-4.0	low/med.	high	8 - 10	med.	mfg.	Paint stripping, deburring, cleaning, de- flashing, non etching
Crushed Glass	8-400	▲	75-100	6	high	high	1-3	low	mfg	Paint stripping, cleaning, coating removal
Corn Cob	8-40	▲	35-45	2.0-4.5	med.	low	4 - 5	low	b-p	Removing paint from delicate surfaces
Garnet	31-120	▲ ●	130	7.5-8	Low/Med	Med	5-8	low	nat	Blasting, Waterjet, Cutting
















▲ =Angular ● = Spherical

From bag quantities to truckloads, Canfield & Joseph can supply all your blast abrasive media. We deal with reputable suppliers such as ATI, Harsco and Ervin Industries. But if you're not sure about what's right for your application, just contact us. We're experts!

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Degrees of Cleanliness of Blast-Cleaned Surfaces

		
KEY: Steel where mill scale has started to flake and light rusting occurs.	KEY: Steel where mill scale has flaked off and complete rusting has taken place.	KEY: Steel where pitting and complete rusting have occurred.
 Brush-Off	 Brush-Off	 Brush-Off
 Commercial	 Commercial	 Commercial
 Near-White Metal	 Near-White Metal	 Near-White Metal
 White Metal	 White Metal	 White Metal

Brush-Off

Tightly adherent mill scale, rust and coatings may remain on the surface. Mill scale, rust and coatings are considered adherent if they cannot be removed with a dull putty knife.

NACE Code: #4
SSPC Code: SP 7

Commercial

Evenly dispersed very light shadows, streaks and discolorations caused by stains of rust, mill scale or coatings may remain on no more than 33% of the surface. Slight residues of rust and coatings may be left, if the original surface is pitted.

NACE Code: #3
SSPC Code: SP 6

Near-White Metal

Evenly dispersed very light shadows, streaks and discolorations caused by stains of rust, mill scale or coatings may remain on no more than 5% of the surface.

NACE Code: #2
SSPC Code: SP 10

White Metal

Free of all visible oil, grease, dirt, dust, mill scale, rust and coatings.

NACE Code: #1
SSPC Code: SP 5

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- Cloth PSA Discs and Accessories
- Paper Discs and Accessories
- Film and Waterproof Paper Discs
- Norax Film Discs
- File and Portable Belts
- Narrow Belts
- Wide Belts
- Cloth and Paper Sheets
- Abrasive Sponges
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To verify the superiority of their products, Norton invites in-plant testing against any other brand of abrasive products, or lower performance tiers of their products. This makes it as easy as possible for you to see the time, labor, and money saving advantages of Norton products. You have absolutely nothing to lose and everything to gain by conducting an in-shop test.

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Norton offers the industry's widest selection of products at three separate value levels to meet your exact grinding needs. Norton abrasives are classified in BEST, BETTER, and GOOD performance/price tiers to help you choose the right product for your specific application every time.

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TESTING EQUIPMENT

Elcometer 207 Precision Ultrasonic Thickness Gauges



The Elcometer 207 series of precision ultrasonic thickness gauges are designed to provide accurate measurements on thin materials.

Using the latest transducer designs - the single element delay tip transducer - the Elcometer 207 gauges will measure thin materials in "Echo-to-Echo Mode" and then automatically switch to "Interface Echo Mode" when measuring thicker materials and plastics. Furthermore, the Elcometer 207's Echo-to-Echo Mode offers the user the ability to measure the materials' thickness WITHOUT removing the paint or coating.

All Elcometer 207's and 207DL gauges now have a new operating mode, the PLAS Mode. This mode has been specifically designed to provide accurate readings when measuring thin plastics.

Two calibration options - Speed of Sound, Calibration to a known Thickness.

Data output & Backlight display available on both versions.

Elcometer 236 DC Holiday Detectors



This instrument performs high voltage testing to detect pits, holes, flaws etc in coatings.

The Elcometer 236's convenient carrying case allows the probe handle and accessories to be attached to the front making the Elcometer 236 ideal for field, site or laboratory inspection.

An accessory pouch, which accommodates the additional rechargeable battery (optional) can also be attached to the soft carrying case - thereby extending inspection time without the need for recharging the unit.

Testing Equipment

elcometer®

Elcometer 456 Coating Thickness Gauges with *Bluetooth*®†



This flagship product is available in any combination of Basic, Standard and Top functionality, and as either Integral (inbuilt), Separate or Plug in integral PINIP™ probes to meet your specifications.

With its enhanced menu screens and the introduction of Bluetooth® wireless technology, the Elcometer 456 remains the most advanced, hand held coating thickness gauge available.

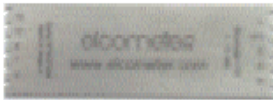
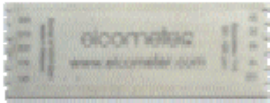
The Integral Gauge features an inbuilt Bigfoot™ probe for stable placement, allowing for consistent and repeatable results.

Separate probe versions have an extensive range of plug in probes for measurements of a diverse range of coating thicknesses, metal substrates and shapes.

The PINIP™ probe can be screwed into the base of any separate probe version converting it into an integral gauge for single handed operations. PINIP™ versions are also available for high temperature substrates.

The Elcometer 456 Standard and Top models now come with Bluetooth® wireless technology. Instant transmission to your PC or hand held data device is now possible - no more cables required. RS232 data output is available on all models.

Elcometer 115 Wet Film Combs



These reusable precision stainless steel combs are made to be long lasting.

Available as either metric or imperial combs with thickness ranges up to a maximum of 1270µm or 50mils, the Elcometer 115 is manufactured to an accuracy of 5% or 2.5µm (0.01mil), whichever is the greater.

Each comb has 10 measurement steps (teeth).

Using a Wet Film Comb

Place a comb perpendicular to and touching the substrate. Hold the comb in position and wait a few seconds until the teeth are wet. Remove the comb from the film.

The wet film thickness lies between the biggest value 'coated' or 'wet' tooth and the smallest value 'uncoated' or 'dry' tooth.

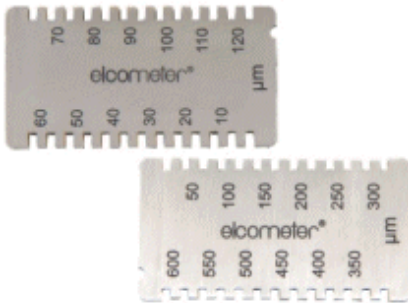
TESTING EQUIPMENT

Testing Equipment

elcometer®

Elcometer 3238 Long Edge Wet Film Combs

These stainless steel combs are wire eroded to provide an accuracy of $\pm 2.5\mu\text{m}$ (0.01mil) and are supplied with either Metric or Imperial measurements.



Each comb has 24 measurement stages (teeth) providing a more accurate wet film thickness value.

Using a Wet Film Comb

Place a comb perpendicular to and touching the substrate. Hold the comb in position and wait a few seconds until the teeth are wet. Remove the comb from the film.

The wet film thickness lies between the biggest value 'coated' or 'wet' tooth and the smallest value 'uncoated' or 'dry' tooth.

NEW - Elcometer 319 Dewpoint Meter with Bluetooth®*

The Elcometer 319 Dewpoint Meter has been designed to measure and record all the relevant climatic parameters required to determine whether conditions are suitable for painting.



Integrated magnets allow remote data monitoring on steel substrates

USB and Bluetooth® data output to a PC or PDA

A hand-held Dewpoint meter with manual and interval data logging in one gauge
Store 25,000 records in up to 999 batches

Large, customer definable illuminated display operates over the full temperature range

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Elcometer 224 Digital Surface Profile Gauge*



The Elcometer 224 provides the very latest in surface profile measuring technology. Accurate, fast and very user friendly, this gauge is available with or without memory. The Elcometer 224 Top model is available with Bluetooth® wireless technology and can store up to 50,000 reading in 999 batches.

Fast reading rate at 40+ readings per minute

Bluetooth® wireless technology & RS232 data output for cable free data transfer.

Cost per test is significantly lower than other test methods.

Store up to 50,000 readings in 999 batches.



Elcometer 122 Testex® Replica Tape

Elcometer 122 Testex Tape consists of foam with a non-compressible backing. The foam side is rubbed into the surface providing a permanent mold of the peak-to-valley profile, which can then be measured using the Elcometer 124 Thickness Gauge.

Elcometer 122 Testex Tape is available in three profile ranges. It is important that the tape grade chosen is reflective of the profile being measured, as using tape grade below the actual value may provide a “false” reading.

There are 50 Tests in each roll.

elcometer®

Elcometer 124 Thickness Gauge



The Elcometer 124 Thickness Gauge is used to measure the peak-to-valley height of a surface profile molded in the Elcometer 122 Testex Replica Tape.

- Available in both Metric and Imperial versions
- Quick and easy to use
- Anvil pressure as required in the Standards

Elcometer 125 Surface Comparators



These extremely durable comparators allow the estimation of surface roughness of either grit and shot blasted surfaces. Using the Elcometer 125 surface comparators as a reference the blasted profile can be compared to the four reference profile grades in each comparator. Profiles are recorded in microns.

- 4 Roughness Values per Comparator



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Elcometer 127 Keane-Tator Surface Comparators & Magnifier



The Elcometer 127 range of Surface Comparators are available in sand, shot or grit surface profiles. Each comparator is supplied with 5 profile grades ranging from 0.5-5.5mils. Designed for use with the Elcometer 127 illuminated magnifier, each comparator has a hole in the center allowing for clear visual comparisons to be made.

- 5 Roughness Values per Comparator

Elcometer 211 Coating Thickness Gauge



The Elcometer 211, commonly referred to as the “Banana Gauge”, has proven to be a successful coating thickness gauge where the use of electronic instruments is difficult, e.g. inflammable atmospheres in oil and gas production.

The “V” grooved base, rubber feet and clear scale, with its ranges for thicker coatings, make this one of the most popular mechanical gauges in the world.

- Factory calibrated-with user calibration adjustment
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- Ideal for cold surfaces and underwater use

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Description & additional information _____

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Inside Diameter: 8-3/4" 9-1/4" Other: _____

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