



CLEMTEX

*Corrosion Control
Equipment and Supplies*



Parts Catalog



Products Manufactured by:

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Compressed Air and Abrasive Consumption

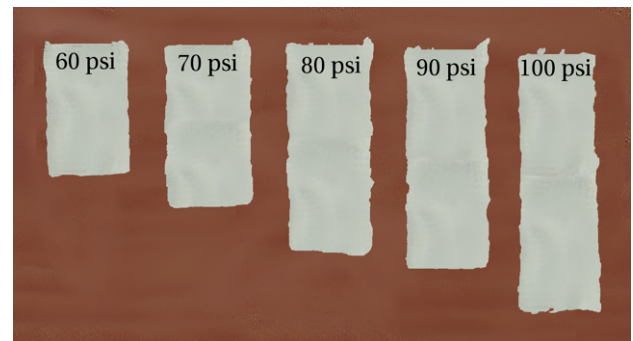
Nozzle Orifice	Pressure at the Nozzle (psi)						Air, Abrasive and HP Requirements
	50	60	70	80	90	100	
No. 2 (1/8")	11	13	15	17	18.5	20	Air (cfm)
	0.67	0.77	0.88	1.01	1.12	1.23	Abrasive (cu.ft./hr & lbs/hr)
	2.5	3	3.5	4	4.5	5	Compressor hp
No. 3 (3/16")	26	30	33	38	41	45	Air (cfm)
	1.5	1.71	1.96	2.16	2.38	2.64	Abrasive (cu.ft./hr & lbs/hr)
	150	171	196	216	238	264	Compressor hp
No. 4 (1/4")	6	7	8	9	10	10	Air (cfm)
	47	54	61	68	74	81	Abrasive (cu.ft./hr & lbs/hr)
	2.68	3.12	3.54	4.08	4.48	4.94	Compressor hp
No. 5 (5/16")	11	12	14	16	17	18	Air (cfm)
	77	89	101	113	126	137	Abrasive (cu.ft./hr & lbs/hr)
	4.68	5.34	6.04	6.72	7.4	8.12	Compressor hp
No. 6 (3/8")	18	20	23	26	28	31	Air (cfm)
	108	126	143	161	173	196	Abrasive (cu.ft./hr & lbs/hr)
	6.68	7.64	8.64	9.6	10.52	11.52	Compressor hp
No. 7 (7/16")	24	28	32	36	39	44	Air (cfm)
	147	170	194	217	240	254	Abrasive (cu.ft./hr & lbs/hr)
	8.96	10.32	11.76	13.12	14.48	15.84	Compressor hp
No. 8 (1/2")	33	38	44	49	54	57	Air (cfm)
	195	224	252	280	309	338	Abrasive (cu.ft./hr & lbs/hr)
	11.6	13.36	15.12	16.8	18.56	20.24	Compressor hp

Pressure Loss in Air Hose

I.D.	Pressure Loss	Production Loss
3/4"	1.1 psi	16.6%
1"	2.4 psi	3.6%
1-1/4"	0.7 psi	1.0%
1-1/2"	0.2 psi	0.3%

Minimum Compressor Air Line Sizes

Nozzle	Orifice Size	Increase in Air Consumption
No. 4	1/4" 6.5mm	
No. 5	5/16" 8.0mm	60% more than No. 4
No. 6	3/8" 9.5mm	38% more than No. 5
No. 7	7/16" 11.0mm	36% more than No. 6
No. 8	1/2" 12.5mm	33% more than No. 7



The importance of nozzle pressure is illustrated above. Proper nozzle pressure (90-100 psi) results in high production cleaning and low abrasive use in the same amount of time.

System Air Volume Requirements at 100 psig

Nozzle	Orifice Size	Volume of Air	Plus Helmet	Plus 50% (reserve)	Minimum Air Required
No. 4	1/4"	81	20	50	151 cfm
	6.5mm	2.3	0.5	1.4	4.2 m ³ /min
No. 5	5/16"	137	20	79	236 cfm
	8.0mm	3.9	0.5	2.2	6.6 m ³ /min
No. 6	3/8"	196	20	108	324 cfm
	9.5mm	5.5	0.5	3	9.0 m ³ /min
No. 7	7/16"	254	20	137	411 cfm
	11.0mm	7.2	0.5	3.9	11.6 m ³ /min
No. 8	1/2"	338	20	179	537 cfm
	12.5mm	9.6	0.5	5	16.1 m ³ /min

Minimum Compressor Air Line Sizes

Nozzle	Nozzle Orifice Size	Minimum Air Line ID
No. 3	3/16"	1"
	5.0mm	25.0mm
No. 4	1/4"	1"
	6.5mm	25.0mm
No. 5	5/16"	1-1/4"
	8.0mm	32.0mm
No. 6	3/8"	1-1/2"
	9.5mm	38.0mm
No. 7	7/16"	2"
	11.0mm	50.0mm
No. 8	1/2"	2"
	12.5mm	50.0mm
No. 10	5/8"	2-1/2"
	16.0mm	64.0mm
No. 12	3/4"	3"
	19.0mm	76.0mm

Abrasive Comparison

Material	Mesh Size	Shape	Density lbs/ft ³	Mohs	Friability	Source	Typical Applications
Slag	8-80	Angular	85-112	7.0-7.5	high	By-Product	Outdoor blast cleaning
Steel Grit	10-325	Angular	230	8.0	low	Manufactured	Removing heavy scale
Steel Shot	8-200	Spherical	280	8.0	low	Manufactured	Cleaning, Peening
Al. Oxide	12-325	Angular	125	8.9-9.0+	med	Manufactured	Cleaning, Finishing, Deburring, Etching
Glass Beads	10-400	Spherical	85-90	5.5	med	Manufactured	Cleaning, Finishing
Garnet	12-80	Angular	45-60	3.0-4.0	low/med	Manufactured	Paint Stripping, Deflashing, Cleaning
Green Lightening	120	Angular	115	7.0	med	Natural	Paint Stripping, Cleaning
Corn Cob	8-40	Angular	35-45	2.0-4.5	med	By-Product	Removing paint from delicate surfaces

"We stock the most complete line of Corrosion



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10 Essential Components to Succeed in Today's Economy

In today's business environment, if you're standing still, you're moving backwards! Pursuing the details yields efficiency and competitiveness. Here is a list of the 10 Essential Blasting Components.

1. Compressed Air

FACT: 100 psig does twice the work of 60 psig

Pressure + Volume = Cost Effective

NPG-100



PBAG



**Does your compressor maintain pressure?
How much air does it TRULY produce?**

See Page 2 for importance of air pressure

2. Air Supply Hose

FACT: Hose ¼" undersized can restrict pressure by 30%

**Large Nozzle + Large Hose
= High Production**



**Small hose + Large Nozzle
= Low Production**

See Page 2 for importance of air pressure



3. Moisture

**FACT: Compressors generate heat while compressing air.
There WILL be moisture in your air.**



Wet Dirty Air Generates:

- Surface Contamination
- Up to 50% loss in production
- Up to 50% increase use of abrasive

See Air Dryers at clemtex.com/blasting/airdryers

4. Blast Machine

FACT: The Blast Machine is the Heart of the Operation



Low Production
Machine

**Large Piping
Avoid Sharp Angles
Precise Metering Valves**



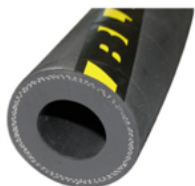
High Production
Machine

See Blast Machines at clemtex.com/blasting/machines



5. Blast Hose

FACT: Nozzle Size Determines Blast Hose Size



**Large Blast Hose + Small Nozzle
= Loss of Production**

**Small Blast Hose + Large Nozzle
= Loss of Production**



**Long Runs of Blast Hose = Loss
in Pressure & Production**

See Pressure Drop Information on Page 2

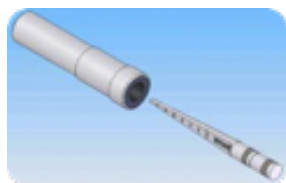
6. Blast Nozzle

**FACT: A nozzle worn 1/16" larger than original size will
DECREASE Production by 15-20%**



Worn Nozzle will yield:

- Increased air consumption
- Increased abrasive consumption
- Increased labor costs
- Decreased abrasive velocity



Test your nozzle
with PBAG and
NPG-100 gauges.

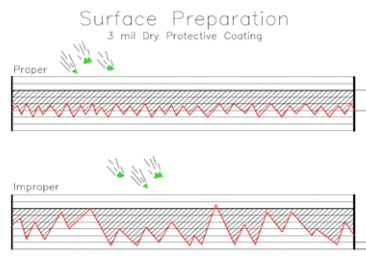


See Nozzles on Page 10



7. Abrasive

FACT: Poorly Graded Abrasive will DECREASE cleaning rates and INCREASE paint costs



Uneven anchor profile
Decreased cutting/cleaning rate
Increased paint usage to cover peaks
Increased coating failures

See Abrasives on Page 7

8. Operator Comfort and Safety

FACT: As Operator Comfort and Safety Increases, Performance increases and Injuries decrease



NIOSH approved air fed hood
Air conditioner/heater unit
Activated Charcoal and Particulate Filter
NIOSH approved helmet supply hose
Carbon Monoxide Monitor
Abrasive resistant clothing

See Operator Safety Equipment at clemtex.com/protectiveequipment



9. Blaster Technique

FACT: Skill of the Blasting WILL 'make' or 'break' a Job



Consistent movement of the nozzle
Monitor abrasive flow
Double blast welds and imperfections

See Blast Cleanliness Information on the Back Cover Page

10. Supervision and Communication

FACT: Limited Supervision yields Uncertain Outcome



***Communicate Expectations &
Observe Periodically with
Inspection Tools:***

- Blast pressure at nozzle***
- Nozzle orifice wear***
- Moisture content***
- Abrasive Quality***
- Equipment operation***
- Operator Technique***
- Operator safety equipment***
- Operator comfort***

See Inspection Equipment at clemtex.com/testing



Blasting Abrasives

All Grades are less than 1% Free Silica & Stocked in Clemtex Warehouses

Black Beauty



Black Beauty is a mineral slag that has sharp diamond-like cutting edges, and does not attract moisture, while providing fast cleaning rates, and an excellent anchor profile for a superior coating adhesion. **Grades** – BB-2 extra coarse, BB-3 medium, BB-4 fine, BB-6 extra fine. **Packaging** – 50# bags, 100# bags, 3000# bulk bags, 25 ton bulk loads

Green Diamond



Green Diamond is a mineral slag that has sharp cutting edges, well graded and very clean, while providing superior cleaning rates, and a containment free surface for superior coating adhesion. **Grades** – GD-2 (8/16 mesh) for marine and utility cleaning, GD-3 (16/36 mesh) for all purpose blasting, GD-4 (20/50 mesh) for new steel blasting and GD-6 (30/50) for general cleaning. **Packaging** – 50# bags, 100# bags, 3000# bulk bags, 25 ton bulk loads.

Green Lightning



Green Lightning is a naturally occurring mineral "Olivine" that is well graded and is generally used in blast rooms and cabinets. **Grades** – GL2.8 (40 mesh), GL2.0 (70 mesh), GL1.0 (100 mesh). **Packaging** – 50# bags, 100# bags

Starblast XL



Starblast is a naturally occurring mineral "Staurilite" that is fast cleaning and is generally used in blast rooms and cabinets. **Grades** – STR XL (40/80 mesh). **Packaging** – 50# bags.

Garnet



Garnet is a naturally occurring mineral that is precisely graded, fast cutting, may be recycled many times, and is used in blast rooms and cabinets. **Grades** – #16GAR (16 mesh), #36GAR (36 mesh), #60/80GAR (60/80 mesh), #80WS (80 mesh) graded specifically for water-jet cutting, #150GAR (150 mesh). **Packaging** – 100# bags.

Aluminum Oxide



Aluminum Oxide is fused alumina grains that are hard, blocky and tough for extra fast cutting action that is precisely screened for "specification use" which may be reclaim many times and is ideal for blast rooms and cabinets. **Grades** – #16, #24, #36, #54, #60, #80, #100, #120, #150, #180, #220 (finer grades are excellent for turbine blade cleaning). **Packaging** – 50# bags.

Steel Grit



Steel Grit is a high carbon angular pellet that is made in the range of hardness 32 to 65 Rockwell C which is highly recyclable producing minimal dust and used primarily in blast rooms. **Grades** – GR-14, GR-16, GR-25, GR-40, GR-50, GR-80.

Packaging – 50# bags, 55 gallon drums.

Steel Shot



Steel Shot is a high carbon, cast steel round media that is hardened and tempered that is used in centrifugal wheel blast machine and also used in applications requiring peening and hardening of critical surfaces. **Grades** – S-110 (.011" dia.), S-170 (.017" dia.), S-230 (.023" dia.), S-280 (.028" dia.), S-330 (.033" dia.), S-390 (.039" dia.), S-460 (.046" dia.). **Packaging** – 50# bags, 55 gallon drums.

Glassbeads



Glassbeads are microscopic spherical glass beads used in wet honing and dry blasting for cleaning, polishing, peening, de-burring and finishing operations achieving very close tolerances. **Grades** – 25/45 mesh, 50/80 mesh, 60/100 mesh, 70/140 mesh, 100/200 mesh, 170/325 mesh. **Packaging** – 50# bags.

Walnut Shells



Shellblast is a soft grit abrasive that is non-sparking, and will not scratch, pit or damage metal, also excellent for cleaning precision parts, impellers, electrical connections, and soft metals. **Grades** – AD-0B (4/6 Mesh), AD-1B (6/10 Mesh), AD-3B (12/20 Mesh), AD-6B (20/40 Mesh), AD-9B (40/100 Mesh). **Packaging** – 50# bags.

Corn Cob Grit



Grit-O-Cob is the crushed inner core of corn cobs and is a highly absorbent, non-sparking media that cleans electrical components and soft metal fast with no abrasion to the surface, and is also used in tumbling equipment. **Grades** – 8/14 Mesh, 14/20 Mesh, 20/40 Mesh. **Packaging** – 50# bags.

NOTE: O.S.H.A. Standard PB-246-697 states "...because silica sand is such severe silicosis hazard, abrasives with less than 1.0% free silica should be used as a substitute..."



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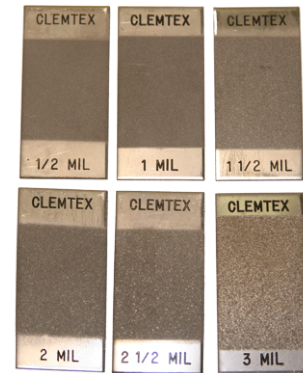
Clemtex Anchor Pattern Standards

The CAPS (Clemtex Anchor Pattern Standards) are designed for the purpose of a quick field inspection of a blast-cleaned surface to determine anchor pattern depth within 1/2 Mil.

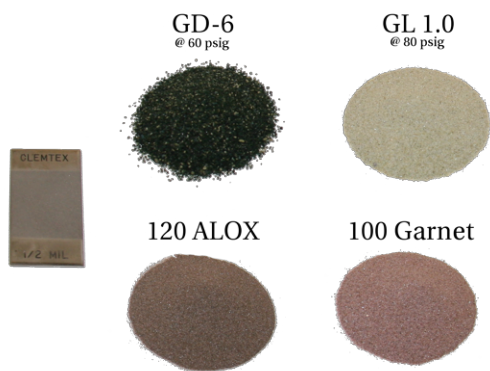
The anchor pattern is all-important to protective coatings in that it provides excellent coating adhesion. It is important that the anchor pattern be uniform over its entire surface. This is accomplished using a clean, well-graded or sized abrasive.

The chart included will aid in obtaining the proper abrasive size specified.

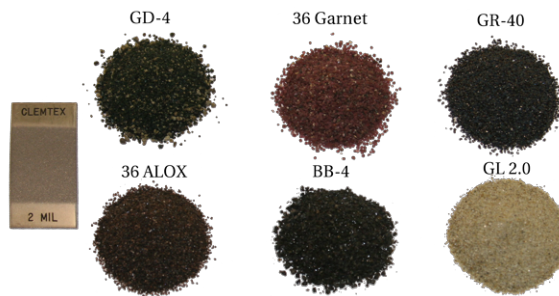
It should be remembered that abrasive sizes vary and a close inspection of size tolerance (approx. 10%) should be maintained, especially where abrasives are reclaimed and re-used. Reclaimed abrasives should be angular and not rounded and free from oil, grease, iron oxide, etc.



0.5 MIL



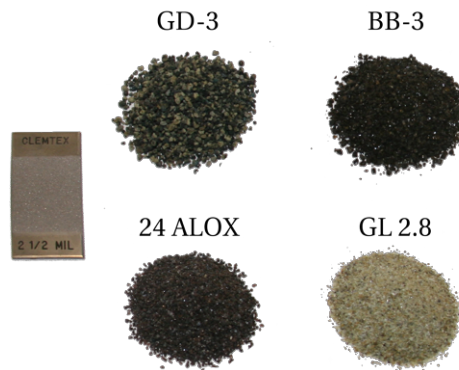
2.0 MIL



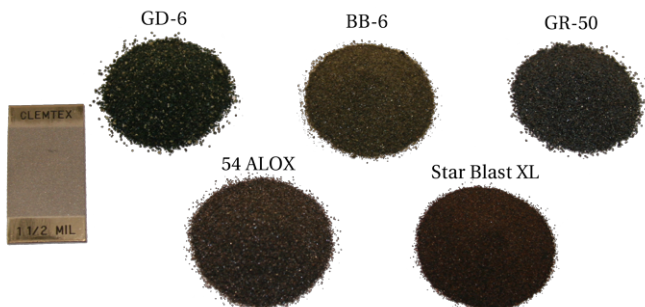
1.0 MIL



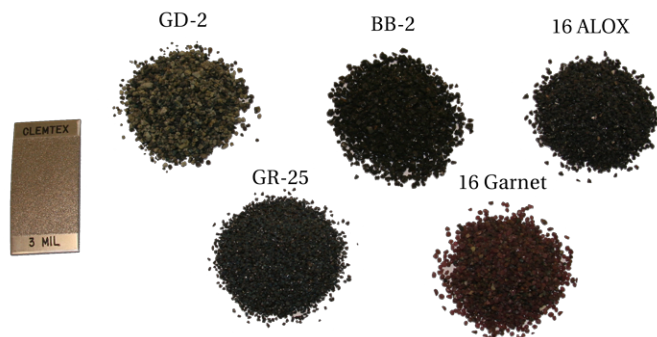
2.5 MIL



1.5 MIL



3.0 MIL



NOTE: 100 psig should be used for those not already stated.



Couplings and Blast Hose

Couplings

Hose I.D.	Hose O.D.	Model No.		
		Brass	Aluminum	Nylon
1/2"	1-5/32"		QCA00599	
3/4"	1-1/2"	CQB00563	QCA00568	CQP08412
1"	1-7/8"	CQB00564	QCA00569	CQP21711
1-1/4"	2-5/32"	CQB00565	QCA00570	CQP08414
1-1/2"	2-3/8"	CQB00566	QCA00573	CQP07714
1-1/2"	2-3/8"	CQB00567	QCA00574*	

* NOTE: QCA00574 is for 1-1/2" I.D. x 2-3/8" O.D. hose. It will not interconnect with any other quick coupling.

Threaded Quick Couplings

Thread Size	Brass	Aluminum
1/2"		CFA00558
3/4"		CFA00559
1-1/4"	CFB00551	
1-1/2"	CFB00553	CFA00561*
2"	CFB00555	CFA00556
2"		PAC00562*

* NOTE: These are for 1-1/2" I.D. x 2-3/8" O.D. hose. It will not interconnect with any other quick coupling.



Nozzle Holders

Hose Dimensions		Thread Type		
I.D.	O.D.	50mm	1-1/4"	3/4"
Nylon				
3/4"	1-1/2"	NHP04106	HEP07720	
1"	1-7/8"	NHP04127	HEP07721	
1-1/4"	2-5/32"	NHP04128	HEP07722	
Aluminum				
1/2"	1-5/32"			CHE00577
3/4"	1-1/2"		CHE00578	
1"	1-7/8"		CHE00579	
1-1/4"	2-5/32"		CHE00580	
1-1/2"	2-3/8"		CHE00581	



Blast Hose

I.D.	O.D.	Maximum Working Pressure	Weight Per 50'
4 Ply			
3/4"	1-1/2"	125 PSIG	33 lbs.
1"	1-7/8"	125 PSIG	45 lbs.
1-1/4"	2-5/32"	125 PSIG	57 lbs.
1-1/2"	2-3/8"	100 PSIG	64 lbs.
2-Braid			
1/2"	1-5/32"	175 PSIG	23 lbs.
3/4"	1-1/2"	160 PSIG	33 lbs.
1"	1-7/8"	160 PSIG	53 lbs.
1-1/4"	2-5/32"	160 PSIG	63 lbs.
2-Ply SUPA			
1-1/4"	1-7/8"	170 PSIG	35 lbs.





Nozzles

Short Barrel Nozzles

Used for blast applications where the operator must work within 12 inches of the surface.

One Inch Entry

Thread: 1 1/4" Straight Thread

Jacket: Kirksite

Liner: Tungsten Carbide

Length: 3 1/4"

Nozzle	Orifice Size	Part Number
No. 3	3/16"	CJD01378
No. 4	1/4"	CJD01379
No. 5	5/16"	CJD01380
No. 6	3/8"	CJD01381
No. 7	7/16"	CJD01382
No. 8	1/2"	CJD01383



Long Barrel Nozzles

Used for high production jobs where the operator can blast more than 12" from the surface.

One Inch Entry

Thread: 1 1/4" Straight Thread

Jacket: Kirksite

Liner : Tungsten Carbide

Nozzle	Orifice Size	Length	Part Number
No. 3	3/16"	4"	CSD01384
No. 4	1/4"	5-1/4"	CSD01385
No. 5	5/16"	5-5/8"	CSD01386
No. 6	3/8"	6-1/2"	CSD01387
No. 7	7/16"	7-3/4"	CSD01388
No. 8	1/2"	8-13/16"	CSD01389



CT style

A Tungsten Carbide Lined straight bore nozzle for use with small suction gun or blast cabinets. These are also used with model 1028 and 1042 Blast Machines.

Nozzle	Orifice Size	Part Number
No. 2	1/8"	CTO01351
No. 3	3/16"	CTO01352
No. 4	1/4"	CTO01353
No. 5	5/16"	CTO01354
No. 6	3/8"	CTO01355
No. 8	1/2"	CTO01356



CAM style

An angled nozzle designed to blast blind surfaces such as mold cavities or behind beams. They are Tungsten Carbide lined, and available in one or three outlets.

Nozzle	Orifice Size	Orifice Holes	Part Number
No. 4	1/4"	1	CAM01442
		3	CAM01444
No. 5	5/16"	1	CAM01445
		3	CAM01447
No. 6	3/8"	1	CAM01448
		3	CAM01450

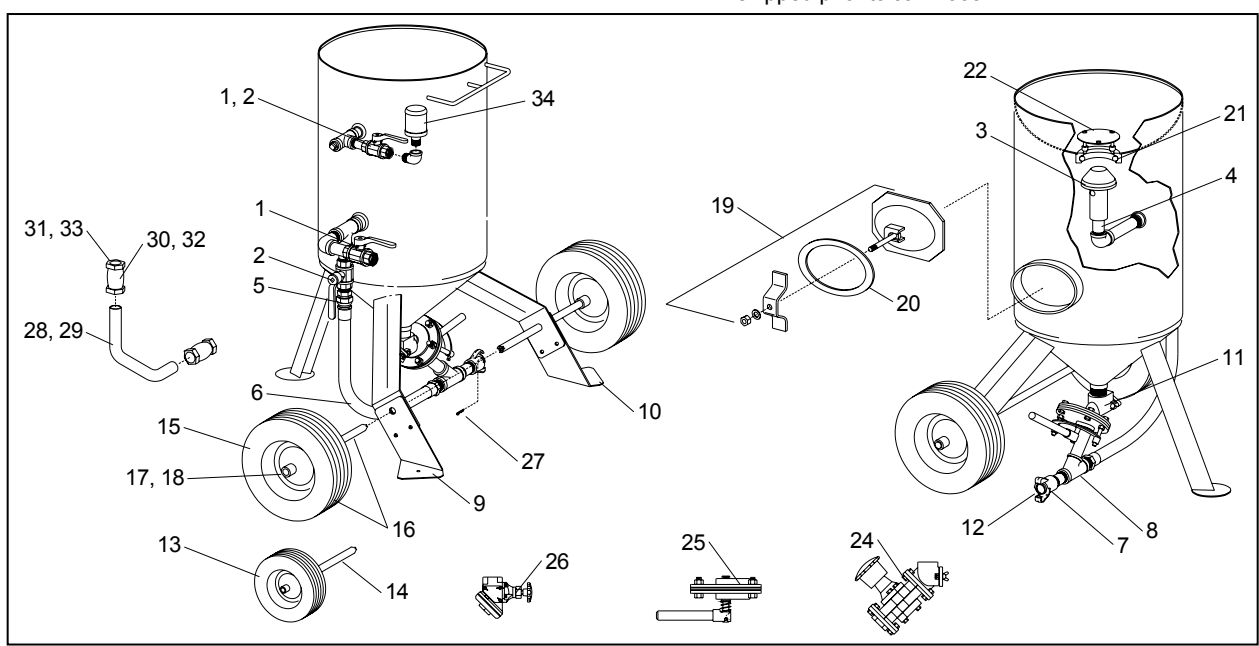


Blast Machines

6 Bag & 3 Bag Blast Machine - Clemco

Item	Description	Stock No.
1.	Ball valve with handle, 1-inch NPT	02396
	1-1/4-inch NPT	02397
2.	Handle, 1" ball valve,	22531
	1-1/4" ball valve.....	22532
3.	Pop-up valve, 4" with external sleeve	03699
4.	Internal pop-up guide, toe nipple, for 2 and 3 cu. ft. 1-1/4" x 6-1/2"	01754
	6 cu. ft. 1-1/4" x 6"	01753
5.	Adaptor, male NPT x male JIC 1" NPT	11720
	1-1/4" NPT	22529
6.	Pusher line, coupled 1" ID x 21" (2 cu ft machine).....	22508
	1" ID x 28" long (3 cu ft & larger).....	23673
	1-1/4" ID x 28" long (3 cu ft & larger)	23674
	1" x 19" long (Lo-Pot machines).....	24167
	1-1/4" x 19" long (Lo-Pot machines)	24168
7.	Coupling, 1-1/4" CF	00551
8.	Wye, 1-1/4" standard	01818
9.	Leg pad, right, for 1.5 cu ft, 3 cu ft, and 6 cu ft machine	03654
	2 cu ft machine	20735
10.	Leg pad, left, for 1.5 cu ft, 3 cu ft, and 6 cu ft machine	03655
	2 cu. ft. machine	20736
11.	Metering valve, FSV w/ wye.....	02427
12.	Gasket, CQG coupling, (package of 10)	00850
13.	Wheel and tire, 10 x 2.75, for 2 cu. ft.	20349
14.	Axle, 2 cu. ft. 10" Wheel	20734
15.	Wheel and tire, 16 x 400	02338
16.	Axle and 16" wheel set for 3 cu. ft. machine	02822
	6 cu. ft. machine	02350
17.	Washer, 1" thrust	03825
18.	Retaining ring, 1"	03824
19.	Inspection door assembly, 6" x 8"	02377
20.	Gasket, 6" x 8" inspection door	02369
21.	Seat, pop-up gum rubber, standard use	02325
	neoprene, for hot climates	02380
22.	Umbrella, optional, 4" bolt-on	02318
23.	Muffler, exhaust	05068
24.	Metering valve, optional manual pinch tube	04321
25.	Metering valve, for Lo-pot machines	05680
26.	Metering valve, optional manual Quantum	22845
27.	Lock pin, coupling (package of 25)	11203
28.*	Formed pipe pusher line, 1"	01865
29.*	Formed pipe pusher line, 1-1/4"	01866
30.*	Compression coupling, 1"	01856
31.*	Gasket, 1" compression coupling,	01885
32.*	Compression coupling, 1-1/4"	01857
33.*	Gasket, 1-1/4" compression coupling	01886

* Used on 30" & larger machines, & all machines shipped prior to Jan 2003



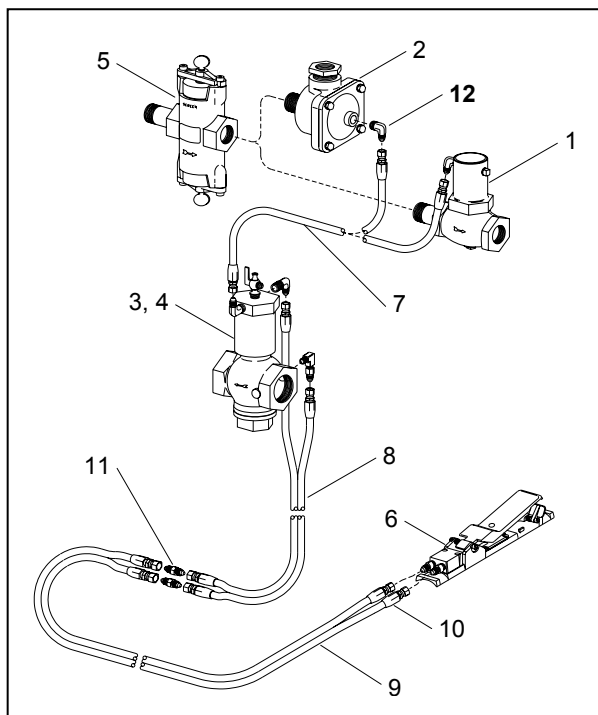


TLR 100/300 Remote Control Systems

Description	Stock No.
TLR-100, 1" w/ piston outlet valve	01935
TLR-300, 1-1/4" w/ piston outlet valve	01936
TLR-100D, 1" w/ diaphragm outlet valve	03449
TLR-300D, 1-1/4" w/ diaphragm outlet valve	03448

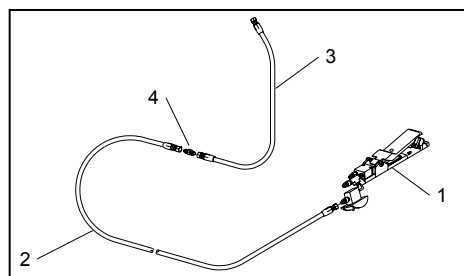
Replacement Parts

Item	Description	Stock No.
1.	Outlet valve, 1" piston	01967
2.	Outlet valve, 1" diaphragm	03371
3.	Inlet valve 1"	01980
4.	Inlet valve 1-1/2"	01995
5.	Abrasive trap	02011
6.	RLX control handle	10565
7.	Hose, 3/16" x 18" coupled	02454
8.	Hose, 5' Twinline coupled	01952
9.	Hose end, reusable	01943
10.	Hose, 50' Twinline coupled	01951
11.	Union, Twinline hose	01944
12.	Elbow, 1/4" NPT adaptor	02513



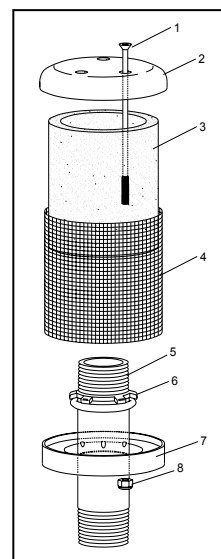
ACS Systems Replacement Parts

Item	Description	Stock No.
1.	RLX Control handle w/ ACS switch	07625
2.	Hose, 50' single line coupled	01951
3.	Hose, 3/16" x 18" coupled	02454
4.	Union, Twinline hose	01944



Exhaust Muffler

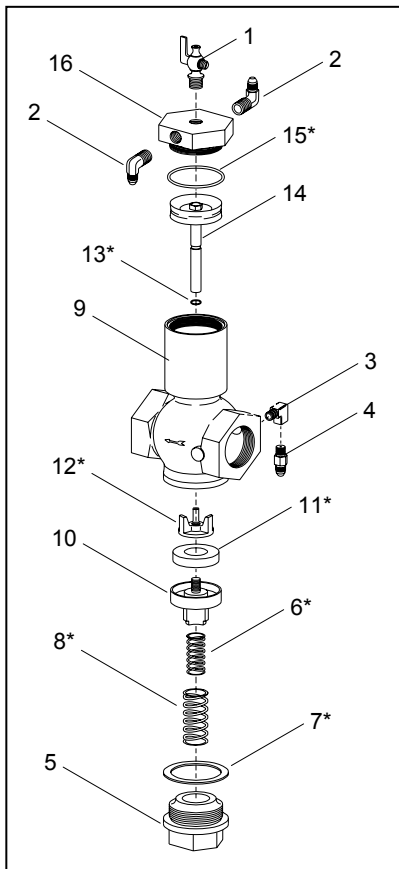
Item	Description	Stock No.
(-)	Muffler, complete	05068
1.	Screw, 8-32 x 4"	05061
2.	Cap, coated	05067
3.	Body, element	05065
4.	Screen	05060
5.	Guide w/ guide nut	22344
6.	O-ring, 1-1/4" ID	05069
7.	Seat	05062
8.	Lock-nut, 8-32 stainless steel	05815





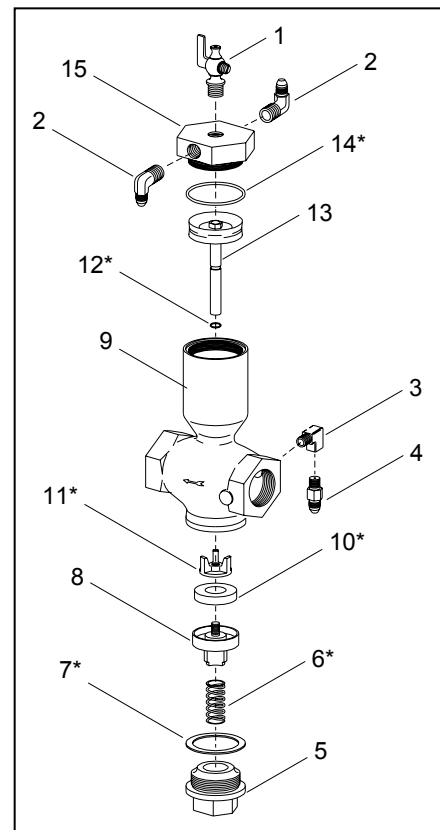
1-1/2" Inlet Valve

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" x 1-11/16" 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.*	O-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

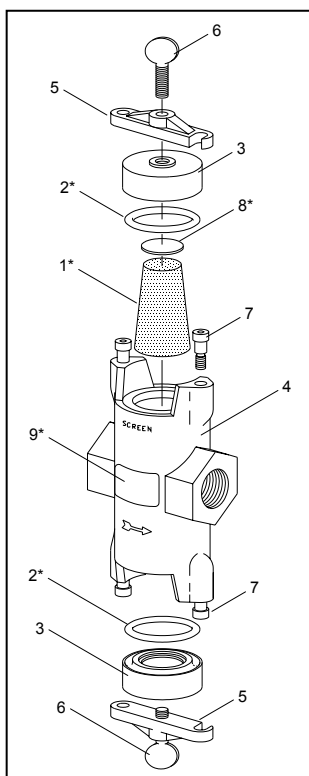
Item	Description	Stock No.
(-)	1" Inlet Valve, complete	01980
1.	Petcock 1/4" NPT	01993
2.	Elbow, 1/8" NPT adaptor	02827
3.	Elbow, 1/8" brass street	03993
4.	Adaptor 1/8" NPT with 1/16" orifice	01945
5.	Bottom cap	01985
6.*	Spring, 5/8" x 1-11/16" long (1)	01982
7.*	Seal, bottom cap (1)	01989
8.	Valve plug	01984
9.	Valve body	01981
10.*	Washer, valve plug (2)	01969
11.*	Retainer, valve plug washer (1)	01986
12.*	O-Ring 3/16" ID x 1/16" (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





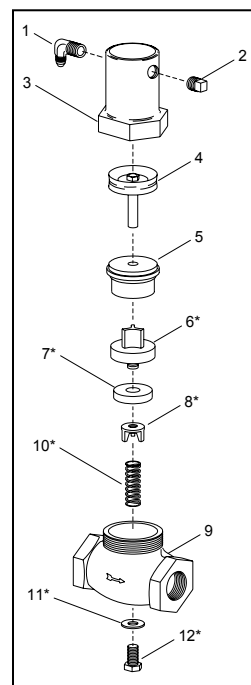
Abrasive Trap

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" NC x 1" thumb	03289
7.	Shoulder screw, 3/8" x 3/8"	03291
8.*	Gasket, screen, 1/8" thick (1)	02434
9.*	Decal, clean screen (1)	02129
(-)	Service kit, includes items marked *, quantity is shown in ()	01925



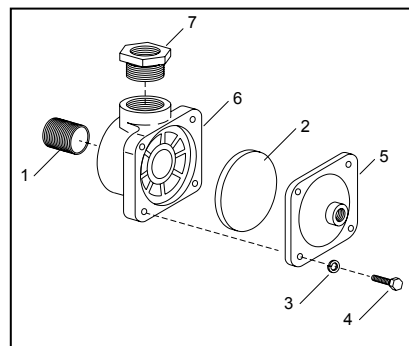
1" Piston Outlet Valve

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" x 1-5/8" long (1)	01974
11.*	Nylon washer (1)	01979
12.*	Cap screw, 3/8-NC x 3/4" (1)	03251
(-)	Service kit, includes items marked *, quantity is shown in ()	01928

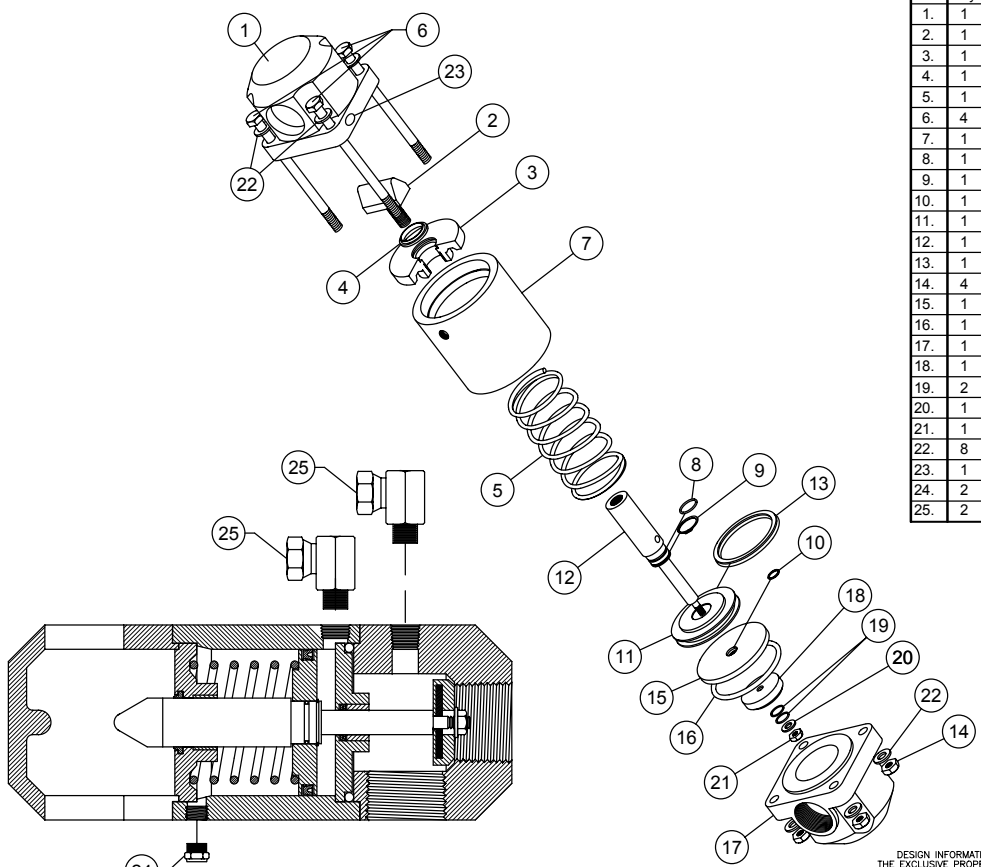


1" Diaphragm Outlet Valve

Item	Description	Stock No.
(-)	1" Diaphragm Outlet Valve, complete	03371
1.	Nipple, 1" x close	01701
2.	Diaphragm	06149
3.	Lockwasher, 1/4"	03117
4.	Cap screw, 1/4-NC x 1" hh	03053
5.	Cap, diaphragm outlet	03393
6.	Body, diaphragm outlet	06135
7.	Bushing, 1-1/4" x 1"	01804



Combo Valve: 2223-002



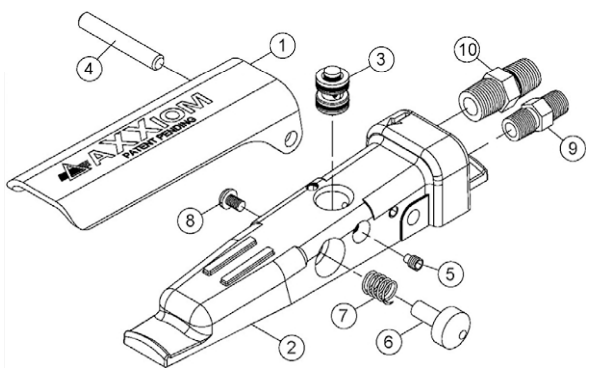
No.	Qty.	Part No.	Description
1.	1	2223-002-01	Cap
2.	1	2223-002-02	Pinch Ram
3.	1	2223-002-03	Upper Rod Guide
4.	1	2223-002-04	Seal (Upper Rod)
5.	1	2223-002-05	Spring
6.	4	7010-511-18	Bolt, 1/2" UNC x 9"
7.	1	2223-002-07	Cylinder
8.	1	2223-002-08	O-ring (Shaft)
9.	1	2223-002-09	Snap Ring
10.	1	2223-002-10	Seal (Lower Rod)
11.	1	2223-002-11	Piston
12.	1	2223-002-12	Shaft
13.	1	2149-000-04	Piston Seal
14.	4	2149-000-08	Nut, 1/2" UNC
15.	1	2223-002-15	Lower Rod Guide
16.	1	2223-002-16	O-ring (Lower Rod Guide)
17.	1	2223-002-17	Base
18.	1	2223-002-21	Valve Plug
19.	2	2223-002-20	O-ring (Combo Valve Plug)
20.	1	7016-507	Fender Washer, 3/8"
21.	1	7019-507	Nylock Nut, 3/8" UNC
22.	8	7027-504-02	Flat Washer, 1/2" SAE
23.	1	2223-002-19	Combo Drive Pin
24.	2	2014-300	Vent, 1/8"
25.	2	4203-504-04	90° Swivel, 1/2" x 1/2"

SECTION VIEW

PROPRIETARY INFORMATION
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 PERSONNEL WITHOUT THE EXPRESSED WRITTEN CONSENT OF AXIOM MANUFACTURING, INC.
 EXCLUSIVE MANUFACTURER OF SCHMIDT® PRODUCTS

Schmidt G2 Deadman Valve

Item	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
*8.	Items included in Replacement Kit	





Abrasive Metering Valves

Flat Sand Valve: FSV02427

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

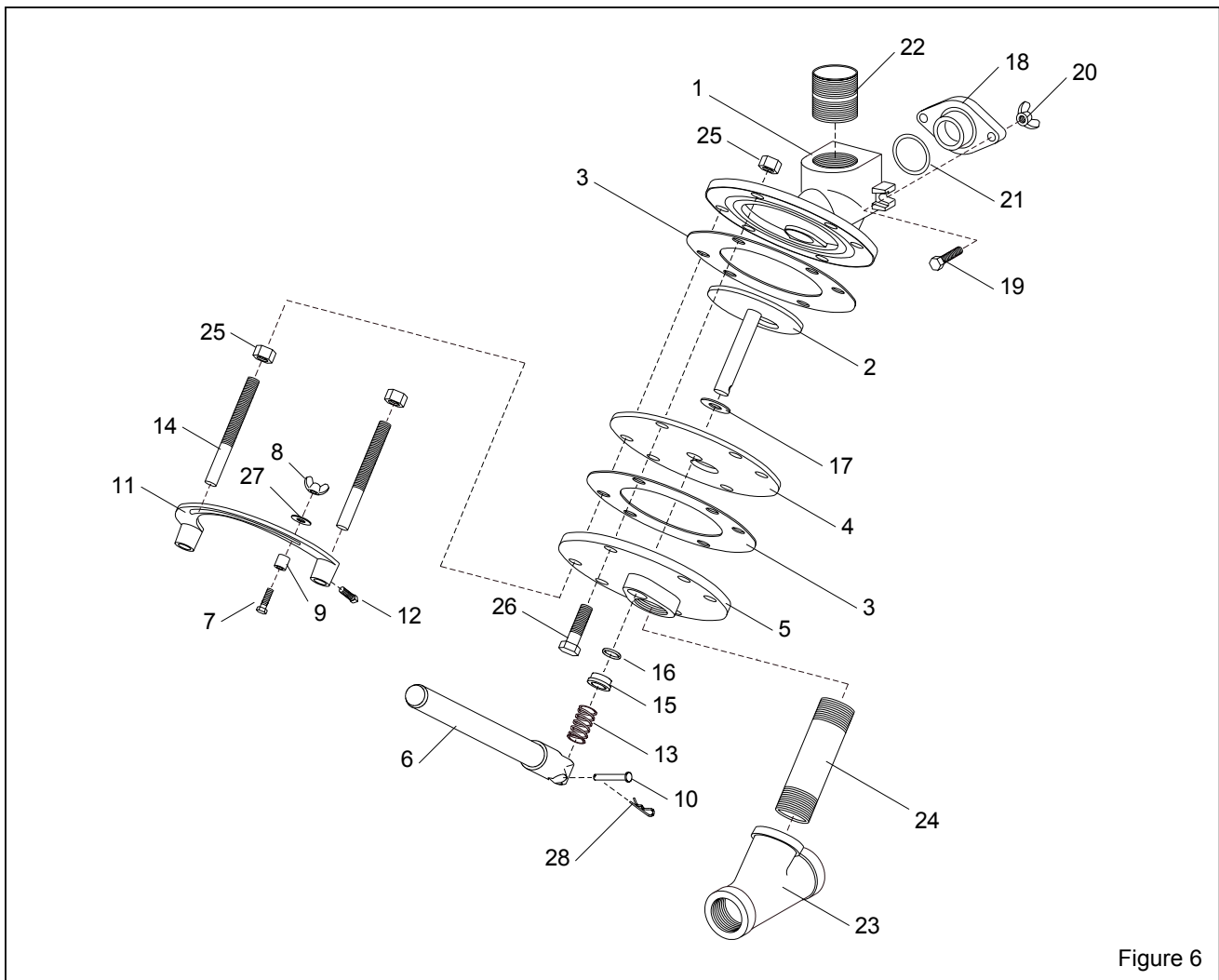


Figure 6



Micro Valve: 2127-108

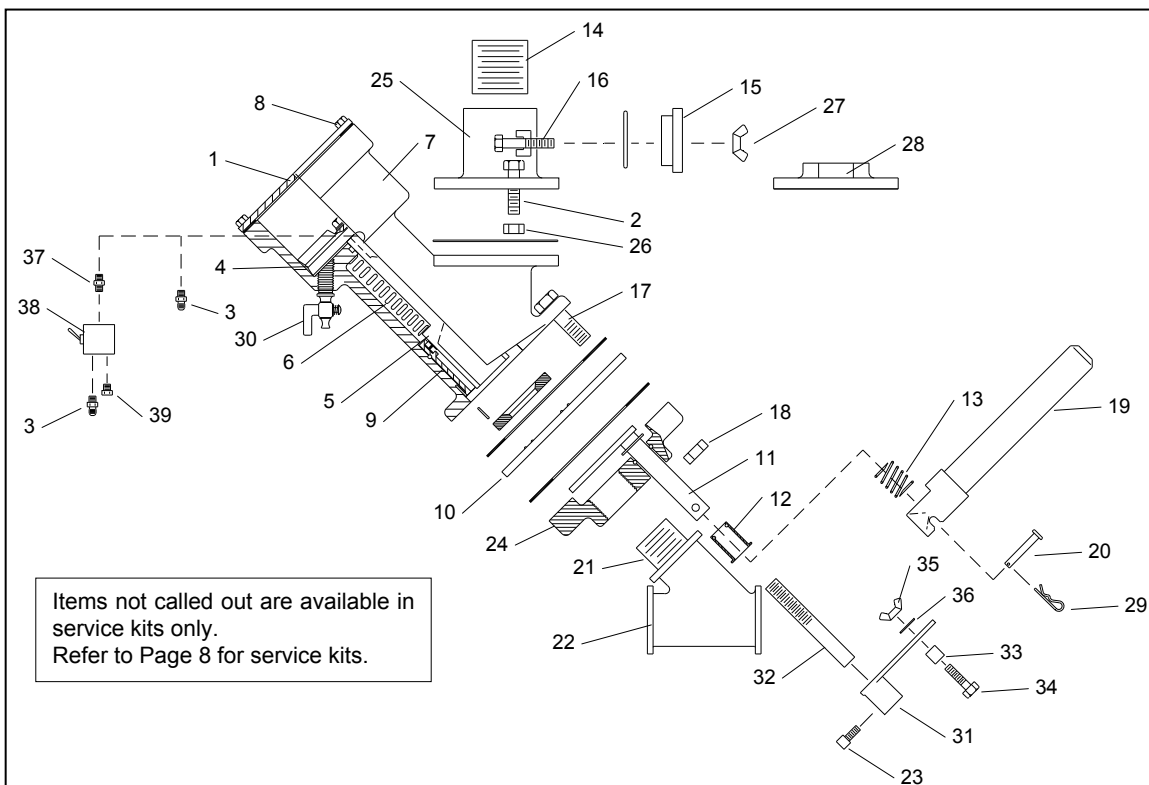
No.	Part No.	Description
	2127-100-98	Replacement Part Kit, Seals Only
	2127-100-99	Replacement Part Kit
1.	2127-000-01	Knob
2.*	7011-005-06O	Socket Head Cap Screw, 5/16" x 1" Lg. Self Sealing
3.	7010-507-06	Hex Bolt, 3/8" x 1" Lg.
5.*	2127-000-05	Plunger
6.	2127-000-06	Body
7.*+ 2149-500-06		Plunger Seal
8.*+ 2127-100-08		Polyurethane Sleeve
9.*+ 2127-000-09		O-Ring
10.	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 Part Kit		
+ Included In Replacement Part Kit, Seals Only		



Sentinel Valve

Replacement Parts

Item	Description	Stock No.			
			18.	Nut, 1/2-NC hex head	03511
			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, 1-1/4" 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
			39.	Breather, muffler 1/8"	07657





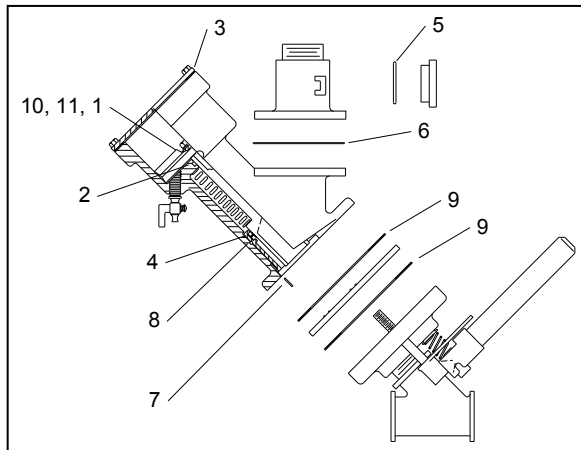
Sentinel Continued...

Replacement Valves

- (-) Sentinel valve with attached ACS, standard-use for abrasives coarser than 50-mesh, with inspection plate20508 without inspection opening20509
- (-) Sentinel valve, w/o attached ACS, standard-use for abrasives coarser than 50-mesh, with inspection plate20608 without inspection opening20609
- (-) Sentinel valve w/o attached ACS, fine-mesh for abrasives 50-mesh and finer with inspection plate21439

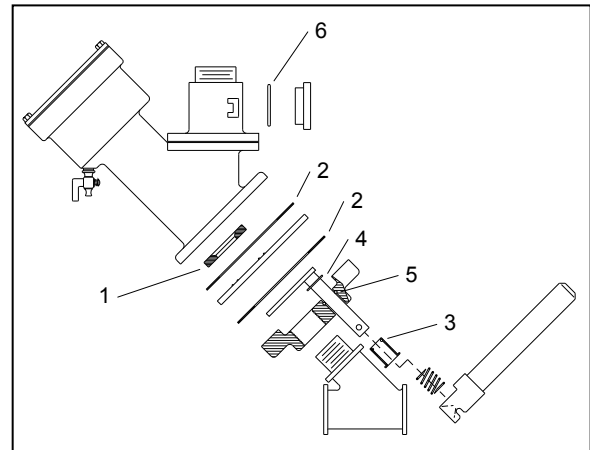
Service Kits – 22388 Upper Segment

- | Item | Qty. | Description |
|------|------|---|
| 1. | 1 | Washer, rubber backed |
| 2. | 1 | O-ring, piston shaft bore, 3/4" ID nom. |
| 3. | 1 | Gasket, cylinder cap |
| 4. | 2 | U-seal |
| 5. | 1 | O-ring, inspection plate 1-3/4" OD nom. |
| 6. | 1 | Gasket, flanged adaptor |
| 7. | 1 | Roll pin, 1/16" x 1/2" |
| 8. | 1 | O-ring, Main body, 2-1/4" nom. |
| 9. | 2 | Gasket, seat plate |
| 10. | 1 | Cap screw, 3/8-NC x 2" |
| 11. | 1 | Washer, 5/16" flat |



Service Kits – 22389 Lower Segment

- | Item | Qty. | Description |
|------|------|--|
| 1. | 1 | Seat, rubber |
| 2. | 2 | Gasket, seat plate |
| 3. | 1 | O-ring, gland, 5/8" ID nom. |
| 4. | 2 | Gasket, shaft
(One is for standard-use [coarse media] has a 1-3/8" nominal OD)
(One is for a urethane plate [fine-mesh] has a 1" nominal OD) |
| 5. | 1 | O-ring, lower body 1" ID |
| 6. | 1 | O-ring, Inspection plate, 1-3/4" OD nom. |



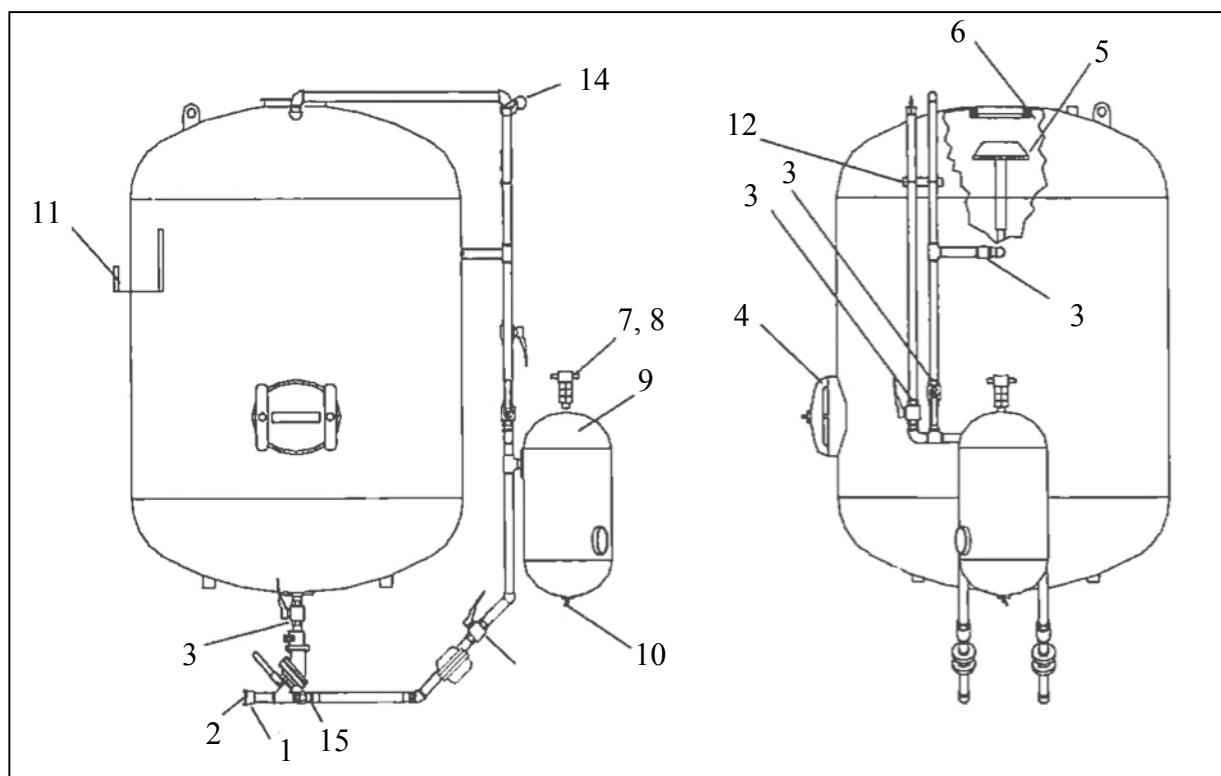


CLEMTEX

Houston Office
 248 McCarty Dr.
 P.O. Box 15214
 Houston, TX 77220-5214
 (713) 672-8251
 Fax (713) 672-6336

Clemtex Bulk Machine

Item	Description	Stock No			
1.	Coupling, 1-1/4" thread.....	CFB00551	8.	Element, 1/2" filterFRP95209	
2.	Gasket, coupling (package of 10)	CQG00850	9.	Water separator tank, 16"	SBT1500
3.	Ball valve w/ handle, 1-1/4"	F400-1-1/4	10.	Petcock, 1/4".....	VA542
4.	Gasket, manway door.....	PBT3	11.	Hanger, hose	05158
5.	Pop-up valve w/ stem, 8".....	PRP05643	12.	U-bolt 5/16".....	03276
6.	Seal, 8" pop-up seat	PRP05641	13.	Check valve, 1-1/4".....	TLR2088
7.	Air filter, 1/2".....	F3008M00	14.	Rain cap	20829
			15.	Adaptor, 1-1/4" NPT x JIC.....	22529



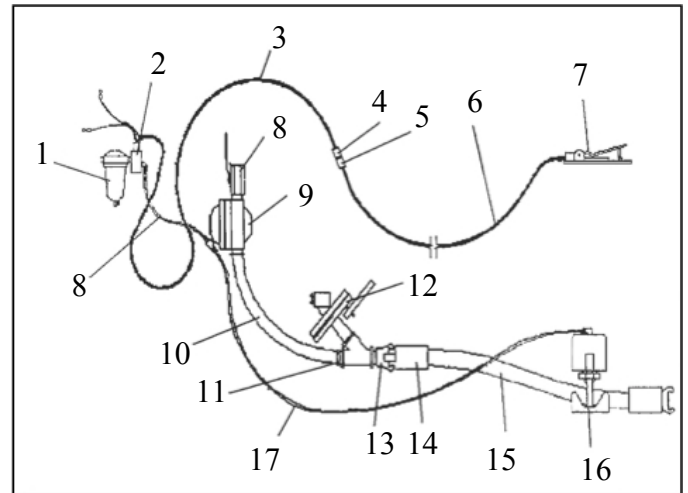
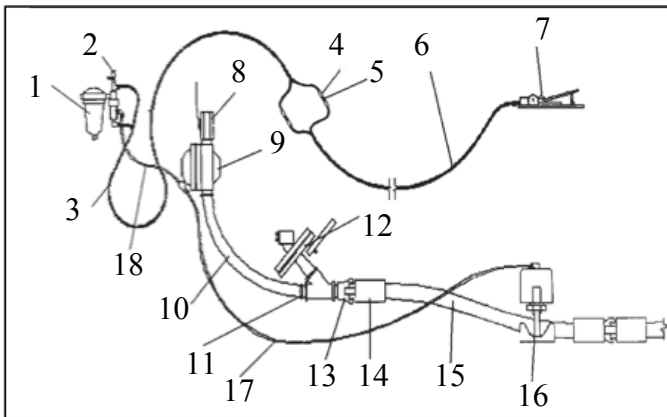


Pneumatic Remote Controls

Item	Description	Stock No.
1.	Moisture Trap.....	F3008M00
2.	Control Valve	TRL02024
3.	Twinline Hose Assy, 10ft.....	TLR01944
4.	Hose End, 3/16", Reusable	TLR610
5.	Hose Adaptor	TLR01944
6.	Twinline Hose Assy, 60ft.....	TLR660
7.	Deadman Valve	RLX10565
8.	Ball Valve, 1-1/4"	F400-1-1/4
9.	Air Valve, 1-1/4"	5720
10.	Pusherline, 1-1/4" x 31"	23675
11.	Adaptor, Pusherline.....	22529
12.	Abrasive Metering Valve, FSV.....	FSV02427
13.	Coupling, Threaded 1-1/4" NPT	CFB00551
14.	Coupling, CQ-3.....	CQB00565
15.	Blast Hose, 1-1/4" I.D.	CSH114 (Specify Length)
16.	Pinch Valve Assy.....	CLCPV
17.	Air Hose Assy, 1/4" I.D. x 10ft.....	CAH1014C
18.	Air Hose Assy, 1/4" I.D. x 5ft.....	CAH514C

Electric Remote Controls

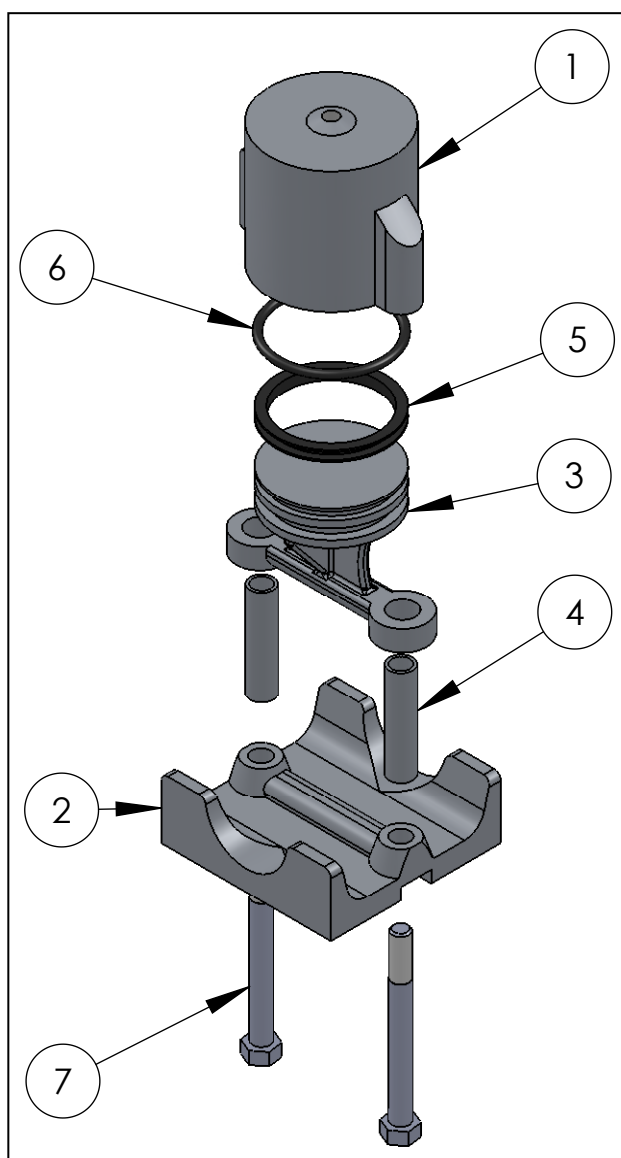
Item	Description	Stock No.
1.	Moisture Trap.....	F3008M00
2.	Electric Solenoid, 12VDC.....	TLR812E
3.	Electric Cord, 10ft.....	CEW10
4.	Plug, Female.....	CEWFC
5.	Plug, Male.....	CEWMC
6.	Electric Cord, 50ft.....	CEW50
7.	Electric Deadman Valve	RLVE
8.	Ball Valve, 1-1/4"	F400-1-1/4
9.	Air Valve, 1-1/4"	5720
10.	Pusherline, 1-1/4" x 31"	23675
11.	Adaptor, Pusherline.....	22529
12.	Abrasive Metering Valve, FSV	FSV02427
13.	Coupling, Threaded 1-1/4" NPT	CFB00551
14.	Coupling, CQ-3.....	CQB00565
15.	Blast Hose, 1-1/4" I.D.	CSH114 (Specify Length)
16.	Pinch Valve Assy.....	CLCPV
17.	Air Hose Assy, 1/4" I.D. x 10ft.....	CAH1014C
18.	Air Hose Assy, 1/4" I.D. x 5ft.....	CAH514C





Pinch Valve: CLCPV

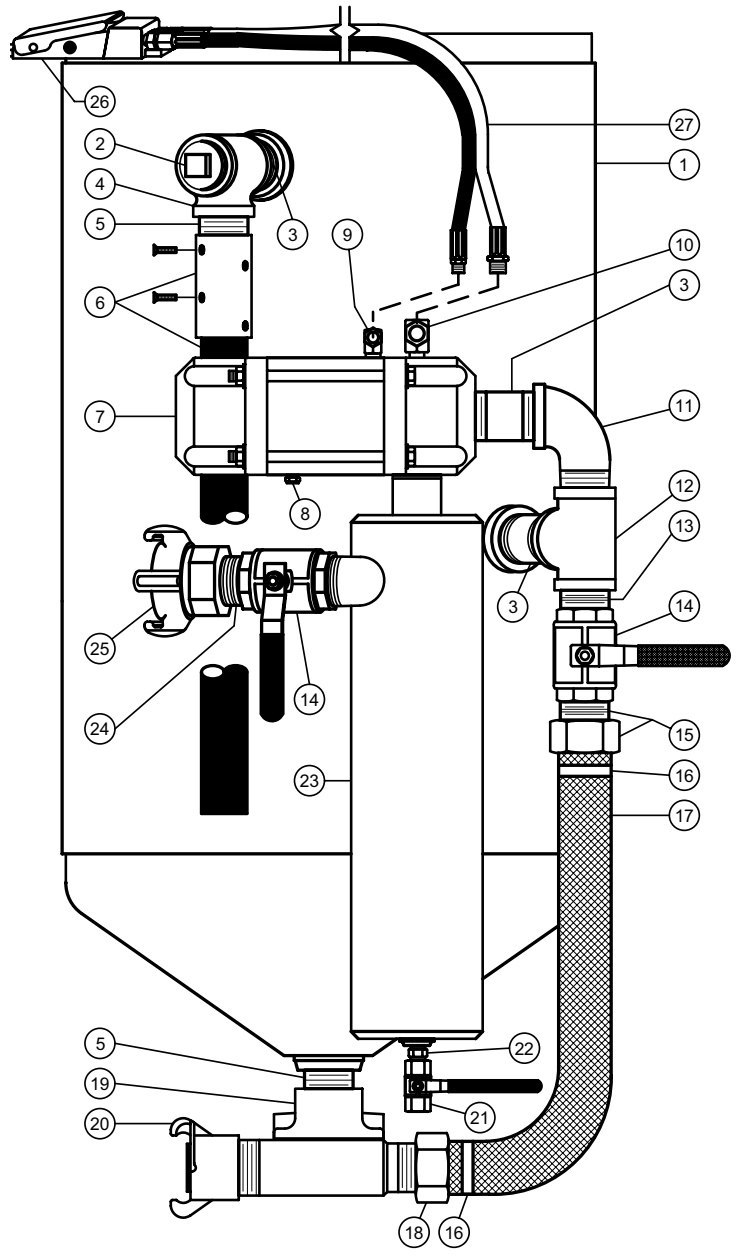
Item	Description	Stock No.
1.	Cylinder	CLCPV2
2.	Base	CLCPV7
3.	Piston.....	CLCPV5
4.	Bolt Cylinder.....	CLCPV6
5.	U-Cup Seal	CLCPV4
6.	O-Ring.....	CLCPV3
7.	Bolt	CLCPV9





Schmidt 3.5-10 cf Blast Pot

3.5 - 10 cu. ft Vessels



1" Piping with Combo-Micro Valve		
No.	Part. No.	Description
1.	See page 3	Pressure Vessel
2.	3014-007	Plug, 1 1/4"
3.	3029-007-11	Nipple, 1 1/4" x 3"
4.	3011-007	Tee, 1 1/4"
5.	3029-007-99	Nipple, 1 1/4" x close
6.	4115-005	Blowdown Hose Assembly, 3/4" x 18"
	4215-405	Nozzle Holder
	4104-005	Blast Hose (per foot)
7.	2223-000	Combo Valve (See page 15)
8.	2014-300	Breather Vent, 1/8"
9.	4203-500-00	90° Swivel, 1/8" x 1/8"
10.	4203-502-02	90° Swivel, 1/4" x 1/4"
11.	3006-007	90° Street Elbow, 1 1/4"
12.	3013-007-06	Tee, 1 1/4" x 1"
13.	3029-006-99	Nipple, 1" x close
14.	2401-506	Ball Valve, 1" full port
15.	3029-006-99	Nipple, 1" x close
	4205-106	Swivel Insert, 1" with gasket
	4205-106-99	Gasket
16.	4228-508	Bandit Clamp
17.	4102-006	Air Hose, 1" (per foot)
18.	3029-006-99	Nipple, 1" x close
	4205-106	Swivel Insert, 1" with gasket
	4205-106-99	Gasket
19.	2125-106	Micro Valve, 1" (See page 14)
20.	4214-108-01	Blast Hose Coupling with gasket
	4214-999	Gasket
21.	2401-502	Ball Valve, 1/4" full port
22.	3031-312-02	Hex Nipple, 1/4" x 1/4"
23.	1200-006	Moisture Separator, 1"
24.	(Not Required)	
25.	4208-106	Crowfoot, 1" 2-lug male with gasket
	4209-999	Gasket
26.	2263-000	Deadman, pneumatic (See page 16)
27.	4100-501	Twinline Hose Assembly, 55 ft
	4100-701	Twinline Hose Assembly, 110 ft

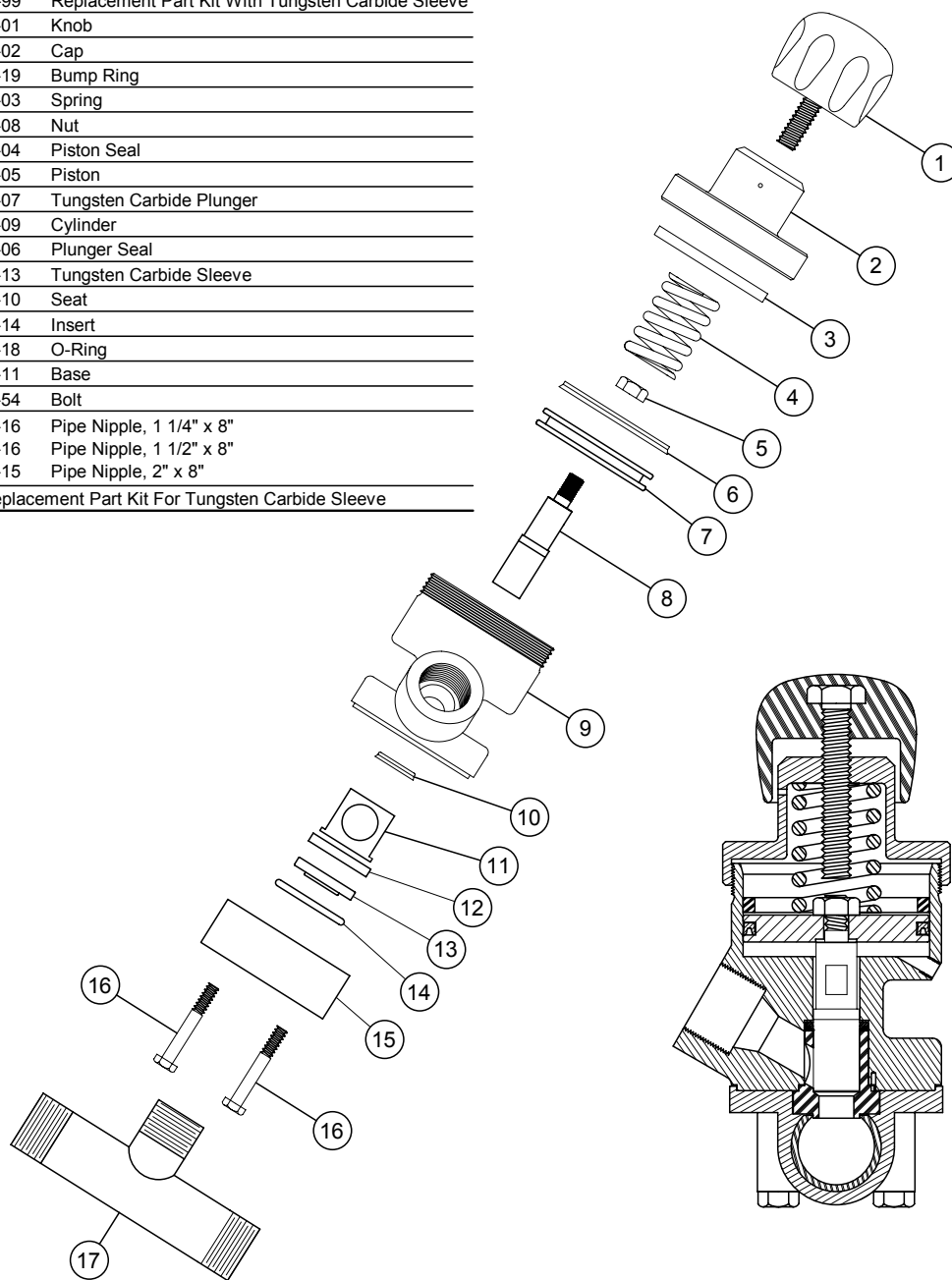
1 1/4" Piping with Combo-Micro Valve		
No.	Part. No.	Description
1.	See page 3	Pressure Vessel
2.	3014-007	Plug, 1 1/4"
3.	3029-007-11	Nipple, 1 1/4" x 3"
4.	3011-007	Tee, 1 1/4"
5.	3029-007-99	Nipple, 1 1/4" x close
6.	4115-005	Blowdown Hose Assembly, 3/4" x 18"
	4215-405	Nozzle Holder
	4104-005	Blast Hose (per foot)
7.	2223-000	Combo Valve (See page 15)
8.	2014-300	Breather Vent, 1/8"
9.	4203-500-00	90° Swivel, 1/8" x 1/8"
10.	4203-502-02	90° Swivel, 1/4" x 1/4"
11.	3006-007	90° Street Elbow, 1 1/4"
12.	3011-007	Tee, 1 1/4"
13.	3029-007-99	Nipple, 1 1/4" x close
14.	2401-507	Ball Valve, 1 1/4" full port
15.	3029-007-99	Nipple, 1 1/4" x close
	4205-107	Swivel Insert, 1 1/4" with gasket
	4205-107-99	Gasket
16.	4228-509	Bandit Clamp
17.	4102-007	Air Hose, 1 1/4" (per foot)
18.	3029-007-99	Nipple, 1 1/4" x close
	4205-107	Swivel Insert, 1 1/4" with gasket
	4205-107-99	Gasket
19.	2125-107	Micro Valve, 1 1/4" (See page 14)
20.	4214-108-01	Blast Hose Coupling with gasket
	4214-999	Gasket
21.	2401-502	Ball Valve, 1/4" full port
22.	3031-312-02	Hex Nipple, 1/4" x 1/4"
23.	1200-007	Moisture Separator, 1 1/4"
24.	3029-007-99	Nipple, 1 1/4" x close
25.	4211-107	Crowfoot, 1 1/4" 4-lug with gasket
	4211-999	Gasket
26.	2263-000	Deadman, pneumatic (See page 16)
27.	4100-501	Twinline Hose Assembly, 55 ft
	4100-701	Twinline Hose Assembly, 110 ft



Thompson Valve Large Bore

	2149-507	1 1/4" Valve With Tungsten Carbide Sleeve
	2149-508	1 1/2" Valve With Tungsten Carbide Sleeve
	2149-509	2" Valve With Tungsten Carbide Sleeve
No.	Part No.	Description
	2149-500-99	Replacement Part Kit With Tungsten Carbide Sleeve
1.	2149-000-01	Knob
2.	2149-000-02	Cap
3.	2149-000-19	Bump Ring
4.	2149-000-03	Spring
5.	2149-000-08	Nut
6.*	2149-000-04	Piston Seal
7.	2149-500-05	Piston
8.*	2149-500-07	Tungsten Carbide Plunger
9.	2149-500-09	Cylinder
10.*	2149-500-06	Plunger Seal
11.*	2149-500-13	Tungsten Carbide Sleeve
12.*	2149-500-10	Seat
13.*	2149-500-14	Insert
14.*	2149-500-18	O-Ring
15.	2149-500-11	Base
16.	7010-507-54	Bolt
17.	2149-507-16	Pipe Nipple, 1 1/4" x 8"
	2149-508-16	Pipe Nipple, 1 1/2" x 8"
	2149-009-15	Pipe Nipple, 2" x 8"

* Included In Replacement Part Kit For Tungsten Carbide Sleeve

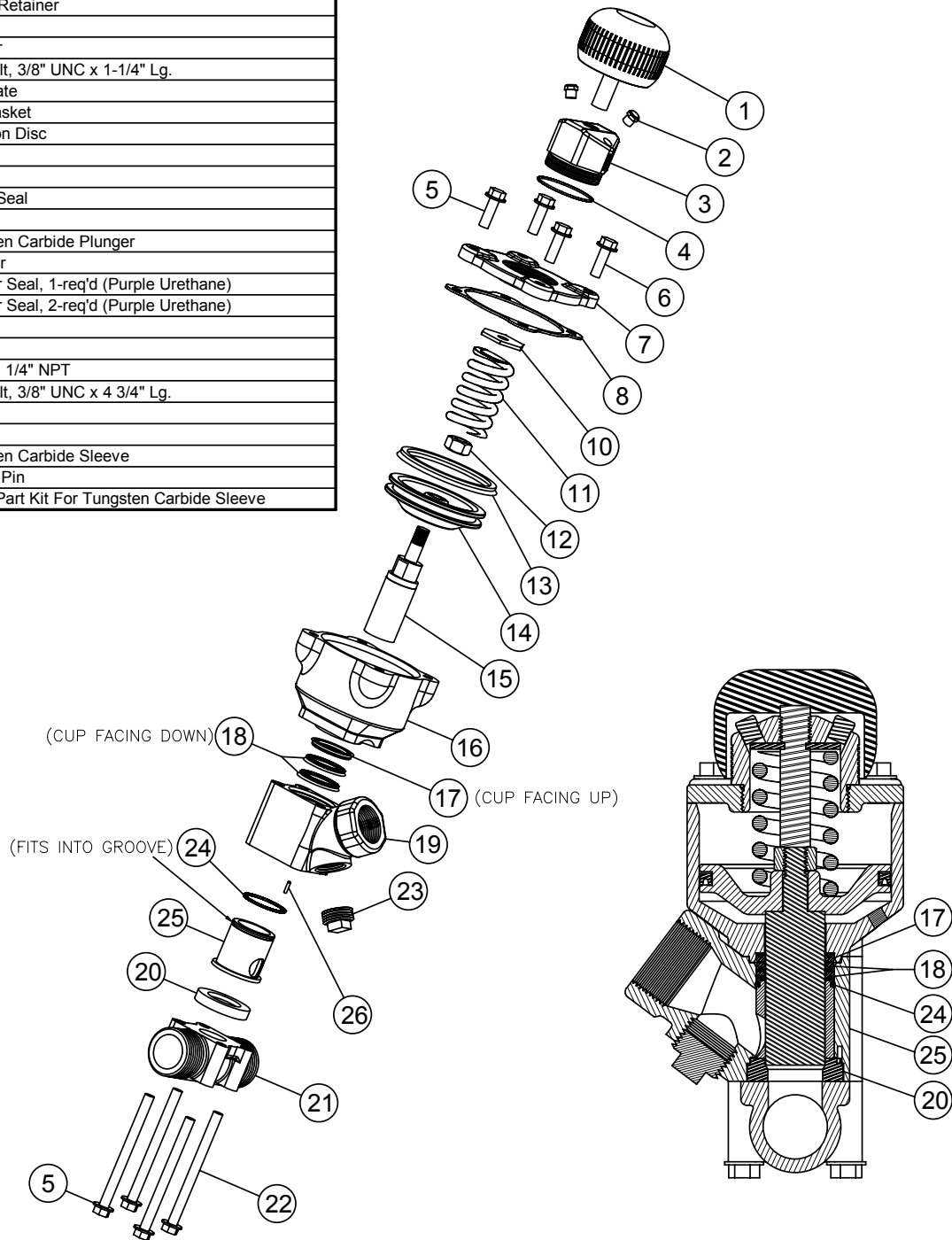




Thompson II Valve: 2152-007

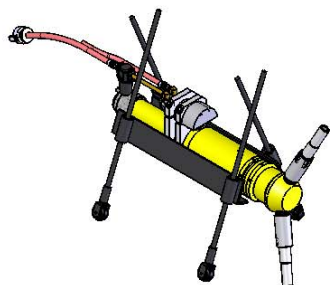
No.	Part No.	Description
	2152-000-99	Replacement Part Kit With Tungsten Carbide Sleeve
1.	2152-000-01	Knob
2.	2152-000-17	Breather Vent
3.	2152-000-12	Spring Retainer
4.*	2152-000-18	O-Ring
5.	7027-503-02	Washer
6.	7010-507-07	Hex Bolt, 3/8" UNC x 1-1/4" Lg.
7.	2152-000-02	Cap Plate
8.*	2152-000-16	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-req'd (Purple Urethane)
18.*	2152-000-06	Plunger Seal, 2-req'd (Purple Urethane)
19.	2152-000-14	Body
20.*	2152-000-10	Seat
21.	2152-000-15	Base, 1 1/4" 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

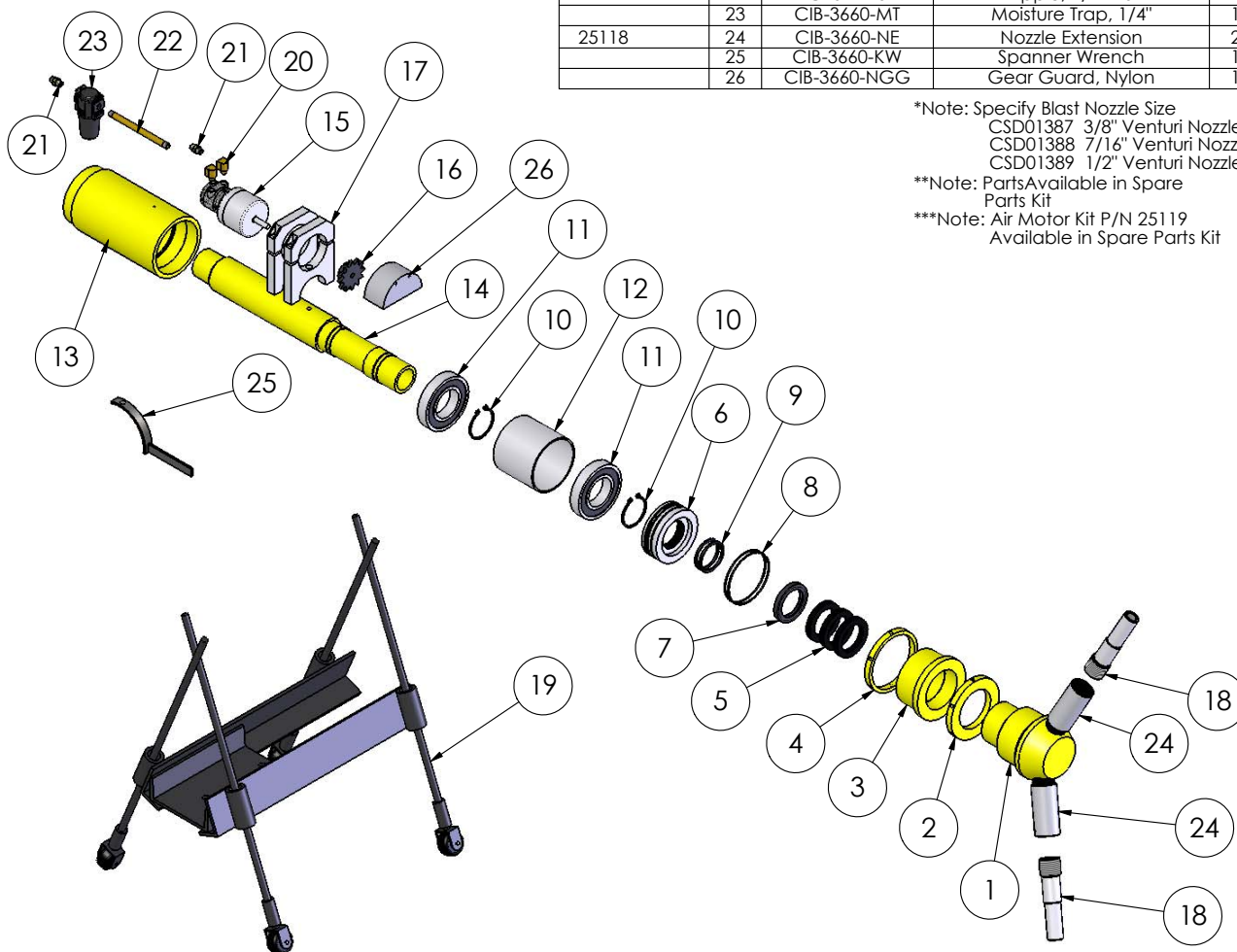




Internal Diameter Blast Equipment Heavy Duty Spinblast Tool: SB-636-B



CLEMCO PART NO.	ITEM #	CLEMTEX PART NO.	DESCRIPTION	QTY.
25100	1	CIB-3660-1	Blast Head	1
25102	2	CIB-3660-3	Bushing, Main Body	1
25101	3	CIB-3660-2	Lock Ring, Blast Head	1
25103	4	CIB-3660-4	Lock Ring, Bushing	1
**25104	5	CIB-3660-5	Packing Gasket, Gland	3
25105	6	CIB-3660-9	Seal Gland	1
**25106	7	CIB-3660-6	Seal	1
**25107	8	CIB-3660-7	O-Ring, Gland, Outer	2
**25108	9	CIB-3660-8	O-Ring, Gland, Inner	2
**25109	10	CIB-3660-10	Lock Ring	2
**25110	11	CIB-3660-11	Bearing	2
25111	12	CIB-3660-12	Spacer Sleeve	1
25112	13	CIB-3660-13	Body	1
25113	14	CIB-3660-14	Tube	1
***25114	15	CIB-3660-15	Air Motor & Gear Reducer Assy	1
25115	16	CIB-3660-SPRKT	Sprocket	1
25116	17	CIB-3660-17	Mounts, Air Motor	1
*See Note	18	*See Note	Nozzle (*See Note)	2
25117	19	CIB-3660-CA	H. D. Centering Carriage	1
	20	CPS-14x90	Street Elbox, 1/4" x 90, Brass	2
	21	CPS-14	Nipple, 1/4" x Close	2
	22	CPS-14x6	Nipple, 1/4" x 6"	1
	23	CIB-3660-MT	Moisture Trap, 1/4"	1
25118	24	CIB-3660-NE	Nozzle Extension	2
	25	CIB-3660-KW	Spanner Wrench	1
	26	CIB-3660-NGG	Gear Guard, Nylon	1



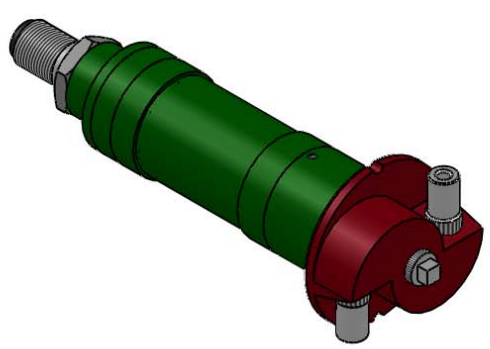
*Note: Specify Blast Nozzle Size
 CSD01387 3/8" Venturi Nozzle
 CSD01388 7/16" Venturi Nozzle
 CSD01389 1/2" Venturi Nozzle

**Note: Parts Available in Spare Parts Kit

***Note: Air Motor Kit P/N 25119 Available in Spare Parts Kit

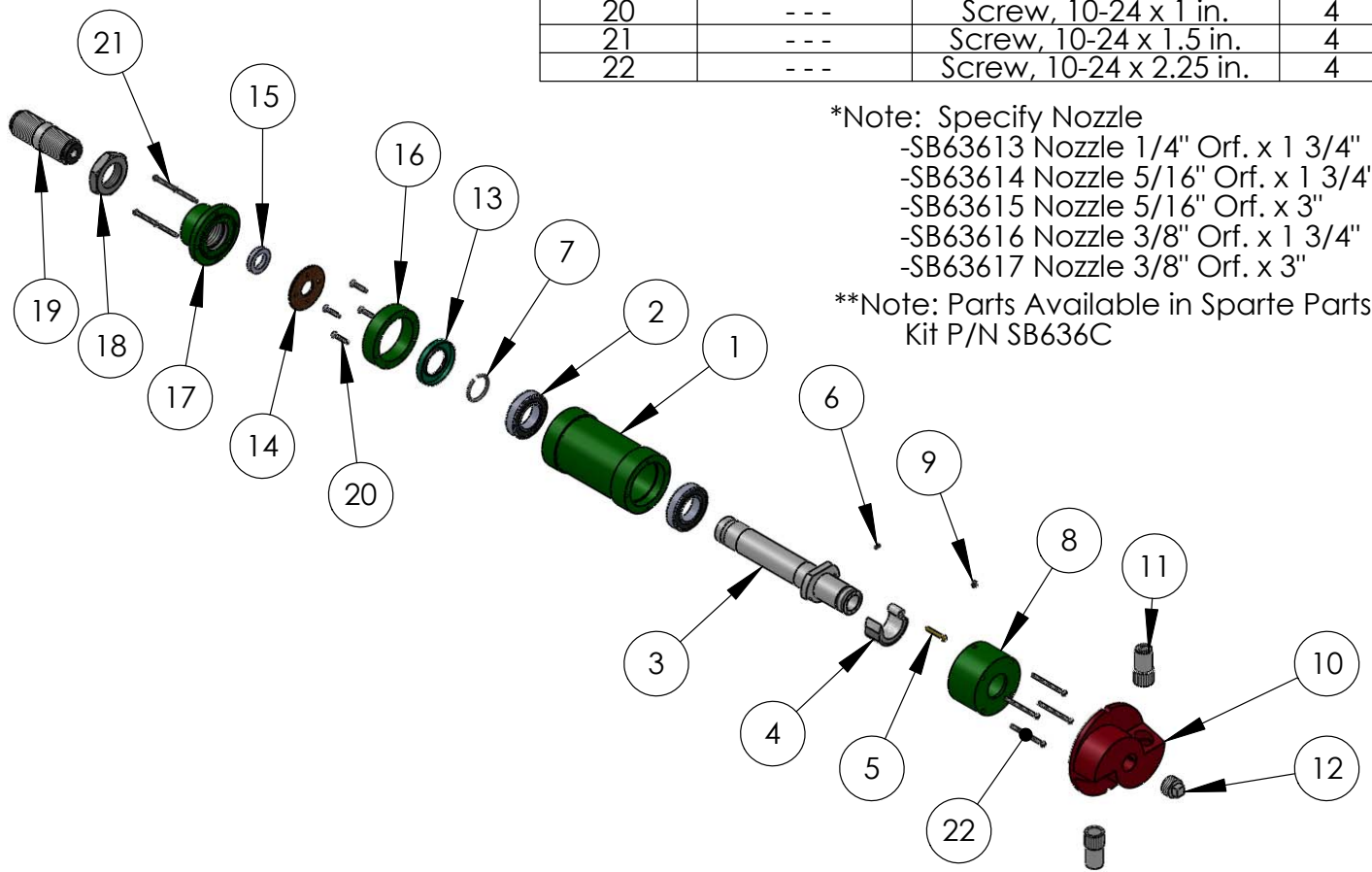


Spinblast Tool: SB-636-A



Operational and Maintenance videos are available.

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	SB63612	Main Body	1
2	SB6366	Sealed Bearing	2
3	**SB6365	Tube	1
4	**SB6364	Brake with Lining	1
5	---	Break Pin	1
6	---	Brake Pin Set Screw	1
7	**SB6365-1	Bearing Lock Ring	1
8	SB6362	Brake Housing	1
9	---	Break Housing Set Screw	1
10	**SB6361	Nozzle Head	1
11	*SB636--	Tungsten Lined Nozzle	2
12	**SB6361-1	1 in. Plug	1
13	SB6368	Bearing Seal	1
14	**SB6368-1	Leather Dust Seal	1
15	**SB6369-1	Tungsten Washer	1
16	SB63612-1	Seal Retainer	1
17	SB6369	Rear End Plate	1
18	SB63611	Locking Nut	1
19	**SB63610	Nipple Rubber Lined	1
20	---	Screw, 10-24 x 1 in.	4
21	---	Screw, 10-24 x 1.5 in.	4
22	---	Screw, 10-24 x 2.25 in.	4



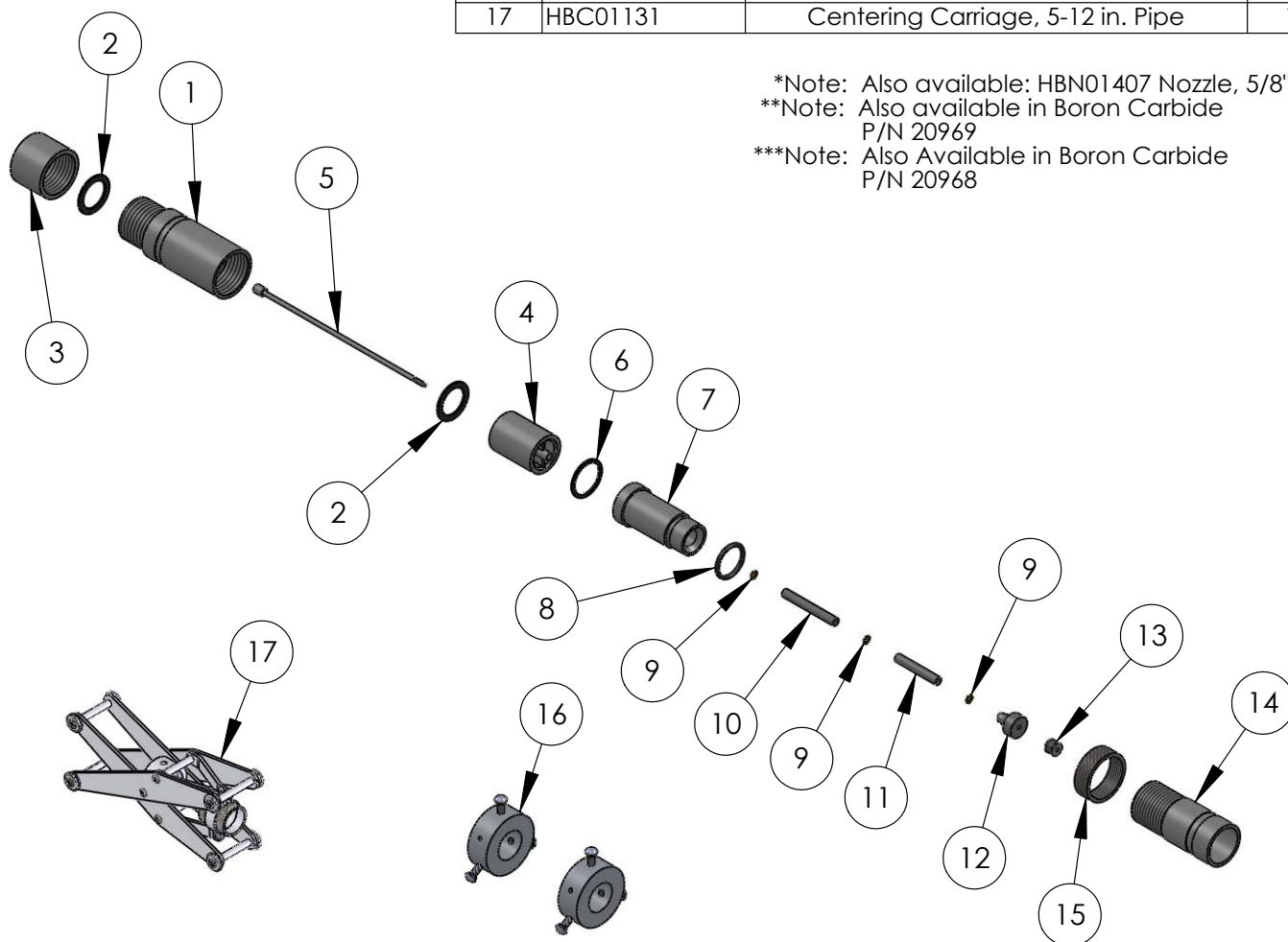
*Note: Specify Nozzle
 -SB63613 Nozzle 1/4" Orf. x 1 3/4"
 -SB63614 Nozzle 5/16" Orf. x 1 3/4"
 -SB63615 Nozzle 5/16" Orf. x 3"
 -SB63616 Nozzle 3/8" Orf. x 1 3/4"
 -SB63617 Nozzle 3/8" Orf. x 3"

**Note: Parts Available in Sparte Parts Kit P/N SB636C



Holloblast Tool: HBS01076

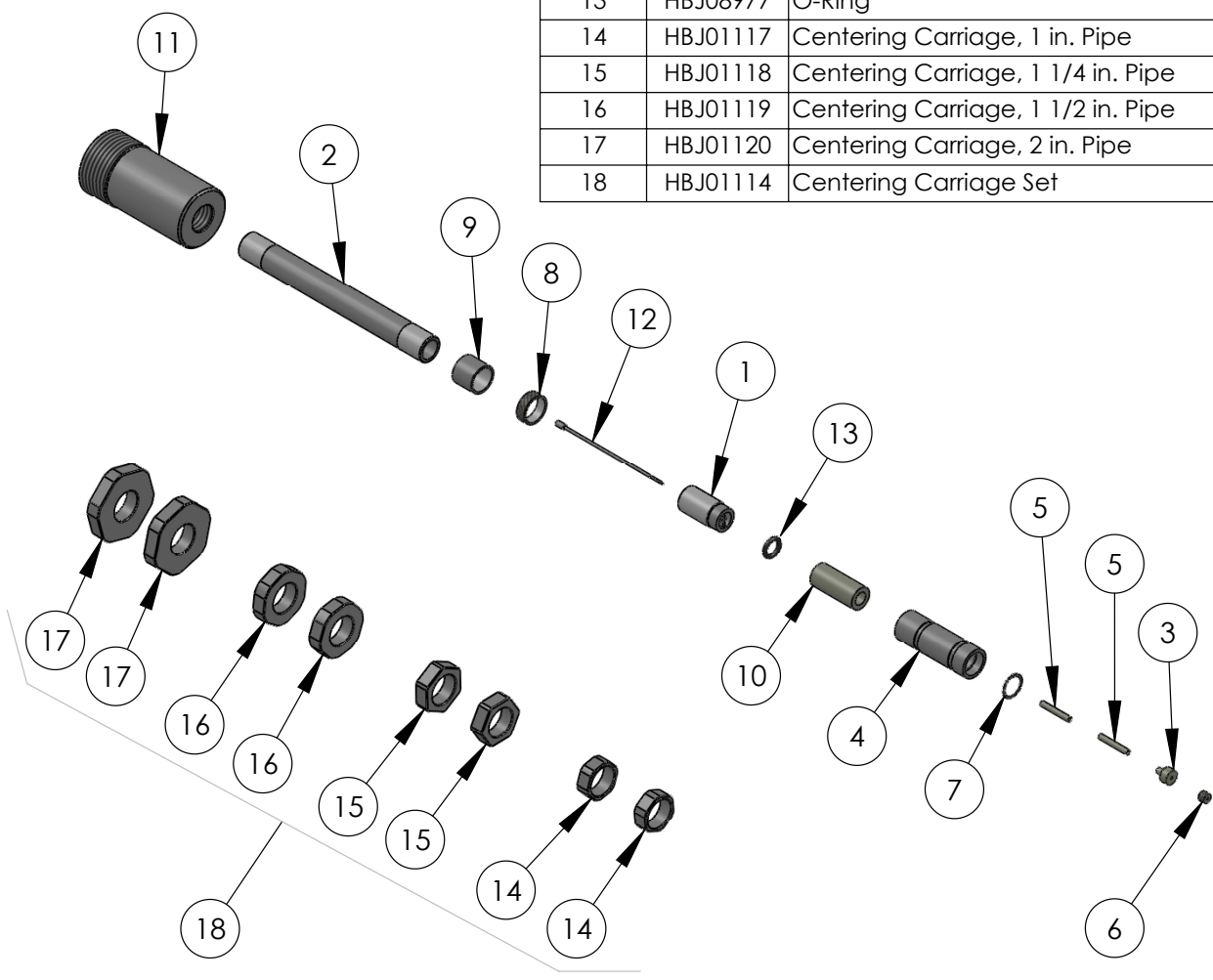
Item No.	Part No.	Description	Qty.
1	HBS01079	Tool Holder	1
2	HBS01094	Rear Gasket, Stem Support	2
3	HBS01095	Coupling	1
4	HBS01080	Stem Support Assy. (incl. HBS01086)	1
5	HBS01086	Throat Rod and Tip	1
6	HBS01093	Front Gasket, Stem Support	1
7	HBN01406*	Nozzle, 1/2" orf.	1
8	HBS01097	O-Ring	1
9	HBS01096	Washer, Brass	3
10	HBS01084**	Throat Sleeve, Long, Tungsten Carbide	1
11	HBS01085**	Throat Sleeve, Short, Tungsten Carbide	1
12	HBS01078***	Deflection Tip, Tungsten Carbide	1
13	HBS01089	Tip Holding Nut	1
14	HBS01090	Tip Protection Sleeve	1
15	HBS01092	Knurled Lock Nut	1
16	HBC01124	Centering Carriage, 3-5 in. Pipe	1
17	HBC01131	Centering Carriage, 5-12 in. Pipe	1



*Note: Also available: HBN01407 Nozzle, 5/8" orf.
 **Note: Also available in Boron Carbide
 P/N 20969
 ***Note: Also Available in Boron Carbide
 P/N 20968

Holloblast Junior: HBJ01098

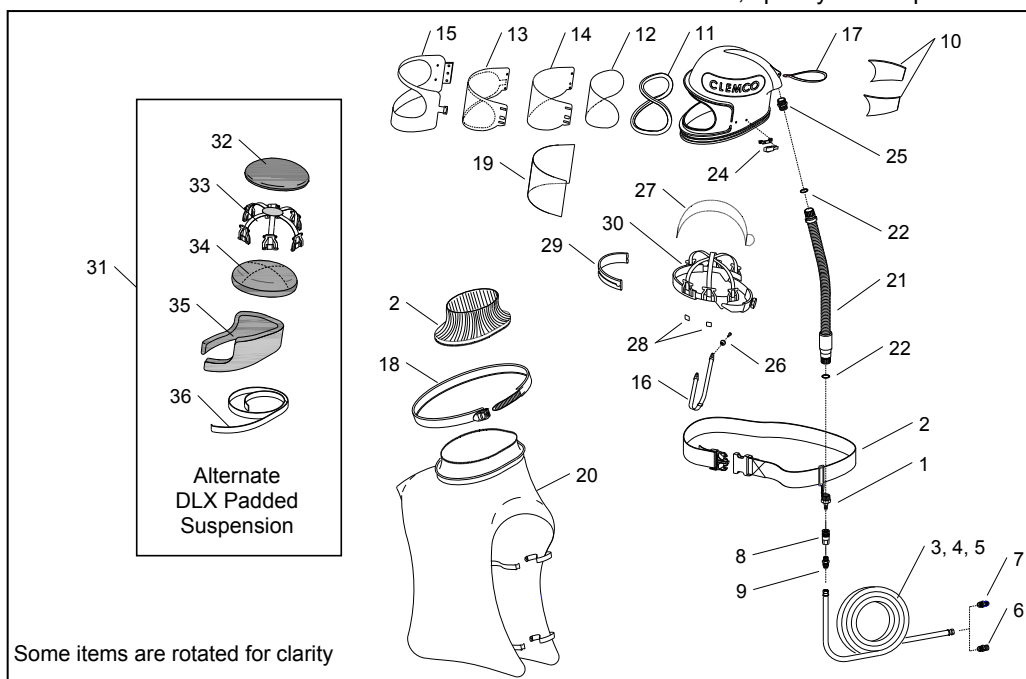
Item No.	Part No.	Description	Qty.
1	HBJ01102	Stem Support Assy	1
2	---	Pipe Lance (Customer to Furnish)	1
3	HBJ01100	Deflection Tip, Tungsten Carbide	1
4	HBJ01101	Body	1
5	HBJ01105	Stem Sleeve, Tungsten Carbide	2
6	HBJ01108	Throat Rod Nut	1
7	HBJ01109	Retaining Snap Ring	1
8	HBJ01111	Knurled Lock Nut	1
9	HBJ01112	Coupling	1
10	HBJ01113	Nozzle, 9/32" orf., Tungsten Carbide	1
11	HBJ01115	Reducer, Tungsten Carbide Lined	1
12	HBJ01162	Throat Rod and Tip Assy.	1
13	HBJ08977	O-Ring	1
14	HBJ01117	Centering Carriage, 1 in. Pipe	2
15	HBJ01118	Centering Carriage, 1 1/4 in. Pipe	2
16	HBJ01119	Centering Carriage, 1 1/2 in. Pipe	2
17	HBJ01120	Centering Carriage, 2 in. Pipe	2
18	HBJ01114	Centering Carriage Set	1





Respiratory Equipment Clemco Apollo Hood (Red)

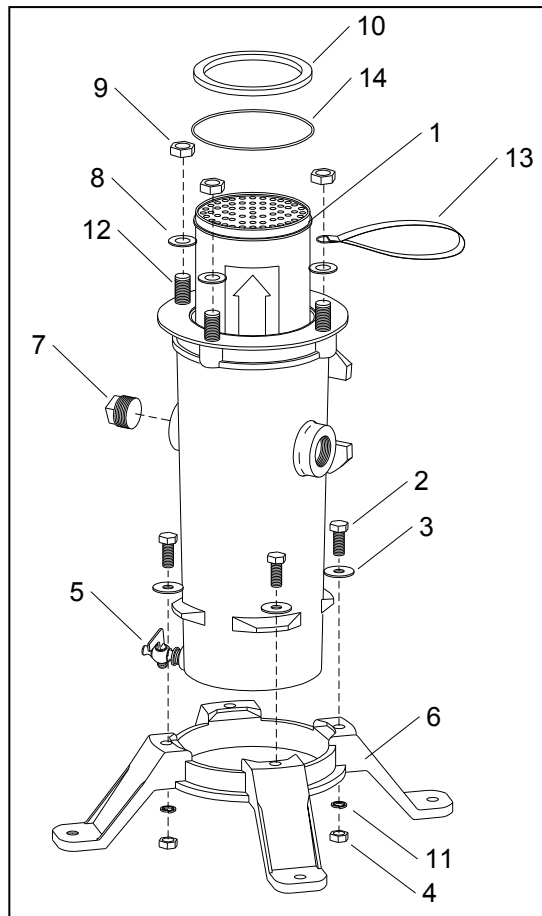
Item	Description	Stock No.			
1.	Constant-flow connector, HP (alternate), without belt	21415	17.	Handle strap	03623
2.	Belt, 2" web with buckle	04430	18.	Cape attachment band	23801
3.	Respirator hose, 3/8" x 25 ft. (alternate), includes items 6 and 7	04397	19.	Outer lens, .015", rectangular package of 25	24005
4.	Respirator hose, 3/8" x 50 ft. (alternate), includes Items 6 and 7	04415	20.	Cape, grey, includes item 23	23818
5.	Respirator hose, 3/8" x 100 ft. (alternate), includes items 6 and 7	04398	21.	Breathing tube assembly w/ (2) item 22 ...	22811
6.	Adaptor, 3/8" hose to 3/8 NPT	00022	22.	O-ring, 7/8" OD, 2 required	22815
7.	Union, 3/8" hose to 3/8" hose	01020	23.	Inner collar	08740
8.	Disconnect, 1/4 NPT female	00025	24.	Latch kit, window frame includes base, screws and nuts	24006
9.	Adaptor, 3/8" hose to 1/4 NPT	01019	25.	Inlet fitting, breathing tube	23804
10.	Acoustical foam kit, both sides Not used with padded suspension	04369	26.	Chin strap holder kit (2 w/ fasteners)	24008
11.	Gasket, window	23819	27.	Partition, air baffle	23811
12.	Inner lens, .040", package of 5	04367	28.	Clips, suspension (pack of 4)	24773
13.	Outer lens, .0075", perf'ed, pack of 25	04361	29.	Sweatband, used with item 30	23817
14.	Intermediate lens, .020", package of 5	24943	30.	Web suspension with sweatband (alternate)	23802
	package of 25	04373	31.	DLX padded suspension kit (alternate) includes items 27 and 32 thru 36	25189
15.	Window frame assembly	24012	32.	Pad, top	25181
16.	Chin strap	04460	33.	Suspension web	25184
			34.	Pad, middle	25182
			35.	Pad, side black & grey fits most head sizes	25183
				black & blue for smaller head sizes	25187
			36.	Hook-fastener tape, 1" adhesive backed, 3-ft. used, specify feet required	25185





CPF 20/80 Particulate Air Filter

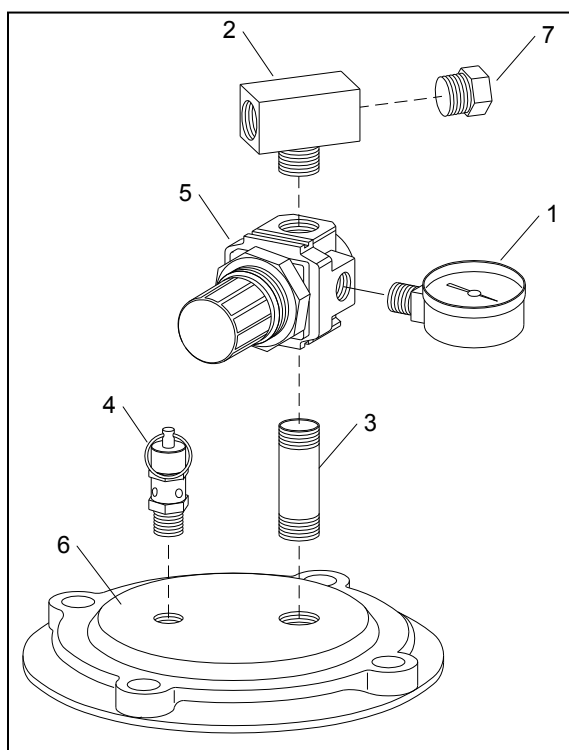
Item	Description	Stock No.
1.	Cartridge, CPF filter	03547
2.	Cap screw, 3/8-NC x 1" hex head	03252
3.	Washer, 1-1/4" OD	03310
4.	Nut, 3/8-NC	03311
5.	Petcock, 1/4"	01993
6.	Mounting bracket	03557
7.	Plug, 1" NPT	03532
8.	Washer, 1/2" SAE flat	03515
9.	Nut, 1/2-NC	03511
10.	Gasket, filter top	03559
11.	Washer, 3/8" lock	03318
12.	Stud, 1/2-NC x 2"	03545
13.	Handle strap	03623
14.	O-ring, cap	03561





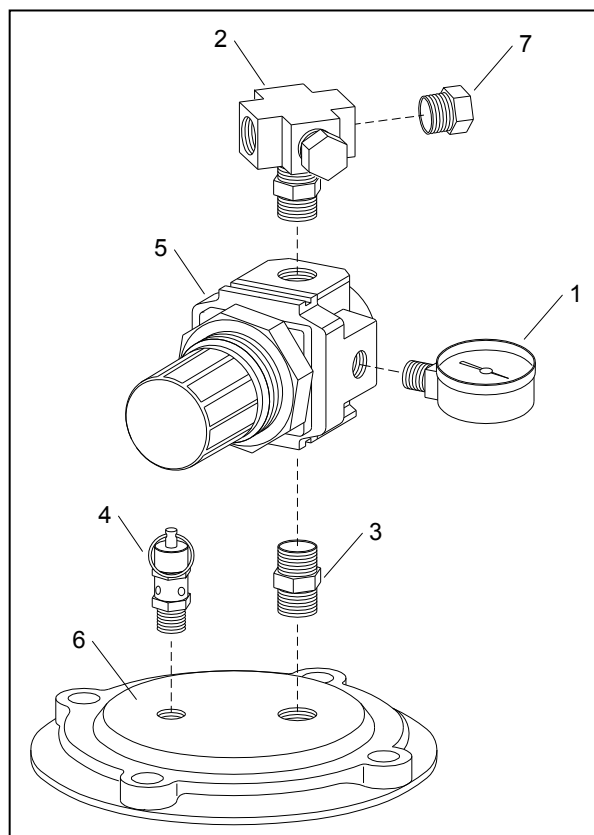
CPF 20 Cap

Item	Description	Stock No.
1.	Pressure gauge	00024
* 2.	Tee, 3/8" NPT male branch	22843
* 3.	Nipple, 3/8" NPT x 2" brass	03720
4.	Relief valve, 1/4" NPT	01909
* 5.	Pressure regulator, less gauge 3/8" NPT small body	03594
6.	Cap, CPF filter	03584
* 7.	Plug, 3/8" NPT brass	03536
(-)	Regulator kit, converts old style regulator to new style, includes items marked * ...	03582



CPF 80 Cap

Item	Description	Stock No.
1.	Pressure gauge	00024
* 2.	Cross manifold, 3/8" NPT	22941
* 3.	Nipple, 3/8" NPT hex	03596
4.	Relief valve, 1/4" NPT	01909
* 5.	Pressure regulator, less gauge 3/8" NPT large body	22939
6.	Cap, CPF filter	03584
* 7.	Plug, 3/8" NPT brass	03536
(-)	Regulator kit, converts CPF-20 to CPF-80 includes items marked *	22937
(-)	Conversion kit, converts old style CPF-80 to new style. Includes items marked*, plus cap, cap o-ring, and handle strap. The kit does not include the relief valve item (4) or gauge item (1) Order separately if needed	23477





Bullard 88VX (Yellow Hood)

88VX Series supplied-air respirators consist of four components: 1.) respirator helmet assembly with breathing tube, 2.) cape, 3.) flow control device, and 4.) air supply hose. There are options for some components to fit customer specifications. All components must be present and properly assembled, including a Bullard air supply hose, to constitute a complete NIOSH approved respirator (Approval No. TC-19C-293, Type C and CE).



CATALOG NUMBER	DESCRIPTION	CATALOG NUMBER	DESCRIPTION
Parts for 88VX Series Respirators			
88VXTG	4-point headband suspension with sizing posts and poly brow pad (25/pkg)	DC5040	DUAL-COOL tube - 1/4" Industrial Interchange (steel) quick disconnect fitting. Order DUAL-COOL vest separately
88VXRT	4-point headband suspension with Flex-Gear ratchet sizing knob and poly brow pad (25/pkg)	Constant Flow	
20NC	Elastic Chin Strap	EVX30	Breathing tube assembly - 1/4" Industrial Interchange (steel) quick-disconnect fitting
88CK	Breathing tube connector kit	EVX35	Breathing tube assembly - 1/2" Industrial Interchange (steel) quick-disconnect fitting
88VXAK	Oval door/Gasket/Latch Kit Assembly	Dual-Cool Vest	
88VXRAK	Rectangular door/Gasket/Latch Kit Assembly	DC70ML	DUAL-COOL vest. Size: M/L. Order DUAL-COOL tube separately.
BFW	Box Front Adapter Kit, complete (for 88 and 88VX Series only)	DC70XLXL	DUAL-COOL vest. Size: XL/XXL. Order DUAL-COOL tube separately.
77GLT	Tempered Glass Lens for BFW	CH60	Connector hose for use with DUAL-COOL
77LG	Box Front Lens Gasket	Replacement Parts for Breathing Tube Assemblies	
G4613	88VXR Window Frame Gasket (rectangular)	88VXBT	Breathing tube only, with threaded hose connectors
G7713	88VXR Window Frame Gasket (oval)	4612	Belt, nylon webbing
88VXUGK	88VX Upgrade Kit: Includes 88VXAK, 99PL, 88VXTG, 46VX	F30	Constant flow control valve 1/4" Industrial Interchange (steel)
Lenses and Mylar Covers			
Lenses for 88VX Series (oval)			
771B	Inner Plastic Lens, .040" thick (25/pkg)	F35	Constant flow control valve, 1/2" Industrial Interchange (steel)
771(.040)	Outer Plastic Lens, .040" thick (200/bx)	F40	Adjustable flow control valve, 1/4" Industrial Interchange (steel)
771(.020)	Outer Plastic Lens, .020" thick (50/pkg)	Air Supply Hose Kits	
Lenses for 88VX Series (rectangular)			
461B	Inner Plastic Lens, .040" thick (200/bx)	V10 Series Hoses (3/8" I.D.) for use with breathing air compressors	
461	Outer Plastic Lens, .040" thick (500/bx)	4696	25-foot Starter hose with 1/4" Industrial Interchange Q.D. coupler and male nipple
461R	Outer Plastic Lens, .015" thick (500/bx)	46913	25-foot Starter hose with 1/4" Schrader Q.D. coupler
771R(.015)	Outer Plastic Lens, .015" thick (50/pkg)	46915	25-foot Starter hose with 1/4" Snap-Tite Q.D. coupler
7714	Clear Mylar Lens Cover, Adhesive-Backed (25/pkg)	5454	25-foot Extension hose
88VXLC	Clear Mylar Lens Cover, Perforated-Edges with pull tab (25/pkg)	5457	50-foot Extension hose
5458	100-foot Extension hose	V20 Series Hoses (1/2" I.D.) for use with Free-Air Pumps	
Capes			
46VX	Tan Nylon Cape - 28" length	V2050ST	50-foot Starter/Extension hose with 1/2" Industrial Interchange Q.D. coupler
13VX	Tan Nylon Cape - 38" length	V20100ST	100-foot Starter/Extension hose with 1/2" Industrial Interchange Q.D. coupler
21VX	"Golden Gate" style - Tan Nylon Cape - 38" length	V5 Series Coiled Hoses for use with breathing air compressors	
21821	Tan Nylon Cape, Golden Gate Style - 38" length	V52530	25' (7.6 m) with 1/4" Industrial Interchange steel (Hansen compatible) fittings
36VX	Hibernia Parka -Tan Nylon Parka with sleeves - 38" length	V55030	50' (15.2 m) with 1/4" Industrial Interchange steel (Hansen compatible) fittings
36XLVX	Hibernia Parka - Tan Nylon Parka with sleeves - 38" length, extra-large	V52531	25' (7.6 m) with 1/4" Schrader steel quick-disconnect fittings
Flow Control Devices (Includes Belt)			
Adjustable Flow			
EVX40	Breathing tube assembly - 1/4" Industrial Interchange (steel) quick-disconnect fitting	V55031	50' (15.2 m) with 1/4" Schrader steel quick-disconnect fittings
AC100030	Air Conditioner - 1/4" Industrial Interchange (steel) quick-disconnect fitting		
Frigitron 2000	Air Conditioner - 1/2" Industrial Interchange (steel) quick-disconnect fitting, (for use with Bullard EDP30 Free-Air pump)		
HC240030	Hot/Cold tube - 1/4" Industrial Interchange (steel) quick-disconnect fitting		



CLEMTEX

Houston Office
 248 McCarty Dr.
 P.O. Box 15214
 Houston, TX 77220-5214
 (713) 672-8251
 Fax (713) 672-6336

Bullard Hood Continued...

CATALOG NUMBER DESCRIPTION

V52532	25' (7.6m) with 1/4" Snap-Tite steel fittings
V55032	50' (15.2 m) with 1/4" Snap-Tite steel fittings
V52533	25' (7.6m) with 1/4" Snap-Tite brass fittings
V55033	50' (15.2 m) with 1/4" Snap-Tite brass fittings
V52533FF	25' (7.6m) with 1/4" Snap-Tite brass fittings
V55033FF	50' (15.2 m) with 1/4" Snap-Tite brass fittings
V52533FS	25' (7.6m) with 1/4" Snap-Tite brass fittings
V55033FS	50' (15.2 m) with 1/4" Snap-Tite brass fittings
V52535BLACK	25' (7.6 m) with 1/2" Industrial Interchange steel (Hansen compatible) fittings
V55035BLACK50'	(15.2 m) with 1/2" Industrial Interchange steel (Hansen compatible) fittings

V5 Series Kink-Free Hoses

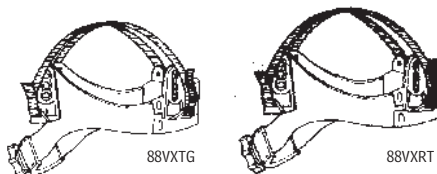
* XXX is designation RED, GRN, BLK, YLW, BLU
 For use with Breathing Air Compressors

Include 3/8" I.D. Nylon coiled hose with 1/4" female quick-disconnect coupler and 1/4" male quick-disconnect nipple.

V5KF2530XXX	25' (7.6 m) with 1/4" Industrial Interchange steel (Hansen compatible) fittings
V5KF5030XXX	50' (15.2 m) with 1/4" Industrial Interchange steel (Hansen compatible) fittings
V5KF2531XXX	25' (7.6 m) with 1/4" Schrader steel quick-disconnect fittings
V5KF5031XXX	50' (15.2 m) with 1/4" Schrader steel quick-disconnect fittings
V5KF2532XXX	25' (7.6m) with 1/4" Snap-Tite steel fittings
V5KF5032XXX	50' (15.2 m) with 1/4" Snap-Tite steel fittings
V5KF2533XXX	25' (7.6m) with 1/4" Snap-Tite steel fittings
V5KF5033XXX	50' (15.2 m) with 1/4" Snap-Tite steel fittings
V5KF2533XXXFF	25' (7.6m) with 1/4" Snap-Tite steel fittings
V5KF5033XXXFF	50' (15.2 m) with 1/4" Snap-Tite steel fittings
V5KF2533XXXFS	25' (7.6m) with 1/4" Snap-Tite steel fittings
V5KF5033XXXFS	50' (15.2 m) with 1/4" Snap-Tite steel fittings
V5KF2535XXX	25' (7.6 m) with 1/2" Industrial Interchange steel (Hansen compatible) fittings
V5KF5035XXX	50' (15.2 m) with 1/2" Industrial Interchange steel (Hansen compatible) fittings



V5 Coiled Hose



88VXTG

88VXRT



20NC

Quick-Disconnect Nipples

1/4" Industrial Interchange

S9841	With 1/4" Female NPT
V17	With 3/8" Female NPT

1/4" Schrader

S19432	With 1/4" Female NPT
S19433	With 3/8" Female NPT

1/4" Snap-Tite

S19442	With 1/4" Female NPT
S17651	With 3/8" Female NPT

Quick-Disconnect Couplers (Shut-off Type)

1/4" Industrial Interchange

V14	With 1/4" Female NPT
V15	With 3/8" Male NPT

1/4" Schrader

V18	With 1/4" Female NPT
-----	----------------------

1/4" Snap-Tite

V19	With 1/4" Female NPT
-----	----------------------

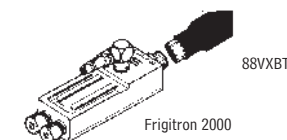
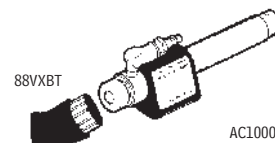
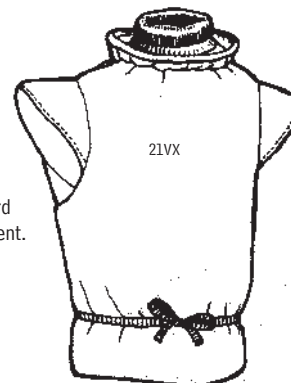
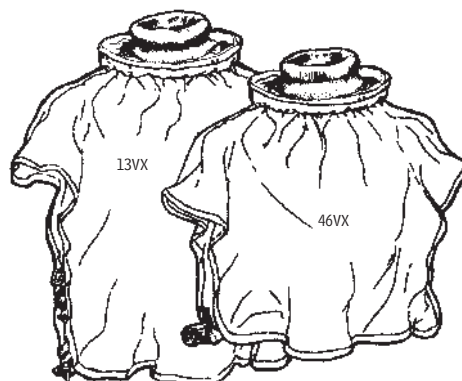
Quick-Disconnect Hose Adapters

V11	Hose-to-hose, 3/8" hose to 3/8" hose
V12	Hose-to-pipe, 3/8" hose to 1/4" pipe
V13	Hose-to-pipe, 3/8" hose to 3/8" pipe

To order replacement parts, contact your local Bullard distributor or the Bullard Customer Service Department.

Bullard

1898 Safety Way
 Cynthia, KY 41031-9303
 Toll Free: 877-BULLARD (285-5273)
 Phone: 859-234-6616
 Facsimile: 859-234-6858



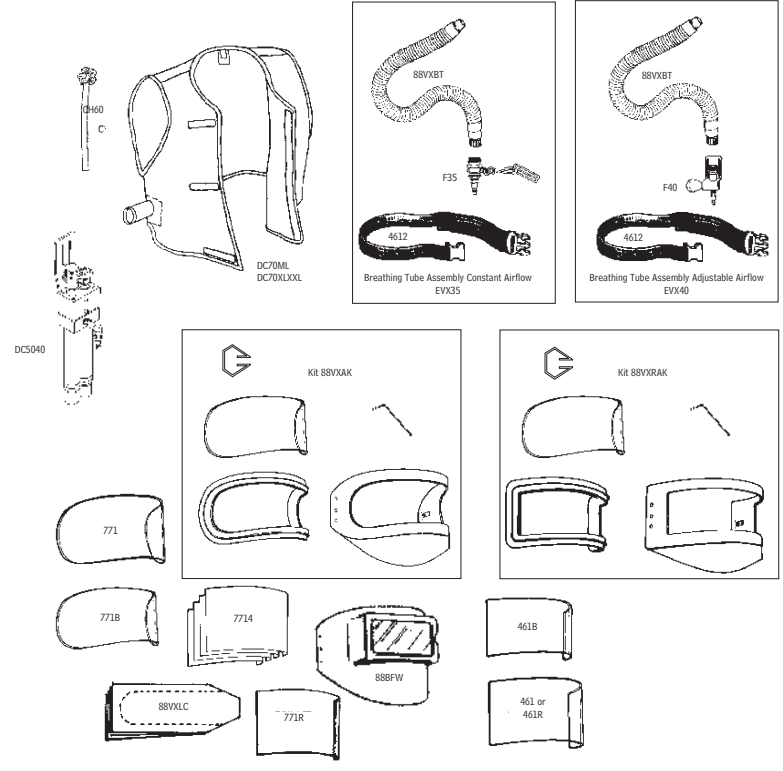
Bullard 88VX Continued...

Other Available Flow Control Assemblies (Without Breathing Tube)

CATALOG NUMBER	DESCRIPTION
Adjustable Flow	
F40B	1/4" Industrial Interchange (brass)
F40S	1/4" Industrial Interchange (stainless steel)
F41	1/4" Schrader
F42	1/4" Snap-Tite (steel)
F43	1/4" Snap-Tite (brass)
F44	1/4" Snap-Tite (stainless steel)
F47	1/4" Cejn
F48	1/4" Bayonet

Constant Flow	
F30B	1/4" Industrial Interchange (brass)
F30S	1/4" Industrial Interchange (stainless steel)
F31	1/4" Schrader
F32	1/4" Snap-Tite (steel)
F33	1/4" Snap-Tite (brass)
F34	1/4" Snap-Tite (stainless steel)
F37	1/4" Cejn
F38	1/4" Bayonet
F35B	1/2" Industrial Interchange (brass)
F35S	1/2" Industrial Interchange (stainless steel)

Adjustable Climate Control Tubes			Coupling Type
Cold Only	Hot/Cold	Dual-Cool	
AC100030B	HC240030B	DC5040B	1/4" Industrial Interchange (brass)
AC100030S	HC240030S	DC5040S	1/4" Industrial Interchange (stainless steel)
AC100031	HC240031	DC5041	1/4" Schrader
AC100032	HC240032	DC5042	1/4" Snap-Tite (steel)
AC100033	HC240033	DC5043	1/4" Snap-Tite (brass)
AC100034	HC240034	DC5044	1/4" Snap-Tite (stainless steel)
AC100037	HC240037	DC5047	1/4" Cejn
AC100038	HC240038	DC5048	1/4" Bayonet





Bullard 41 Series Airline Filter

Ordering Information



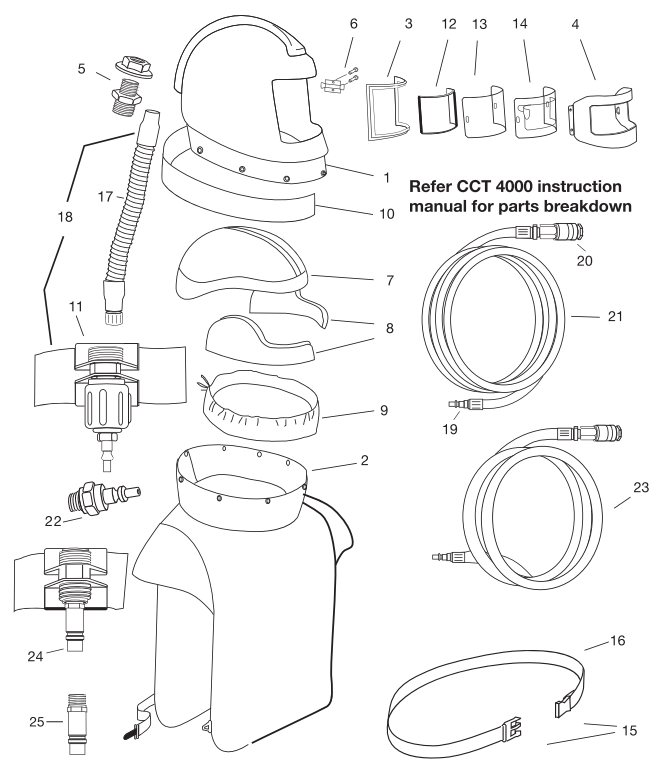
CATALOG NUMBER	DESCRIPTION	CATALOG NUMBER	DESCRIPTION
Bullard Airline Filters		Replacement Parts	
41A	Single-outlet filter. Pressure gauge, relief valve, and pressure regulator not included	41AF	Replacement filter cartridge
41P2	2-outlet filter with pressure gauge, relief valve, pressure regulator, and hose adapter fitting	41P6UPK	6-outlet manifold upgrade (includes manifold, regulator assembly, relief valve, and gauge) for 41P6
41P6	6-outlet filter with pressure gauge, relief valve, pressure regulator, and hose adapter fitting	41P2M	2-outlet manifold assembly (includes manifold with regulator, relief valve and gauge) for 41P2 and 41P2E
41P6WM	6-outlet filter with wall-mount bracket, pressure gauge, relief valve, pressure regulator, and hose adapter fitting.	41PRV	Pressure Relief Valve for 41P2, 41P2E, and 41P6/41P6WM airline filters. Set at 125 psig (8.6 bar).
41P2E	2-outlet filter with pressure gauge, relief valve, pressure regulator, and hose adapter fitting, plus adapters suitable for European threaded connections	41RG	Regulator Gauge for 41P2, 41P2E, and 41P6 airline filters
		41P2R	41P2 regulator and assembly (For use with flat top design only)
		41EAK	European adapter kit for 41P2E containing (1) 1" (25 mm) x 3/4" (19 mm) Pipe Reducing Bushing, (1) 3/8" (7 mm) x 1/4" (6 mm) Reducing Bushing and (2) 1/4" (6 mm) MPT British Thread Adapters.
		41HK	Handle kit, 41 Series (optional)



RPB Nova 2000 (Green Hood)

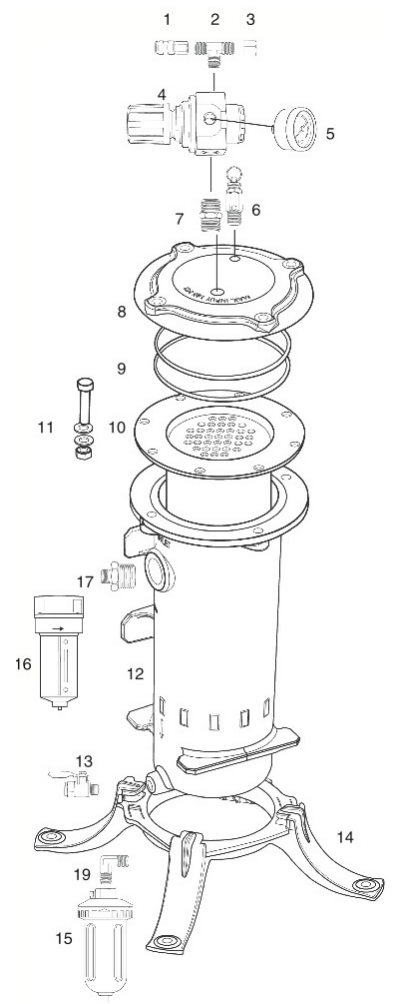
The NOVA 2000 supplied Air Respirator consists of three components: Respirator Hood Assembly, Breathing Tube Assembly, Air Supply Hose. All three components must be present and correctly assembled to constitute the NIOSH approved respirator. (Approval No: TC-19C-363, 19C-422 Type CE)

Item	Description	Part Number
1	Helmet shell	NV 2001
	Nylon cape complete with inner bib	NV 2002
2	Leather cape complete with inner bib	NV 2002L
	Nylon cape extra length	NV 2002XL
3	Window frame gasket	NV 2003
4	Visor with hinge and screws	NV 2004
5	Air Inlet Assembly	NV 2006/7
6	Visor latch and screws	NV 2008
7	Polystyrene helmet liner	Sizes (S,M,L) NV 2009
8	Sidewings	Sizes (S,M,L) NV 2010
	Sidewings for wearers of glasses	Sizes (S,M,L) NV 2010G
9	Inner bib for cape	NV 2012
10	Cape cover band	NV 2013
11	Flow control valve and belt	NV 2016
12	Inner lens pkt 10	NV 2018
13	Outer lens pkt 50	NV 2031
14	Tear off lens pkt 50	NV 2017
15	Buckles	NV 2020
16	Belt with buckles	NV 2022
17	Breathing air tube	NV 2021
18	Breathing tube & flow control assembly	NV 2023
19	Quick Disconnect tail	NV 2024
20	Quick Disconnect coupler	NV 2025
21	Air supply hose 25ft	NV 2028
	Air supply hose 50ft	NV 2029
22	Quick disconnect tail	NV 2032
23	Air supply hose 1/2" 50ft	NV 2035
	Air supply hose 1/2" 100ft	NV 2036
24	Constant flow valve assembly	NV 2015
25	Quick disconnect tail 1/2" thread	NV 2034



RPB Radex Filter

ITEM	DESCRIPTION	PART NO.
1	Quick Disconnect Coupler	04-911
2	3/8" Tee	04-912
3	3/8" Cap	04-913
4	Pressure Regulator	04-914
5	Pressure Gauge	04-915
6	Pressure Relief Valve 125psi	04-916
7	3/8 Hex Nipple	04-917
8	Lid	04-918
9	Oring (set of 2)	04-919
10	Filter Cartridge	APF310C
11	Bolt, Nut Washer set x 4	04-920
12	Body	04-921
13	Drain Tap	04-922
14	Base Mount	04-923
15	Auto Drain Unit	04-924
16	Micro Mist Filter 1/2	04-925
17	1" x 1/2 Reducing Nipple	04-926
18	Main Line Pre Filter	04-927
19	Brass Elbow	04-928





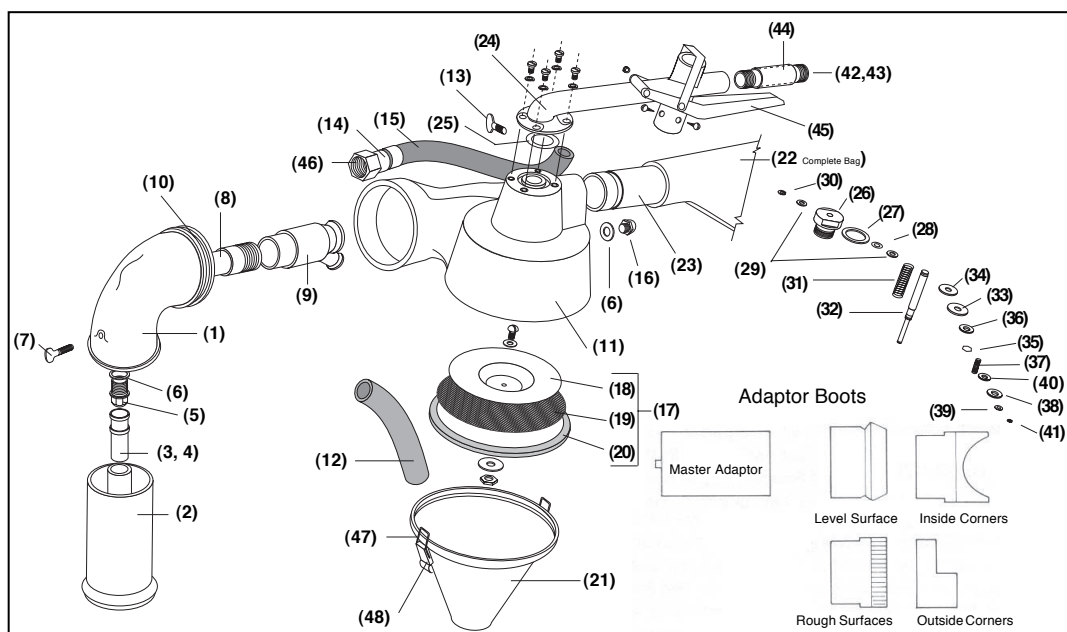
Educt-O-Matic

Item Description	Stock No.
Attachment set (includes all items listed below)	00753
Master adaptor (must be purchased with any of the four adaptors listed below)	00757
Edge attachment (outside corners)	00755
Serrated attachment (rough surfaces)	00756
Angle attachment (inside corners)	00758
Flat lip attachment (smooth surfaces)	00759

19. Screen	See 00778
20. Screen gasket	See 00778
21. Abrasive container	00814
22. Dust bag	00785
23. Exhaust tube includes wire form	00784
24. Valve body	00789
25. O-ring	00786
26. Valve bushing	00792
27. Valve bushing gasket	00793
28. O-ring	00794
29. Washer	00795
30. Retaining ring	00796
31. Spring, 1 1/2" long	00797
32. Valve stem	00798
33. Washer, 13/16" O.D. x 1/8"	00799
34. Washer, brass, .80 O.D. x 1/8"	00800
35. Hex nut, 10-32	03885
36. Washer, brass, 9/16" O.D. x 3/64"	00802
37. Spring, 1-1/4" long	00803
38. Washer, 9/16" O.D. x 5/32"	00804
39. Eyelet, brass	00805
40. Washer, brass, 1/2" O.D. x 1/32"	00806
41. Retaining ring	00807
42. Nipple and grip assy.	00810
43. Pipe nipple, aluminum, 6" long	00808
44. Molded handle grip	00812
45. Valve handle/yoke assy.	00811
46. Swivel nut/insert assy.	00815
47. Container latch hook	00782
48. Container latch	00781
49. Exhaust tube gasket (not shown)	00846

Replacement Parts

(-) Educt-O-Matic complete	00751
1. Blast head	00761
2. Standard adaptor	00762
3. Nozzle, 3/8", tungsten carbide	00754
4. Nozzle, 3/8", steel	00763
5. Blast jet	00765
6. Jet gasket, .675 O.D. x .475 I.D.	00766
7. Thumb screw, 1/4" NC x 1"	03131
8. Blast head nipple, 3/8" x 4"	00767
9. Swivel connector	00768
10. O-ring	00769
11. Main body	00770
12. Abrasive hose	00771
13. Thumb screw, 10-24 x 1/2"	03887
14. Ferrule	00774
15. Air hose assy (includes ferrule)	00775
16. Suction jet	00776
17. Baffle assembly	00778
18. Baffle (plastic only)	See 00778





Paint Guns

Devilbiss MBC-510

(See image on next page)

CHART 1

Nozzle Combinations						
Air Cap Sizes Order From Chart 2	Fluid Tip and Needle Sizes Order From Chart 3					
	AC	D	E	EX	FF	FX
24		P	P			P
30			P	S	P	P
58			P/S	S	P	P
62HD	P					
64HD			P			
69HD		P				
80				S		
704			P		P	
765			P		P	P
777			P		P	
797			P		P	
9000				S		

P - Pressure Feed Combination
S - Suction Feed Combination

CHART 2

Air Caps		
No. on Cap Order	Ref. Nos. (1) Air Cap with Ring	Ref. No. (3) Air Cap Less Ring
24		AV-40-24
30	MB-4039-30	
58	AV-439-58	
62HD	MB-4039-62HD	
64HD	MB-4039-64HD	
69HD	MB-4039-69HD	
80	MB-4039-80	
704		AV-1239-704
765		AV-1239-765
777		31767-777
797		AV-1239-797
9000	AV-440-9000	

CHART 3

Fluid Tips and Needles				
Ref. No. 5 Fluid Tip	Ref. No. 4 Sprayhead Assy.	Ref. No. 11 Fluid Needle	Optional 303 S/S Tip Needle U.H.M.W. Poly.	
			No. on Tip 5	Ref. No. 39
AV-2115-AC	_____	MBC-496-C		
AV-2115-D	P-MBC-430-D	MBC-496-DEX	AV-4915-D	MBC-4397-D
AV-2115-E	P-MBC-430-E	MBC-444-E	AV-4915-E	MBC-4397-E
AV-2115-EX	P-MBC-430-EX	MBC-496-DEX		
AV-2115-FF	P-MBC-430-FF	MBC-444-FF	AV-4915-FF	MBC-4397-FF
AV-2115-FX	P-MBC-430-FX	MBC-444-FX		

PARTS LIST

Ref. No.	Replacement Part No.	Description	Individual Parts Required
1	See Chart 2	Air Cap/Retaining Ring	1
2	MBC-368	Retaining Ring for Ref. No. 3 & 4	1
3	See Chart 2	Air Cap Less Retaining Ring	1
4	See Chart 3	Sprayhead Assembly	1
5	See Chart 3	Fluid Tip	1
•6	AV-1-K5	Gasket Kit (Kit of 5)	1
7	MBC-1225	Baffle	1
8	P-MBC-402	Sprayhead Body	1
•9	A-23-K10	Packing Kit (Kit of 10)	1
10	MB-19-K5	Packing Nut Kit (Kit of 5)	1
11	See Chart 3	Fluid Needle	1
•12	JGA-14-K25	Snap ring Kit (Kit of 25)	1
•13	JGA-15-K25	Washer Kit (Kit of 25)	1
•14	JGS-26-K25	U-Cup Kit (Kit of 25)	1
•15	JGS-431-K25	Air Valve Kit (Kit of 25)	1
•16	MBD-12-K25	Spring Kit (Kit of 25)	1
•17	JGS-72-K10	Gasket Kit (Kit of 10)	1
18	JGS-449-1	Valve Assembly	1
•19	MBC-1226-K10	Gasket Kit (Kit of 10)	1
20	MBC-67	Locking Bolt	1
21	MBC-498-1	Fan Adjustment Valve	1
22	---	Washer	1
•23	---	Packing	1
24	---	Packing Nut	1
25	---	Knob	1
•26	---	Screw	1
27	MBC-415	Cylinder Assembly	1
•28	CV-5-K5	Gasket Kit (Kit of 5)	1
29	---	Cylinder	1
30	MBC-33	Plunger	1
•31	MBC-29-K5	Spring (Kit of 5)	1
32	MBC-39	Screw	1
33	P-MB-51	Air Inlet Adapter 1/4" NPS	1
34	---	Trigger Bearing Stud	1
•35	---	Screw	1
36	JGS-478	Stud and Screw Kit (3 studs, 5 screws in kit)	1
37	JGS-477-1	Trigger, Stud and Screw Kit (Kit includes 1 each)	1
#38	P-MBC-428-3	Spray gun less spray head	1

• A quantity of necessary parts is included in repair kit KK-4058-1 for complete gun repair and should be kept on hand for service convenience.

Ref. No. 38 includes Ref. Nos. 12-37.

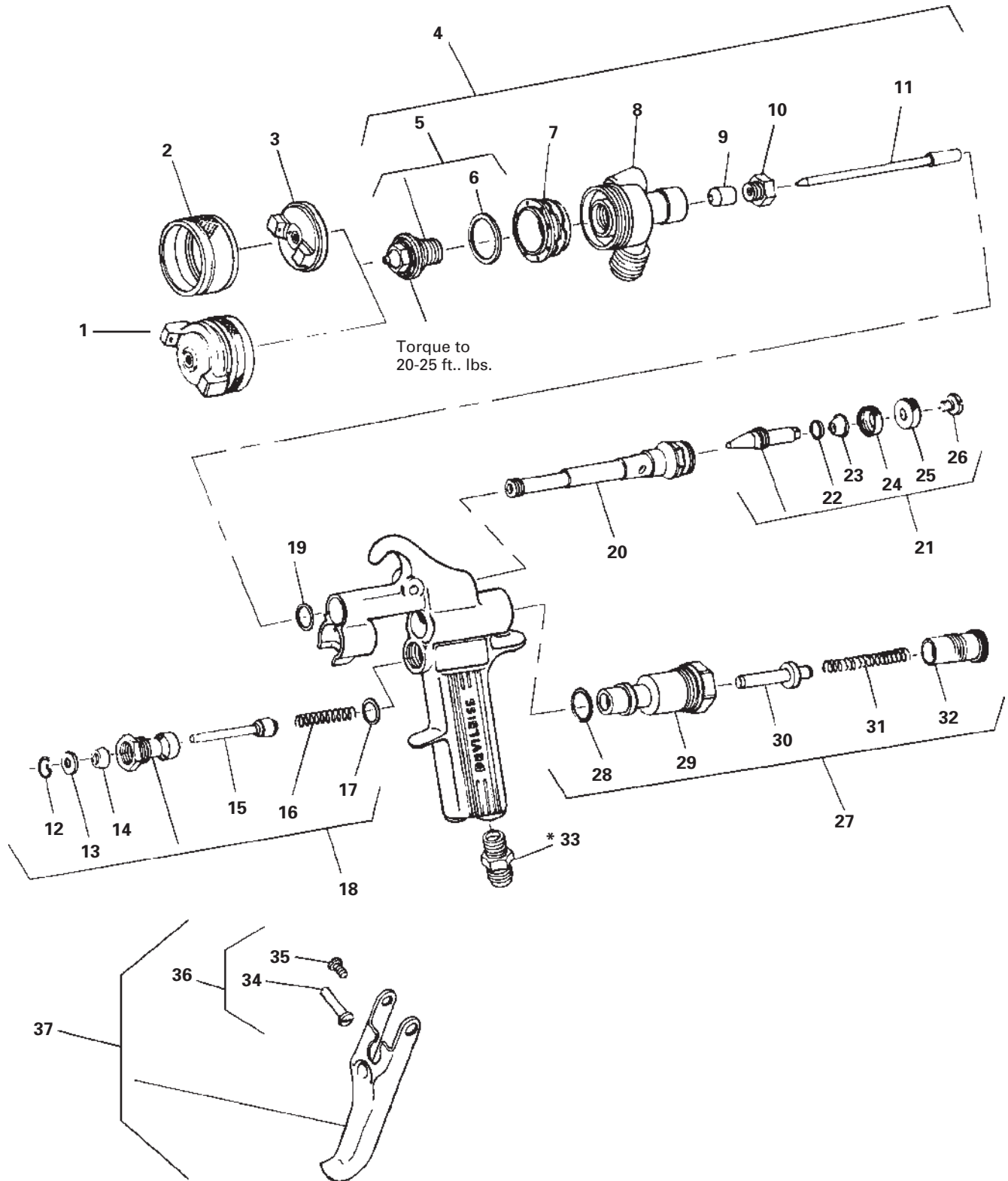
Suffixes -K5 and -K10 designates kits of multiple parts.
Example: AV-1-K5 is a kit of 5 gaskets.



CLEMTEX

Houston Office
248 McCarty Dr.
P.O. Box 15214
Houston, TX 77220-5214
(713) 672-8251
Fax (713) 672-6336

MBC-510 continued...





Devilbiss JGA-510

(continued on next page)

CHART 1

Air Cap Sizes Order From Chart 2	NOZZLE COMBINATIONS								
	Fluid Tip and Needle Size Order From Chart 3								
	AC	D	E	EE	EX	FF	FX	FW	GX
Tip Orifice in./mm	.110 2.8	.080 2.2	.070 1.8	.070 1.8	.070 1.8	.055 1.4	.042 1.1	.063 1.6	.034 .9
24			P			P	P		
30			P		S	S	S	S	
58					S	P	P		P
62HD	P								
64HD		P							
67HD				P					
69HD		P							
80					S	S	S	S	
704			P			P	P		
765			P			P	P		
777			P			P			
797			P			P			
9000					S	S		S	S

P = Pressure Feed Combination
S = Suction Feed Combinations

CHART 2

AIR CAPS		
No. on Cap Order →	Ref. No. (1) Air Cap With Ring	Ref. No. (3) Air Cap Less Ring*
24		AV-40-24
30	MB-4039-30	
58	AV-439-58	
62HD	MB-4039-62HD	
64HD	MB-4039-64HD	
67HD	MB-4039-67HD	
69HD	MB-4039-69HD	
80	MB-4039-80	
704		AV-1239-704
765		AV-1239-765
777		31767-777
797		AV-1239-797
9000	AV-440-9000	

CHART 3

FLUID TIPS AND NEEDLES				
Tip Orifice Size In. / (mm)	If this is No. on tip order →	*Ref. No. 5 Fluid Tip & Gasket	Ref. No. 33 Fluid Needle (No. on needle)	**Ref. No. 36 Matched Tip & Needle Set
400 GR. S.S. TIPS & 303 GR. S.S. NEEDLES				
.110 (2.8)	AV-2115-AC	AV-650-AC	JGA-402-C	JGA-4040-AC
.086 (2.2)	AV-2115-D	AV-650-D	JGA-402-DEX	JGA-4040-D
.070 (1.8)	AV-2115-E	AV-650-E	JGA-402-E	JGA-4040-E
.070 (1.8)	AV-2115-EX	AV-650-EX	JGA-402-DEX	JGA-4040-EX
.055 (1.4)	AV-2115-FF	AV-650-FF	JGA-402-FF	JGA-4040-FF
.042 (1.1)	AV-2115-FX	AV-650-FX	JGA-402-FX	JGA-4040-FX
.063 (1.6)	AV-2115-FW	AV-650-FW	JGA-402-FF	JGA-4040-FW
.034 (.9)	AV-2115-GX	---	---	JGA-4040-GX
OPTIONAL 300 GR. S.S. W/ U.H.M.W. POLYETHYLENE NEEDLE SEAT				
.086 (2.2)	AV-4915-D	---	---	JGA-4056-D
.070 (1.8)	AV-4915-E	---	---	JGA-4056-E
.055 (1.4)	AV-4915-FF	---	---	JGA-4056-FF
.042 (1.1)	AV-4915-FX	---	---	JGA-4056-FX
.028 (.8)	AV-4915-G	---	---	JGA-4056-G
OPTIONAL CARBOLOY TIPS & NEEDLES				
.086 (2.2)	AV-1415-D	AV-617-D	JGA-409-D	---
.070 (1.8)	AV-1415-EE	AV-617-EE	JGA-409-DEEE	---
.055 (1.4)	AV-1415-FF	AV-617-FF	JGA-409-FF	---

*MBC-368 Retaining Ring (sold separately) is required to mount Air Cap to Gun.

* AV-1 copper gasket included — DO NOT use with JGA-510 gun
** Matched tip & needle sets are recommended to assure leak-free operation



JGA-510 continued...

Parts List (see image on next page)

Ref. No.	Replacement Part No.	Description	Individual Parts Required
1	See Chart 2	Air Cap/Retaining Ring	1
2	MBC-368	Retaining Ring	1
3	See Chart 2	Air Cap Less Retaining Ring	1
4	See Chart 3	Fluid Tip	1
*5	GTI-33-K5	Seal Kit (Kit of 5)	1
6	GTI-425	Baffle Assembly	1
7	MSV-3-K10	Fluid Inlet Gasket (Kit of 10) Teflon (blue)	1
8	---	Lock Nut	1
9	---	Fluid Inlet Adapter	1
10	JGA-4044	Fluid Inlet and Nut Kit	1
*11	JGS-72-K10	Gasket Kit (Kit of 10) (Teflon)	2
*12	MBD-12-K25	Spring Kit (Kit of 25)	1
*13	JGS-431-K25	Air Valve Kit (Kit of 25)	1
*14	JGS-26-K25	U Cup Seal Kit (Kit of 25)	1
*15	JGA-15-K25	Washer Kit (Kit of 25)	1
*16	JGA-14-K25	Snap Ring Kit (Kit of 25)	1
17	JGS-449-1	Air Valve Assembly	1
*18	JGV-463-K3	Packing Kit (Kit of 3)	1
19	34411-122-K10	Packing Nut Kit (Kit of 10)	1
*20	---	Screw	1
21	JGS-478	Stud and Screw Kit (Kit includes 3 studs and 5 screws)	1
22	JGS-477-1	Trigger, Stud and Screw Kit (Kit includes 1 each)	1
23	JGA-132	Plug	1
24	P-MB-51	Nipple	1
25	JGA-497-1	Fan Adjustment Assembly	1
*26	---	Retaining Ring	1
*27	SSG-8069-K25	O-Ring (Viton) (Kit of 25)	1
28	JGS-16	Adjusting Screw	1
*29	---	Spring Pad (Included with # 30 and 32)	1
*30	MBD-19-K10	Spring Kit (Kit of 10)	1
31	---	Bushing	1
32	JGA-4041	Bushing, Spring Pad and Knob Kit	1
33	See Chart 3	Fluid Needle	1
34	---	Gun Body	1
#35	See Chart 3	Fluid Tip and Needle Set (Not shown)	1

- * A quantity of necessary parts is included in Major Repair Kit ■KK-4987-2 for complete gun repair and should be kept on hand for service convenience.
 - A quantity of necessary parts is included in Minor Repair Kit KK-5034 for gun repair.
 - # Ref. No. 35 includes Ref. Nos. 4 and 33. AV-1 copper gasket also included but not used with JGA-510 gun.
- Suffixes - K10 designates kits of multiple parts. (Example) JGS-72-K10 is a kit of 10 gaskets.

■ Government NSN No. 4940-01-046-9919 = KK-4987-2.

GTI-33 Baffle Seal Replacement (5)

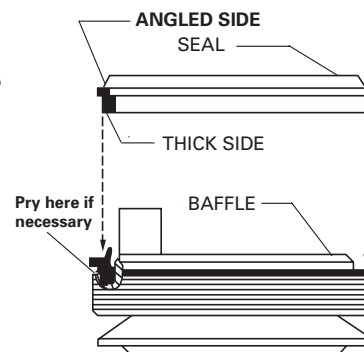
1. Remove fluid tip (4).
2. Remove baffle (6).
3. Remove seal (5) from baffle.
4. Assemble seal to baffle with **angled side up** as shown at right.
5. Install baffle on gun.
6. Install fluid tip (4) and tighten to 12-15 ft.-lbs.

NOTE

The seal should be a tight fit on the baffle. If it is a loose fit on the baffle, assure that it is assembled with the angled side up.

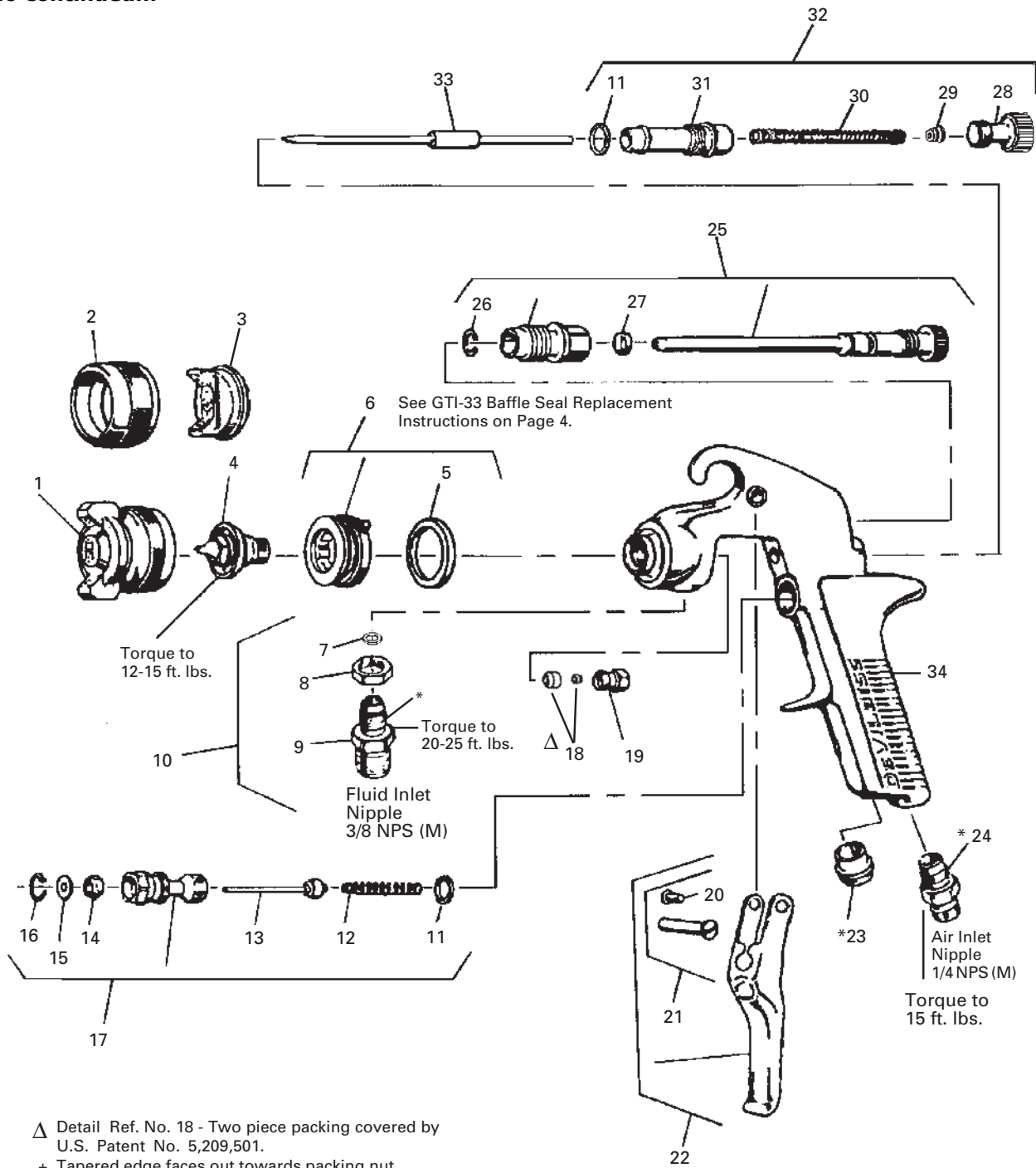
NOTE

The seal is designed to be a tight fit on the baffle. The seal should be able to be removed using your fingers. If you are unable to remove the seal using your fingers, insert a small screwdriver between the outer lip and the back of the baffle and pry the seal off.

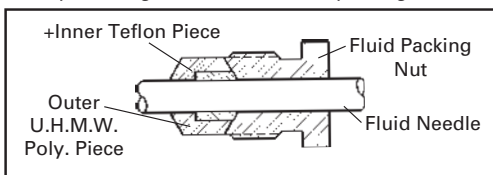




JGA-510 continued...



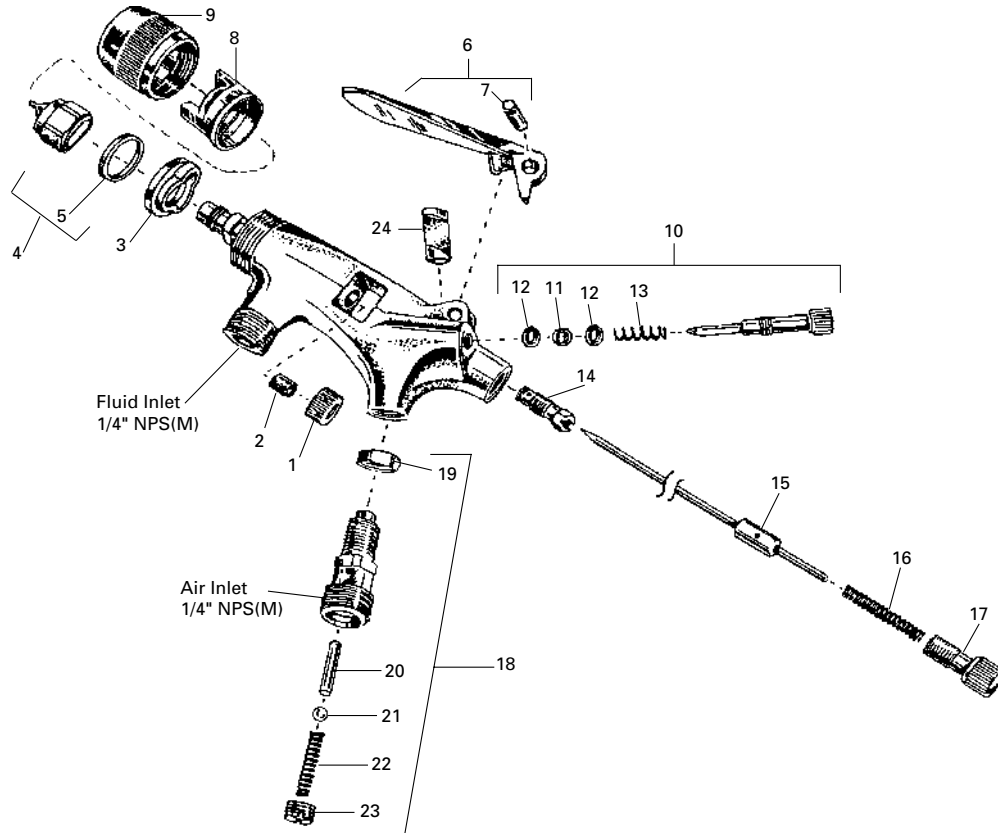
Δ Detail Ref. No. 18 - Two piece packing covered by U.S. Patent No. 5,209,501.
+ Tapered edge faces out towards packing nut.



*Apply QH-130 (Loctite #242 med. strength blue) sealing compound on threads.



Devilbiss EGA-503



PARTS LIST

Ref. No.	Replacement Part No.	Description	Individual Parts Req.
1	EGA-4	Packing Nut	1
■ 2	38273-136-K5	Fluid Needle Packing (Kit of 5)	1
3	EGA-7	Baffle	1
4	EGA-4000-F	Tip, Needle & Gasket (includes 4, 5, 15)	1
■ 5	EGA-59-K5	Gasket (Kit of 5)	1
6	EGA-443	Trigger and Stud Assy.	1
■ 7	AG-3-1-K5	Trigger Bearing Stud (Kit of 5)	1
8	EGA-40-390	Air Cap	1
9	EGA-11	Retaining Ring	1
10	EGA-454	Fan Adjusting Assembly	1
■ 11	SSG-8205-K10	O-Ring (Kit of 10)	1
■ 12	AG-26-K10	Washer (Kit of 10)	2
■ 13	---	Spring	1
14	EGA-3	Packing Gland	1
15	---	Fluid Needle (included with Item 4)	1
■ 16	AG-7-K5	Needle Spring Kit (Kit of 5)	1
17	AG-16	Fluid Needle Adjusting Screw	1
18	EGA-441	Air Valve Assy.	1
19	AG-46-K3	Lock Nut (Kit of 3)	1
■ 20	EGA-9-K5	Stem (Kit of 5)	1
■ 21	SST-3008-K5	Ball (Kit of 5)	1
■ 22	C-104-K5	Spring (Kit of 5)	1
23	GD-36-K5	Spring Retainer (Kit of 5)	1
■ 24	EGA-5-K6	Air Valve Plunger (Kit of 6)	1

■ A quantity of necessary parts is included in Gun Repair Kit KK-5044. Government NSN No. 4940-01-182-6975 = KK-5044. Suffixes -K3, -K5, etc. designates kits of multiple parts. Example: 38273-136-K5 is a kit of (5) packings.



Binks 2100

NOZZLE SELECTION CHART

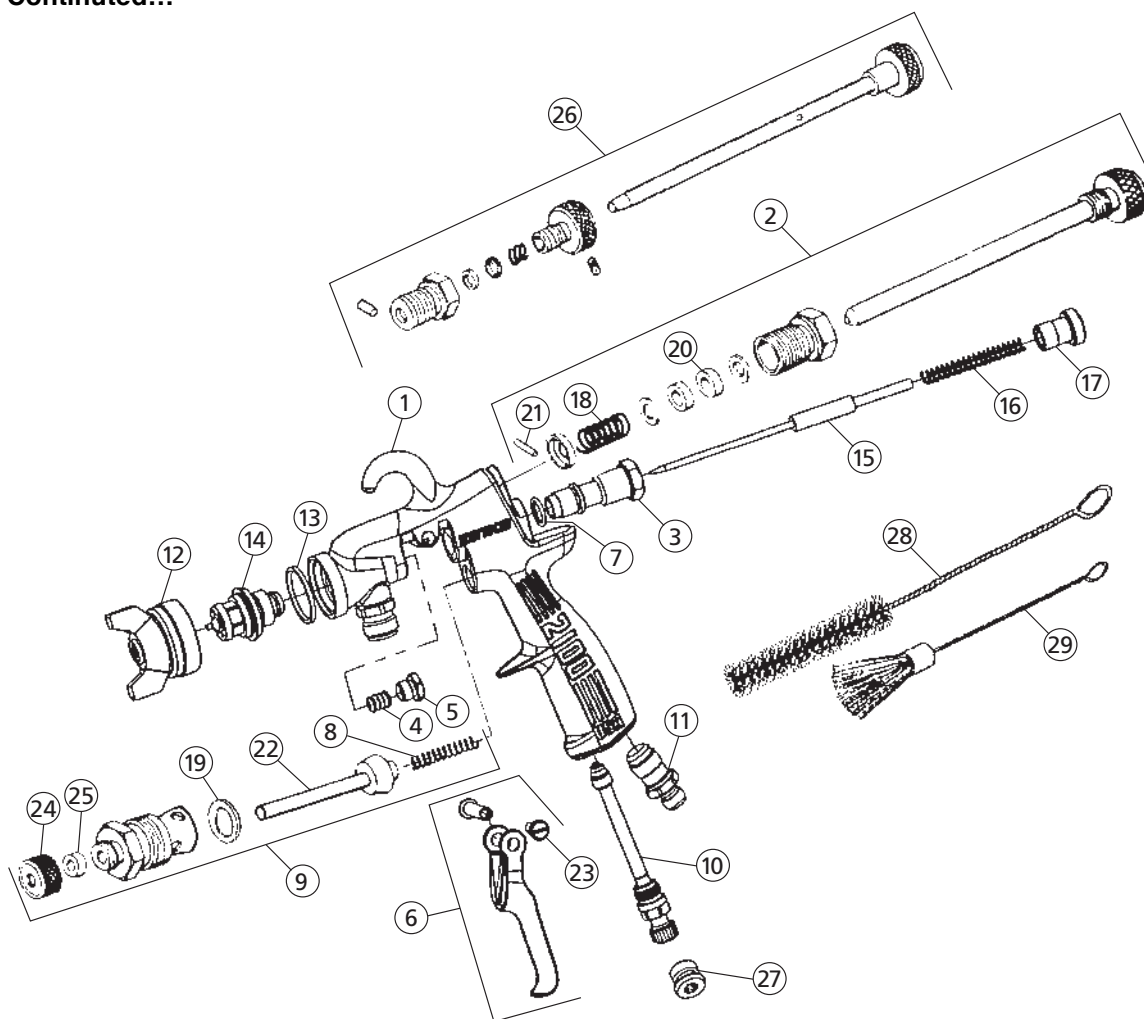
TYPE OF FLUID TO BE SPRAYED	FLUID NOZZLE	AIR NOZZLE	TYPE *	CFM AT			MAX. PAT. (inches) AT 8 in.	FLUID Needle No.★
				30 PSI	50 PSI	70 PSI		
VERY THIN 14-16 Sec.—No. 2 Zahn Wash Primers, Dyes, Stains, Solvents, Water, Inks	63SS	63P	PE	4.5	7.5	10.0	5.0	563
	63ASS	63P	PE	5.1	8.7	12.2	11.0	563A
	63BSS	63PB	PE	9.0	14.3	20.0	14.0	563A
	66SS	66S	SE	3.4	5.0		9.0	565
	66SS	66SD	SE	7.9	12.1		10.5	565
	66SS	66SK	SE	11.0	15.2	19.5	13.0	565
	63BSS	200	PI	3.1	5.2	6.4	12.0	563A
VERY THIN TO MEDIUM 14-30 Secs. — No. 2 Zahn NOTE: 21MD-1 AND 21MD-2 AIR CAPS CAN SPRAY WITH PRESSURE SET-UPS PRODUCING SPRAY PATTERS APPROX. 12" WIDE.	66SS	21MD-1	SE	12.0	17.3	23.0	11.0	565
	66SS	21MD-2	SE	15.2	22.2	29.6	11.0	565
	67SS	21MD-2	SE	12.5	18.3	24.4	13.0	567
	63BSS	21MD-3	PE	11.6	16.6	22.2	16.0	563A
THIN 16-20 Secs. — No. 2 Zahn Sealers, Primers, Lacquers, Inks, Lubricants Zinc Chromates, Acrylics	63ASS	63P	PE	5.1	8.7	12.2	11.0	563A
	66SS	66SK	SE	11.0	15.2	19.5	13.0	565
	63BSS	200	PI	3.1	5.2	6.4	12.0	563A
	63CSS		PI	3.9	5.5	7.4	9.0	563A
MEDIUM 19-30 Secs. — No. 2 Zahn Lacquers, Syn. Enamels Varnishes, Shellacs, Fillers, Primers, Epoxies, Urethanes Lubricants, Wax Emulsions	63BSS	63PB	PE	9.0	14.3	20.0	14.0	563A
	63CSS	63PR	PE	9.5	15.5	19.5	18.0	563A
	66SS	66SD	SE	7.9	12.0		11.0	565
	66SS	66SK	SE	11.0	15.2	19.5	13.0	565
	63CSS	200	PI	3.1	5.2	6.4	12.0	563A
	66SS		PI	3.9	5.5	7.4	9.0	565
HIGH SOLIDS Enamels	65SS	63PR	PE	9.5	15.5	19.5	18.0	565
HEAVY (CREAM-LIKE) Over 28 Secs. — No. 4 Ford House Paint, Wall Paint (Oil, Latex), Block Sealers, Mill Whites, Vinyls, Acrylics, Epoxies, Gel Coats	67SS	67PB	PE	9.5	14.9	19.5	12.0	567
	68SS	68PB	PE	9.5	14.1	19.1	12.0	568
	67SS	206	PI	6.0	9.5	13.0	15.0	567
	68SS	201	PI	4.6	6.8	9.1	11.0	568
VERY HEAVY Unaggregated, Block Fillers, Textured Coatings, Fire Retardants, Road Marking Paint, Bitumastics, Cellular Plastisols, Underbody, Roof Coatings	68SS	68PB	PE	9.5	14.1	19.1	12.0	568
	68SS	206	PI	6.2	9.8	13.2	15.0	568
	59ASS	242	PI	4.1	6.0	8.2	6.0	559
	59ASS	244	PI	7.8	11.5	15.2	12.0	559
	59BSS	250	PI	7.3	11.0	14.7	RD	559
	59BSS	252	PI	7.8	11.5	15.2	6.0	559
	59CSS	262	PI	7.3	11.0	14.7	6.0	559
ADHESIVES Waterbase White Vinyl Glue Solvent Base Neoprenes (Contact Cements)	63CSS	63PB	PE	9.0	14.3	20.0	14.0	563A
	66SS	63PR	PE	9.5	15.5	19.5	15.0	565
	67SS	67PB	PE	9.5	14.1	19.1	12.0	567
	63SS	66SD	PE	7.9	12.1	16.2	4.0	563
	63ASS	66SD	PE	7.9	12.1	16.2	7.0	563A
	63BSS	66SD-3	PE	7.9	12.1	16.2	4.0	563A
	66SS	66SD-3	PE	9.5	14.2	19.0	10.0	565
	66SS	66SDJG	PE	10.4			8.0-9.0	565
	66SS	66R	PE/SE		4.2		RD	565
	66SS	66SDJG	PE	10.4			8.0-9.0	565
	L6SS	63PH-1	PE	9.5	14.2	19.0	18.0	565
	L3BSS	63PH-1	PE	9.5	14.2	19.0	18.0	563A
CERAMICS & SIMILAR ABRASIVE MATERIALS Glazes, Engobes Porcelain Enamel	63CVT	66PH	PE	11.5	16.4	22.0	13.0	563CVT
	64VT	64PA	PE	12.1	15.0	21.0	13.0	564VT
	67VT	67PD	PE	10.0	15.0	20.0	15.0	567VT
	68VT	68PB	PE	9.5	14.1	19.1	12.0	568VT
CONCRETE CURING COMPOUNDS	66SS	200	PI	3.1	5.2	6.4	15.0	565
	67SS	206	PI	6.0	9.5	13.0	18.0	567
	68SS	206	PI	6.2	9.8	13.2	20.0	568
MULTICOLOR PAINTS	66SS	200	PI	3.1	5.2		12.0	565
	67SS	206	PI	6.0	9.5		15.0	567
	66SS	R3	PI		4.2		FAN	565
	66SS	R8	PI		4.2		FAN	565
TEFLONS	63ASS	63PB	PE	9.0	14.3	20.0	10.0	563A
	63BSS	63PR	PE	9.5	15.5	19.5	15.0	563A
	66SS	66SD	SE	7.9	12.1		7.0	565
HAMMERS	63CSS	63PB	PE	9.0	14.3		14.0	563A
	66SS	63PB	PE	9.0	14.3		14.0	565
	66SS	66SD	SE	7.9	12.1		7.0	565
WRINKLE ENAMELS	63CSS	63PB	PE	9.0	14.3	20.0	10.0	563A
	66SS	63PB	PE	9.0	14.3	20.0	10.0	565
ZINC RICH COATINGS	67VT	67PB	PE	9.5	14.1	19.1	12.0	567VT

FLUID NOZZLE ORIFICE SIZES

59ASS	59BSS	59CSS	63SS	63ASS	63BSS	63CSS	63CVT	64VT	65SS	66SS	67SS	67VT	68SS	68VT	794
.171	.218	.281	.028	.040	.046	.052	.052	.064	.059	.070	.086	.086	.110	.110	.040



Binks 2100 Continued...



PARTS LIST

When ordering, please specify Part No.

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	—	2100 GUN BODY	1	16	54-1347-5	SPRING	1
2	54-3347	SIDE PORT CONTROL ASSEMBLY	1	17	54-1007	CONTROL SCREW	1
3	54-1013	MATERIAL BODY	1	18	54-304-5	SPRING	1
4	2-28-5	TEFLON PACKING	1	19	20-3757+	O-RING	1
5	56-164	PACKING NUT	1	20	54-738-5	PACKING	1
6	54-5458	2100 TRIGGER KIT	1	21	54-1014-5	PIN	1
7	20-5285-5	O-RING VITON	1	22	54-1025+	VALVE STEM ASSEMBLY	1
8	54-750-5	SPRING	1	23	82-126-5	SCREW	1
9	54-1236	AIR VALVE ASSEMBLY	1	24	82-135-5	NUT	1
10	SGK-457	AIR ADJUSTMENT VALVE	1	25	82-158-5	PACKING	1
11	54-768	AIR CONNECTION	1	26	54-1780*	QUICK CHANGE SIDEPORT CONTROL..	1
12	*SEE FOOTNOTE	AIR NOZZLE	1		(OPTIONAL)		
13	54-918-5	GASKET	1	27	JGA-132*	PLUG (OPTIONAL)	1
14	*SEE FOOTNOTE	FLUID NOZZLE	1	28	82-469	ROUND BRUSH	1
15	*SEE FOOTNOTE	FLUID NEEDLE	1	29	OMX-88	FLAT BRUSH	1

○ Available only as 5-Pack.

+ Indicates parts in 6-229 Repair Kit.

* Alternate needle packing (optional) 54-747-5.

• Accessory item.

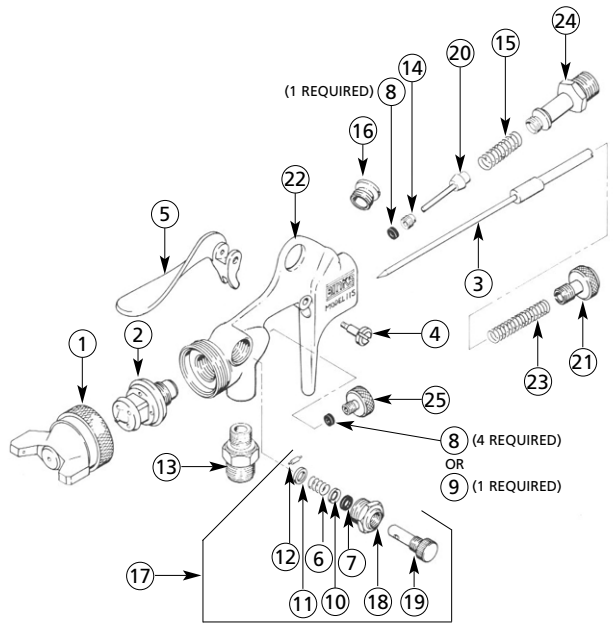
* Be sure to specify number stamped on air nozzle and fluid nozzle, or see Nozzle Selection Chart.

** Be sure to specify number stamped on needle valve stem and spray gun model when ordering.

Binks 115

TYPE OF FLUID TO BE SPRAYED	FLUID x AIR NOZZLES	TYPE	CFM @30 PSI	CFM @50 PSI	CFM @70 PSI	PATTERN AT 8"	NEEDLE	FLUID NOZZLE ORIFICE
VERY THIN								
14-16 SECS—NO.2 ZAHN	77SS X 77P	PE	4.2	6.8	9.3	9"	77SS	.052
WASH PRIMERS, DYES, CLEANING FLUIDS, STAINS, WATER INKS	78SS X 78S	SE	4.2	6.9		8"	78SS	.070
	78SS X 78SD	SE	2.8	4.0		7"	78SS	.070
	77SS X 3/4	SE	2.9	4.6		8"	77SS	.052
THIN								
16-20 SECS—NO. 2 ZAHN SEALERS, PRIMERS, LACQUERS	77SS X 77P	PE	4.2	6.8	9.3	9"	77SS	.052
	78SS X 78P	PE	4.8	7.0	9.4	10"	78SS	.070
	78SS X 78S	SE	4.2	6.9		8"	78SS	.070
	78SS X 78SD	SE	2.8	4.0		7"	78SS	.070
MEDIUM								
19-30 SECS—NO.2 ZAHN LACQUERS, PRIMERS, VARNISHES, SYN. ENAMELS, WALL PAINTS, HOUSE PAINTS	77SS X 77P	PE	4.2	6.8	9.3	9"	77S	.052
	78SS X 78P	PE	4.8	7.0	9.4	10"	78SS	.070
	78SS X 78S	SE	4.2	6.8		8"	78SS	.070

5



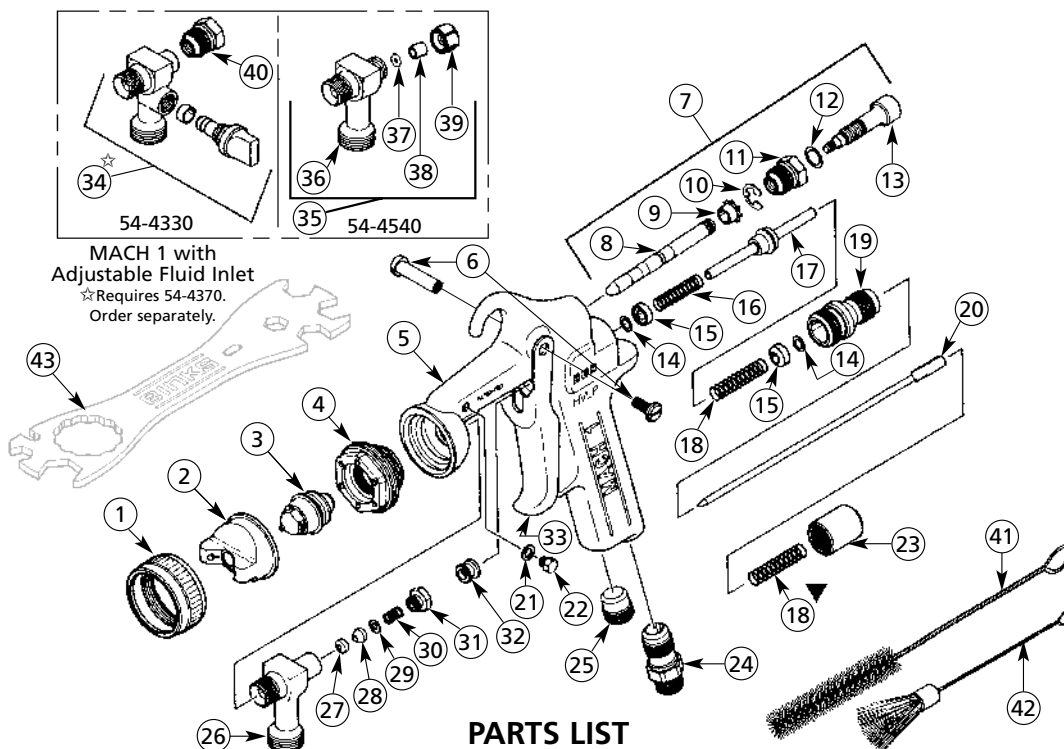
PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	*	AIR NOZZLE	1	15	55-826*	SPRING	1
2	*	FLUID NOZZLE	1	16	55-827	AIR VALVE CAP	1
3	*	FLUID NEEDLE	1	17	55-828	SIDE PORT CONTROL ASS'Y	1
4	55-422	SCREW, Trigger	1	18	—	SIDE PORT CONTROL BODY	1
5	55-434	TRIGGER ASSEMBLY	1	19	—	VALVE STEM	1
6	55-539*	SPRING	1	20	55-874*	AIR VALVE STEM ASSEMBLY	1
7	55-541*	LEATHER PACKING	1	21	55-875	FLUID CONTROL SCREW	1
8	55-548*	PACKING, Standard, Leather	5	22	—	BODY	1
9	55-560	PACKING, Optional, Teflon	1	23	55-881	SPRING	1
10	55-634	PACKING RING	1	24	55-885	AIR CONNECTION	1
11	—	SPRING RING	1	25	55-898	FLUID PACKING NUT	1
12	—	PIN	1	26	54-3871	GUNNERS MATE (NOT SHOWN)	1
13	57-126	AIR CONNECTION	1	27	54-4133	BRUSH (NOT SHOWN)	1
14	55-825	VALVE NUT	1	28	82-221	BRUSH (NOT SHOWN)	1

* Also available in 6-222 Repair Kit. Please order separately.



Binks Mach 1



MACH 1 with Adjustable Fluid Inlet
 ☆Requires 54-4370.
 Order separately.

PARTS LIST

(When ordering, please specify Part No.)

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	54-3531□	RETAINING RING (Metal)	1	25	54-3504	PLUG	1
2	*	AIR NOZZLE	1	26	54-3533	FLUID INLET (Stainless Steel)	1
3	*	FLUID NOZZLE	1	27	54-4264▲◆◆	GLAND ADAPTER	
4	54-3543	HEAD INSERT	1	28	54-4265▲◆◆	NEEDLE SEAL	
5	54-3922●	GUN BODY ASSEMBLY		29	54-4266▲◆◆	SEAL BACKUP	
6	54-3919	TRIGGER STUD & SCREW KIT	1	30	54-4267▲◆◆★	SPRING	
7	54-3946	SIDE PORT CONTROL ASSEMBLY #6.....	1	31	54-4263▲◆◆	PACKING NUT	
8	54-3956★	CONTROL STEM.....	1	32	54-3513	VALVE SPINDLE CAP	1
9	54-3917★	GUIDE BUSHING	1	33	54-3547	TRIGGER	1
10	54-3511★	RETAINING RING	1	34	54-4330☆	ADJUSTABLE FLUID INLET (Optional) Assembly for MACH 1 w/Adj. Fluid Inlet	
11	54-4218★	CONTROL BODY	1	35	54-4540†	VITREOUS FLUID INLET ASSEMBLY.... (Optional)	1
12	20-6160	O-RING	1	36	54-4541†★	VITREOUS FLUID INLET (Optional)	1
13	54-4217★	CONTROL SCREW	1	37	20-2227-5○†◆★	O-RING (Buna) (Optional).....	1
14	20-4615-5○	O-RING (Teflon)	2	38	54-4531†◆★	PACKING SPACER (Optional).....	1
15	54-3515	SEAL RETAINER	2	39	54-4542†★	NUT ASSEMBLY (Optional)	1
16	54-3520◆	SPRING (Yellow)	1	40	54-4370	SEAL CARTRIDGE ASSEMBLY for Adjustable Fluid Inlet (Not Included)	
17	54-3512◆	SPINDLE ASSEMBLY.....	1	41	82-469	GUN BRUSH	1
18	54-3518▼◆	SPRING (Blue)	2	42	82-221	CLEANING BRUSH	1
19	54-3541	HOUSING	1	43	54-3918	WRENCH (Optional, Not Included)	
20	*■	FLUID NEEDLE (Stainless Steel)	1		54-3871	GUNNERS MATE (Not Shown)	1
21	54-3925★	GASKET	1				
22	54-3928★	PLUG	1				
23	54-3606	FLUID CONTROL KNOB.....	1				
24	54-768	AIR CONNECTION	1				

* Select from Air Fluid Nozzle chart, page 6.
 ** For special purpose nozzles see chart, page 6.
 ▼ Optional 54-4427★ Heavy Duty Spring

†MACH 1V with vitreous set-up. Optional. Order 54-4540.
 □ Optional 54-4318 Plastic Retaining Ring



Mach 1 Continued...

**FLUID NOZZLES
STANDARD FLUID NOZZLES**

FLUID	FLUID NOZZLE NO.	APPLICABLE AIR NOZZLE	FLUID NEEDLE
ULTRA LIGHT / Reduced Flow	89 (.020" Dia.) 0.5 mm	90P*** 95P, 97P, 92P*, 95AP, 97AP** 93P*, 94P	SEE NOTE 54-3941
VERY LIGHT / Reduced Flow	90 (.030" Dia.) 0.8 mm		
LIGHT: less than 15 to 20 seconds in a Zahn 2 Cup, e.g., stains, varnishes, thin lacquers, automotive refinishing fluids.	91 (.040" Dia.) 1.0 mm 92 (.046" Dia.) 1.2 mm		
MEDIUM: 20 to 60 seconds in a ZAHN 2 Cup, e.g., general industrial coatings,	93 (.051" Dia.) 1.3 mm 94 (.055" Dia.) 1.4 mm 95 (.059" Dia.) 1.5 mm 96 (.063" Dia.) 1.6 mm		
HEAVY: greater than 60 seconds in a Zahn 2 Cup.	97 (.070" Dia.) 1.7 mm		

NOTE: Use stainless steel Fluid Needle (54-3941) for all above nozzles. Optional nylon-tipped stainless steel Fluid Needle (54-3940) is also available.

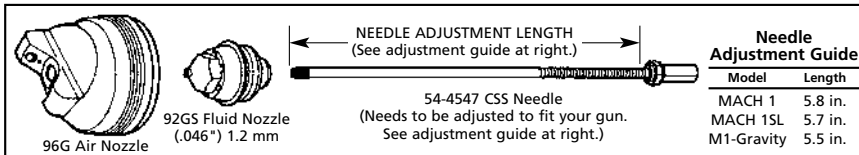
GS FLUID NOZZLES

FLUID	FLUID NOZZLE NO.	APPLICABLE AIR NOZZLE	FLUID NEEDLE
LIGHT/MEDIUM: less than 15 to 20 seconds in a Zahn 2 Cup, e.g., stains, varnishes, thin lacquers, automotive refinishing materials.	92GS (.046" Dia.) 1.2 mm 93GS (.052" Dia.) 1.3 mm 94GS (.055" Dia.) 1.4 mm	96G ■	SEE NOTE 54-4547
MEDIUM: 20 to 60 seconds in a ZAHN 2 Cup, e.g., general industrial coatings.	95GS (.059" Dia.) 1.5 mm 96GS (.063" Dia.) 1.6 mm 97GS (.070" Dia.) 1.7 mm		

NOTE: Optimum setup for clear coat spray is 92GS Fluid Nozzle x 96G Air Nozzle Assembly.

OPTIONAL GS FLUID NOZZLE SIZES

Nozzle	Diameter	
	Inches	mm
92GS	.046	1.2
93GS	.051	1.3
94GS	.055	1.4
96GS	.063	1.6



Example: 93GS Fluid Nozzle, 96G Air Nozzle & 54-4547 Needle.

SPECIAL PURPOSE NOZZLES

TYPICAL APPLICATION	FLUID NOZZLE NO.	APPLICABLE AIR NOZZLE	COMPATIBLE FLUID NEEDLE
VERY HEAVY FLUIDS: Block Fillers, Texture Coatings, Fire Retardants, Road Marking Paint, Bitumastics, Adhesives, Cellular Plastics, Underbody & Vitreous Coatings, Special Applications	94VT (.052") 1.3mm Carbide Tip	94P, 97P	54-3950
	901VT (.066") 1.6 mm Carbide Tip	905P ▲	54-3951
	903 (.079") 2.0 mm		54-3941/54-3940
	905 (.089") 2.3 mm		54-3941/54-3940
	905VT (.088") 2.3 mm Carbide Tip		54-3952
	906 (.100") 2.5 mm ▲		54-3941/59-3940
	909 (.111") 2.8 mm		54-3941/54-3940
FEATHERING For applications requiring more gradual fluid valve opening for metering control of fluid flow with trigger	909VT (.112") 2.8 mm Carbide Tip		54-3953
	90F (.030") 0.8 mm	94P	54-4022
	91F (.040") 1.0 mm	95P, 97P	54-4023
	92F (.046") 1.2 mm	92P, 93P*	54-4024
	94F (.055") 1.4 mm	95AP**●	54-4026
	97F (.070") 1.7 mm	97AP**●	54-4029
SIPHON FEED-FINE FINISH Light to medium fluids Auto body spot repairs Medium to heavy fluids Auto body overall finishing	909F (.111") 2.8 mm	97AP**●	54-4051
	94s (.055") 1.4 mm	95AS●	54-4026
	97s (.070") 1.7 mm		54-4029

* 93P Low Volume Nozzle for automotive fine finish.
92P Low Volume Nozzle for general industrial.

** 95AP High Solids Nozzle for hard to atomize coatings and higher flow rates.
97AP Same as 95AP, but for wider fan if needed.

*** 90P Low Volume Nozzle, 1 1/2 H.P. Compressor or bigger - (6 C.F.M.) required.

● 95AP, 95AS and 97AP Air Nozzles do not require separate Retainer Ring.

▲ Optional Square Needle ass'y 54-4398 may be used.

■ Improves atomization, breaks-up high solid material easier, provides better finish at lower pressures and reduces orange-peel dramatically.
54-4547 needle must be used in conjunction with the GS fluid nozzle and 96G air nozzle.

6



CLEMTEX

Houston Office
 248 McCarty Dr.
 P.O. Box 15214
 Houston, TX 77220-5214
 (713) 672-8251
 Fax (713) 672-6336

Mach 1 Continued...

AIR NOZZLES

AIR PRESSURE RECOMMENDATIONS

TYPE OF FLUID	ATOMIZING PSI	FLUID PRESSURE RANGE- PSI
Primer/surfaces	3-4	1-4
Light Stains, Inks	4-5	1-5
Acrylic Enamels	6-7	2-7
Lacquers	7-8	2-8
Low VOC, Urethanes	8-10	2-10

HVLP AIR NOZZLES 95P, 97P, 95AS, 95AP, 97AP, 905P

NOZZLE ATOMIZING PSI	NOZZLE AIRFLOW SCFM	#6 (STANDARD) SIDE PORT CONTROL		#10 (OPTIONAL) SIDE PORT CONTROL	
		GUN INLET PSI	REGULATOR* PSI	GUN INLET PSI	REGULATOR* PSI
3	11.0	20	27	45	49
5	15.7	30	40	65	70
7	17.5	38	50	73	80
9	19.6	45	58	88	96
10	22.5	50	64	95	105

HVLP AIR NOZZLE 90P

Nozzle Atomizing PSI	Nozzle AIRFLOW SCFM	#6 (Standard) Side Port Control GUN INLET PSI
3	4.0	5
5	4.5	7
7	5.0	10
9	5.5	12
10	6.0	15

HVLP AIR NOZZLES 92P

NOZZLE ATOMIZING PSI	NOZZLE AIRFLOW SCFM	#6 (STANDARD) SIDE PORT CONTROL	
		GUN INLET PSI	REGULATOR* PSI
3	4.5	6.0	9
5	6.0	8.5	10
7	6.8	11.0	14
9	7.5	13.5	18
10	8.0	15.0	19

HVLP AIR NOZZLE 94P

Nozzle Atomizing PSI	Nozzle AIRFLOW SCFM	#6 (Standard) Side Port Control GUN INLET PSI
3	7	14
5	9	21
7	11	27
9	12	30
10	13	33

HVLP AIR NOZZLE 93P

NOZZLE ATOMIZING PSI	NOZZLE AIRFLOW SCFM	#6 (STANDARD) SIDE PORT CONTROL	
		GUN INLET PSI	REGULATOR* PSI
3	5.5	8.0	10.0
5	7.0	11.5	14.0
7	8.0	14.5	18.0
9	9.5	17.0	22.5
10	10.0	18.0	24.0

HVLP AIR NOZZLE 96G

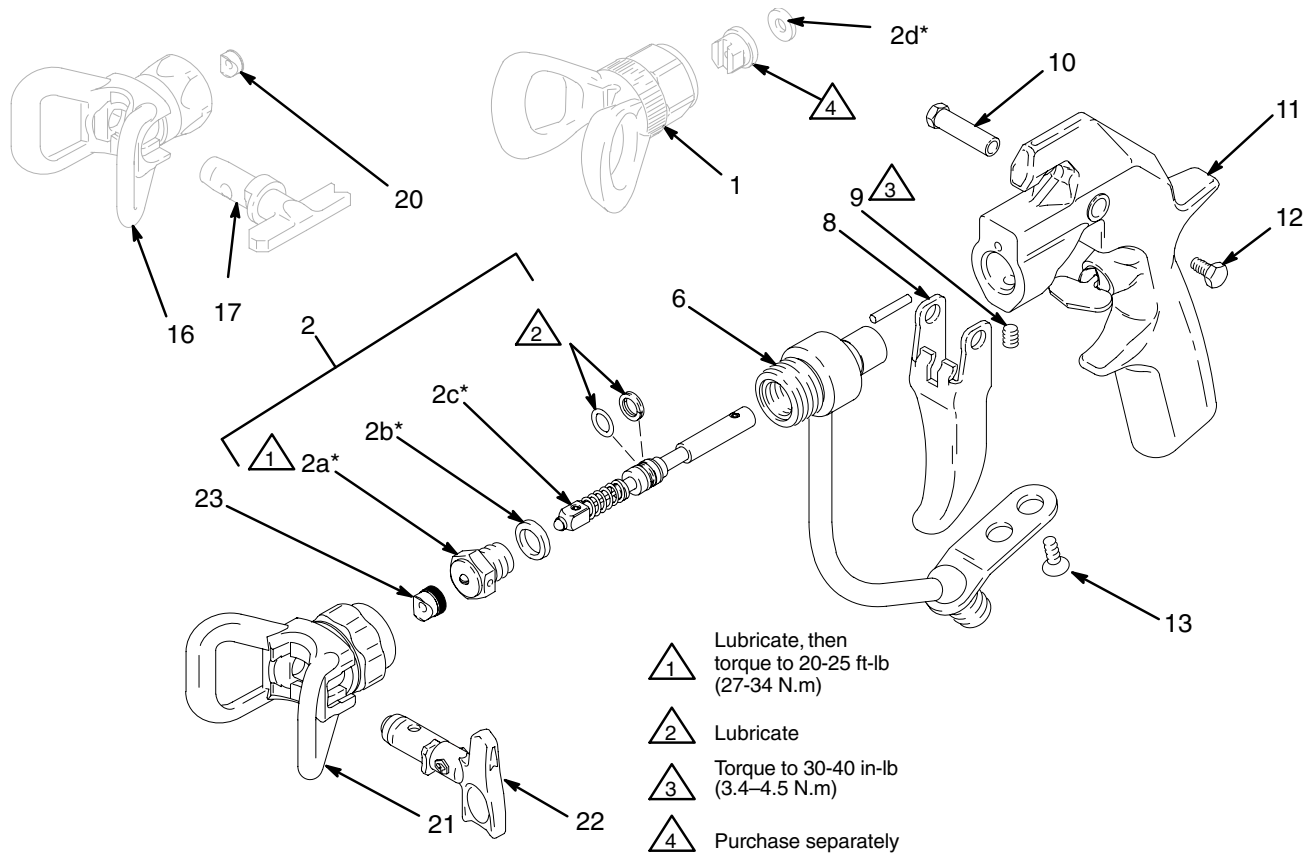
NOZZLE ATOMIZING PSI	NOZZLE AIRFLOW SCFM	#6 (STANDARD) SIDE PORT CONTROL	
		GUN INLET PSI	REGULATOR* PSI
3	7.5	23.0	35.0
5	14.0	29.0	42.0
7	15.5	33.0	47.0
9	17.5	39.0	55.0
10	19.0	43.0	60.0

*NOTE

Regulator pressures are based on 25' of 5/16" diameter hose in good condition without Quick-Disconnects or other restrictive fittings. Use the air nozzle test gauge accessory to confirm the atomizing/regulator pressure relationship for your actual air supply set-up.

These recommendations are for "typical" or "average" fluids, and are intended to serve as a starting point. Adjust as necessary for your specific application.

Graco Silver Plus



235460, C: Standard (non-reversing) DripLess™ Tip Guard; 2-finger trigger. *Includes items 1 to 15*

235461, B: Standard (non-reversing) DripLess™ Tip Guard; 4-finger trigger. *Includes items 1 to 15.*

Ref No.	Part No.	Description	Qty.
1	220251	STANDARD TIP GUARD	1
2	235474	NEEDLE KIT <i>Includes items 2a to 2d</i>	1
2a*	◇	DIFFUSER/SEAT	1
2b*	◇	GASKET, copper	1
2c*	◇	NEEDLE	1
2d*	166969	TIP GASKET	1
6	235482	FLUID HOUSING, two finger	1
8	187985	TRIGGER, two finger	1
9	102207	SETSCREW, 1/4-20	1
10	187965	PIVOT PIN	1
11	235471	GUN HANDLE	1
12	203953	SCREW, hex washer hd, 10-24	1
13	107091	SCREW, 1/4-20	2
14▲	187987	WARNING TAG <i>not shown</i>	1
15▲	222385	WARNING CARD <i>not shown</i>	1

Ref No.	Part No.	Description	Qty.
1	220251	STANDARD TIP GUARD	1
2	235474	NEEDLE KIT <i>Includes items 2a to 2d</i>	1
2a*	◇	DIFFUSER/SEAT	1
2b*	◇	GASKET, copper	1
2c*	◇	NEEDLE	1
2d*	166969	TIP GASKET	1
6	235483	FLUID HOUSING, four finger	1
8	188127	TRIGGER, four finger	1
9	102207	SETSCREW, 1/4-20	1
10	187965	PIVOT PIN	1
11	235471	GUN HANDLE	1
12	203953	SCREW, hex washer hd, 10-24	1
13	107091	SCREW, 1/4-20	2
14▲	187987	WARNING TAG <i>not shown</i>	1
15▲	222385	WARNING CARD <i>not shown</i>	1

9626A



CLEMTEX

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Silver Plus Continued... Tip Selection Chart

Orifice Size mm (inches)	Fan Width at 300 mm mm (inches)	Flow Rate* l/min (U.S. gpm)	RAC IV SwitchTip Part No. (221-xxx)	HD RAC Tip Part No. (GHD-xxx)	LineLaser Tip Part No. (LLT-xxx)	Silver Tip Part No. (163-odd nos.)	Flat Tip Part No. (269-xxx)	Fine Finish Flat Tip Part No. (163-even nos.)	Fine Finish RAC Part No. (FFR-xxx)
0.178 (0.007)	50-100 (2-4) 6-8 (150-200)	0.20 (.052)	221-307	GHD-307		163-107			
0.203 (0.008)	50-100 (2-4) 100-150 (4-6) 200-250 (8-10)	0.26 (0.069)						163-108 163-208 163-408	
0.229 (0.009)	50-100 (2-4) 100-150 (4-6) 150-200 (6-8) 200-250 (8-10) 250-300 (10-12) 300-350 (12-14)	0.33 (0.087)	221-200 221-209 221-309 221-409 221-509 221-609	GHD-109 GHD-209 GHD-309 GHD-409 GHD-509 GHD-609		163-109 163-209 163-309 163-409 163-509 163-609			
0.254 (0.010)	50-100 (2-4) 100-150 (4-6) 150-200 (6-8) 200-250 (8-10) 250-300 (10-12) 300-350 (12-14)	0.41 (0.107)						163-110 163-210 163-310 163-410 163-510 163-610	FFR-210 FFR-310 FFR-410 FFR-510
0.279 (0.011)	50-100 (2-4) 100-150 (4-6) 150-200 (6-8) 200-250 (8-10) 250-300 (10-12) 300-350 (12-14) 350-400 (14-16)	0.49 (0.13)	221-111 221-211 221-311 221-411 221-511 221-611	GHD-111 GHD-211 GHD-311 GHD-411 GHD-511 GHD-611 GHD-711		163-111 163-211 163-311 163-411 163-511 163-611 163-711	269-211 269-311 269-411 269-511		
0.305 (0.012)	100-150 (4-6) 150-200 (6-8) 200-250 (8-10) 250-300 (10-12) 300-350 (12-14) 350-400 (14-16)	0.59 (0.15)						163-212 163-312 163-412 163-512 163-612 163-712	FFR-212 FFR-312 FFR-412 FFR-512 FFR-612
0.330 (0.013)	50-100 (2-4) 100-150 (4-6) 150-200 (6-8) 200-250 (8-10) 250-300 (10-12) 300-350 (12-14) 350-400 (14-16) 400-460 (16-18)	0.69 (0.18)	221-203 221-213 221-313 221-413 221-513 221-613	GHD-113 GHD-213 GHD-313 GHD-413 GHD-513 GHD-613 GHD-713 GHD-813	LLT-213	163-113 163-213 163-313 163-413 163-513 163-613 163-713 163-813	269-213 269-313 269-413 269-513 269-613		
0.356 (0.014)	100-150 (4-6) 150-200 (6-8) 200-250 (8-10) 250-300 (10-12) 300-350 (12-14) 350-400 (14-16) 400-460 (16-18) 460-508 (18-20)	0.79 (0.21)						163-214 163-314 163-414 163-514 163-614 163-714 163-814 163-914	FFR-214 FFR-414 FFR-514 FFR-614
0.381 (0.015)	50-100 (2-4) 100-150 (4-6) 150-200 (6-8) 200-250 (8-10) 250-300 (10-12) 300-350 (12-14) 350-400 (14-16) 400-460 (16-18) 460-508 (18-20)	0.91 (0.24)	221-115 221-215 221-315 221-415 221-515 221-615	GHD-115 GHD-215 GHD-315 GHD-415 GHD-515 GHD-615 GHD-715 GHD-815	LLT-215 LLT-315 LLT-415	163-115 163-215 163-315 163-415 163-515 163-615 163-715 163-815 163-915	269-215 269-315 269-415 269-515 269-615 269-715 269-815		

Flow rate established with water at 13.8 MPa (138 bar) at the tip.



Silver Plus Continued...

Tip Selection Chart (cont'd)

Orifice Size <i>mm</i> <i>(inches)</i>	Fan Width at 300 mm <i>(12 in.)</i> <i>mm</i> <i>(inches)</i>	Flow Rate* <i>l/min</i> <i>(U.S. gpm)</i>	RAC IV Switch Tip Part No. <i>(221-xxx)</i>	HD RAC Tip Part No. <i>(GHD-xxx)</i>	LineLaser Tip Part No. <i>(LLT-xxx)</i>	Silver Tip Part No. <i>(163-odd nos.)</i>	Flat Tip Part No. <i>(269-xxx)</i>	Fine Finish Flat Tip Part No. <i>(163-even nos.)</i>	Fine Finish RAC Part No. <i>(FFR-xxx)</i>
0.432 (0.017)	50-100 (2-4)	1.17		GHD-117		163-117			
	100-150 (4-6)	(31.0)	221-217	GHD-217	LLT-217	163-217	269-217		
	150-200 (6-8)		221-317	GHD-317	LLT-317	163-317	269-317		
	200-250 (8-10)		221-417	GHD-417	LLT-417	163-417	269-417		
	250-300 (10-12)		221-517	GHD-517		163-517	269-517		
	300-350 (12-14)		221-617	GHD-617		163-617	269-617		
	350-400 (14-16)			GHD-717		163-717	269-717		
	400-460 (16-18)		221-817	GHD-817		163-817			
	460-508 (18-20)			GHD-917		163-917			
0.457 (0.018)	100-150 (4-6)	1.32						163-218	
	150-200 (6-8)	(0.35)						163-318	
	200-250 (8-10)							163-418	
	250-300 (10-12)							163-518	
	300-350 (12-14)							163-618	
	350-400 (14-16)							163-718	
	400-460 (16-18)							163-818	
	460-508 (18-20)							163-918	
0.483 (0.019)	50-100 (2-4)	1.47	221-201	GHD-119		163-119			
	100-150 (4-6)	(0.39)	221-219	GHD-219	LLT-219	163-219	269-219		
	150-200 (6-8)		221-319	GHD-319	LLT-319	163-319	269-319		
	200-250 (8-10)		221-419	GHD-419	LLT-419	163-419	269-419		
	250-300 (10-12)		221-519	GHD-519		163-519	269-519		
	300-350 (12-14)		221-619	GHD-619		163-619	269-619		
	350-400 (14-16)			GHD-719		163-719			
	400-460 (16-18)		221-819	GHD-819		163-819	269-819		
	460-508 (18-20)					163-819			
0.508 (0.020)	150-200 (6-8)	1.63						163-318	
	200-250 (8-10)	(0.43)						163-418	
	250-300 (10-12)							163-518	
	300-350 (12-14)							163-618	
	400-460 (16-18)							163-818	
0.533 (0.021)	50-100 (2-4)	1.79	221-202	GHD-121		163-121			
	100-150 (4-6)	(0.47)	221-221	GHD-221		163-221			
	150-200 (6-8)		221-321	GHD-321	LLT-321	163-321			
	200-250 (8-10)		221-421	GHD-421	LLT-421	163-421	269-421		
	250-300 (10-12)		221-521	GHD-521		163-521	269-521		
	300-350 (12-14)		221-621	GHD-621	LLT-621	163-621	269-621		
	350-400 (14-16)		221-721	GHD-721		163-721	269-721		
	400-460 (16-18)		221-821	GHD-821		163-821	269-821		
	460-508 (18-20)					163-921			
0.559 (0.022)	150-200 (6-8)	1.97						163-322	
	250-300 (10-12)	(0.52)						163-522	
	300-350 (12-14)							163-622	
	400-460 (16-18)							163-822	
	460-508 (18-20)							163-922	
0.584 (0.023)	100-150 (4-6)	2.15	221-223			163-223			
	150-200 (6-8)	(0.57)	221-323	GHD-323	LLT-323	163-323			
	200-250 (8-10)		221-423	GHD-423	LLT-423	163-423			
	250-300 (10-12)		221-523	GHD-523		163-523	269-523		
	300-350 (12-14)		221-623	GHD-623	LLT-623	163-623	269-623		
	350-400 (14-16)		221-723	GHD-723		163-723			
	400-460 (16-18)			GHD-823		163-823			
	460-508 (18-20)			GHD-923		163-923			

Flow rate established with water at 13.8 MPa (138 bar) at the tip.



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Silver Plus Continued...

Tip Selection Chart (cont'd)

Orifice Size mm (inches)	Fan Width at 300 mm (12 in.) mm (inches)	Flow Rate* l/min (U.S. gpm)	RAC IV SwitchTip Part No. (221-xxx)	HD RAC Tip Part No. (GHD-xxx)	LineLaser Tip Part No. (LLT-xxx)	Silver Tip Part No. (163-odd nos.)	Flat Tip Part No. (269-xxx)	Fine Finish Flat Tip Part No. (163-even nos.)	Fine Finish RAC Part No. (FFR-xxx)
0.610 (0.024)	100-150 (4-6)	2.35						163-224	
	150-200 (6-8)	(0.62)						163-324	
	200-250 (8-10)							163-424	
	250-300 (10-12)							163-524	
	300-350 (12-14)							163-624	
	400-460 (16-18)							163-824	
0.635 (0.025)	460-508 (18-20)							163-924	
	100-150 (4-6)	2.54	221-225	GHD-225	LLT-225	163-225	269-225		
	150-200 (6-8)	(0.67)	221-325	GHD-325	LLT-325	163-325	269-325		
	200-250 (8-10)		221-425	GHD-425	LLT-425	163-425	269-425		
	250-300 (10-12)		221-525	GHD-525		163-525	269-525		
	300-350 (12-14)		221-625	GHD-625		163-625	269-625		
0.660 (0.026)	350-400 (14-16)			GHD-725		163-725			
	400-460 (16-18)		221-825	GHD-825		163-825	269-825		
	460-508 (18-20)					163-925			
	200-250 (8-10)	2.76						163-426	
	250-300 (10-12)	(0.73)						163-526	
	300-350 (12-14)							163-626	
0.686 (0.027)	400-460 (16-18)							163-826	
	460-508 (18-20)							163-926	
	100-150 (4-6)	2.96		GHD-227		163-227	269-227		
	150-200 (6-8)	(0.78)	221-327	GHD-327	LLT-327	163-327	269-327		
	200-250 (8-10)		221-427	GHD-427	LLT-427	163-427	269-427		
	250-300 (10-12)		221-527	GHD-527		163-527	269-527		
0.711 (0.028)	300-350 (12-14)		221-627	GHD-627	LLT-627	163-627	269-627		
	350-400 (14-16)			GHD-727		163-727			
	400-460 (16-18)		221-827	GHD-827		163-827	269-827		
	460-508 (18-20)			GHD-927		163-927			
	200-250 (8-10)	2.76						163-428	
	250-300 (10-12)	(0.73)						163-528	
0.737 (0.029)	300-350 (12-14)							163-628	
	400-460 (16-18)							163-828	
	100-150 (4-6)	3.42				163-229			
	150-200 (6-8)	(0.90)		GHD-329		163-329			
	200-250 (8-10)		221-429	GHD-429		163-429			
	250-300 (10-12)		221-529	GHD-529		163-529			
0.762 (0.030)	300-350 (12-14)		221-629	GHD-629		163-629			
	350-400 (14-16)		221-729	GHD-729		163-729			
	400-460 (16-18)			GHD-829		163-829			
	460-508 (18-20)					163-929			
	200-250 (8-10)	3.67						163-430	
	250-300 (10-12)	(0.97)						163-530	
0.787 (0.031)	100-150 (4-6)	3.90		GHD-231		163-231			
	150-200 (6-8)	(1.03)	221-331	GHD-331	LLT-331	163-331			
	200-250 (8-10)		221-431	GHD-431	LLT-431	163-431			
	250-300 (10-12)		221-531	GHD-531		163-531	269-531		
	300-350 (12-14)		221-631	GHD-631	LLT-631	163-631	269-631		
	350-400 (14-16)			GHD-731		163-731			
0.813 (0.032)	400-460 (16-18)		221-831	GHD-831		163-831	269-831		
	460-508 (18-20)			GHD-931		163-931			
	100-150 (4-6)	4.16						163-232	
	200-250 (8-10)	(1.1)						163-432	
	400-460 (16-18)							163-832	

Flow rate established with water at 13.8 MPa (138 bar) at the tip.



Silver Plus Continued...

Tip Selection Chart (cont'd)

Orifice Size <i>mm</i> <i>(inches)</i>	Fan Width at 300 mm <i>mm</i> <i>(inches)</i>	Flow Rate* <i>l/min</i> <i>(U.S. gpm)</i>	RAC IV Switch Tip Part No. (221-xxx)	HD RAC Tip Part No. (GHD-xxx)	LineLaser Tip Part No. (LLT-xxx)	Silver Tip Part No. (163-odd nos.)	Flat Tip Part No. (269-xxx)	Fine Finish Flat Tip Part No. (163-even nos.)	Fine Finish RAC Part No. (FFR-xxx)
0.828 (0.033)	150-200 (6-8)	4.42		GHD-333					
	200-250 (8-10)	(1.17)	221-433	GHD-433		163-433			
	250-300 (10-12)		221-533	GHD-533		163-533			
	300-350 (12-14)		221-633	GHD-633		163-633			
	350-400 (14-16)			GHD-733		163-733			
	400-460 (16-18)		221-833	GHD-833		163-833			
	460-508 (18-20)			GHD-933		163-933			
0.889 (0.035)	100-150 (4-6)	4.98		GHD-235	LLT-225	163-235			
	150-200 (6-8)	(1.31)		GHD-335	LLT-325	163-335			
	200-250 (8-10)		221-435	GHD-435	LLT-425	163-435			
	250-300 (10-12)		221-535	GHD-535		163-535			
	300-350 (12-14)		221-635	GHD-635		163-635	269-635		
	350-400 (14-16)		221-735	GHD-735		163-735			
	400-460 (16-18)		221-835	GHD-835		163-835			
	460-508 (18-20)		221-935	GHD-935		163-935			
0.940 (0.037)	150-200 (6-8)	5.56		GHD-337					
	200-250 (8-10)	(1.47)		GHD-437					
	250-300 (10-12)			GHD-537					
	300-350 (12-14)			GHD-637		163-637			
	350-400 (14-16)			GHD-737		163-737			
	400-460 (16-18)			GHD-837					
	460-508 (18-20)			GHD-937					
0.991 (0.039)	100-150 (4-6)	6.18		GHD-239		163-239			
	150-200 (6-8)	(1.63)		GHD-339		163-339			
	200-250 (8-10)		221-439	GHD-439		163-439			
	250-300 (10-12)			GHD-539		163-539			
	300-350 (12-14)			GHD-639		163-639			
	350-400 (14-16)			GHD-739					
	400-460 (16-18)			GHD-839		163-839			
	460-508 (18-20)			GHD-939		163-939			
1.041 (0.041)	150-200 (6-8)	6.83		GHD-341	LLT-341	163-341			
	200-250 (8-10)	(1.80)		GHD-441		163-441			
	250-300 (10-12)			GHD-541		163-541			
	300-350 (12-14)			GHD-641		163-641			
	350-400 (14-16)			GHD-741					
	400-460 (16-18)			GHD-841		163-841			
1.092 (0.043)	150-200 (6-8)	7.51		GHD-343					
	200-250 (8-10)	(1.99)	221-443	GHD-443		163-443			
	250-300 (10-12)		221-543	GHD-543		163-543			
	300-350 (12-14)			GHD-643		163-643			
	350-400 (14-16)			GHD-743					
	400-460 (16-18)			GHD-843					
	460-508 (18-20)					163-943			
1.143 (0.045)	150-200 (6-8)	8.21		GHD-345	LLT-345				
	200-250 (8-10)	(2.17)		GHD-445		163-445			
	250-300 (10-12)			GHD-545		163-545			
	300-350 (12-14)		221-645	GHD-645		163-645			
	400-460 (16-18)					163-845			
1.194 (0.047)	150-200 (6-8)	8.98		GHD-347					
	200-250 (8-10)	(2.37)		GHD-447					
	250-300 (10-12)			GHD-547		163-547			
	300-350 (12-14)			GHD-647		163-647			
	350-400 (14-16)			GHD-747					
	400-460 (16-18)			GHD-847		163-847			

Flow rate established with water at 13.8 MPa (138 bar) at the tip.



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Silver Plus Continued...

Tip Selection Chart (cont'd)

Orifice Size mm (inches)	Fan Width at 300 mm mm (inches)	Flow Rate* l/min (U.S. gpm)	RAC IV Switch/Tip Part No. (221-xxx)	HD RAC Tip Part No. (GHD-xxx)	LineLaser Tip Part No. (LLT-xxx)	Silver Tip Part No. (163-odd nos.)	Flat Tip Part No. (269-xxx)	Fine Finish Flat Tip Part No. (163-even nos.)	Fine Finish RAC Part No. (FFR-xxx)
1.245 (0.049)	150-200 (6-8)	9.75		GHD-349	LLT-349				
	200-250 (8-10)	(2.58)		GHD-449		163-449			
	250-300 (10-12)			GHD-549					
	300-350 (12-14)			GHD-649					
	350-400 (14-16)			GHD-749		163-749			
1.295 (0.051)	400-460 (16-18)					163-849			
	150-200 (6-8)	10.6		GHD-351	LLT-351				163-351
	200-250 (8-10)	(2.79)	221-451	GHD-451					163-451
	250-300 (10-12)		221-551	GHD-551					163-551
	300-350 (12-14)			GHD-651					163-651
1.346 (0.053)	350-400 (14-16)	11.41		GHD-553					163-553
	400-460 (16-18)	(3.01)		GHD-753					
1.397 (0.055)	150-200 (6-8)	12.29		GHD-355	LLT-355				
	200-250 (8-10)	(3.21)	221-455	GHD-455	LLT-455	163-455			
	250-300 (10-12)		221-555	GHD-555		163-555			
	300-350 (12-14)		221-655	GHD-655		163-655			
	350-400 (14-16)			GHD-755					
1.448 (0.057)	400-460 (16-18)			GHD-855					
	150-200 (6-8)	13.2				163-357			
	200-250 (8-10)	(3.49)				163-457			
	250-300 (10-12)			GHD-557		163-557			
	300-350 (12-14)			GHD-657		163-657			
1.499 (0.059)	350-400 (14-16)					163-757			
	150-200 (6-8)	14.14				163-359			
	200-250 (8-10)	(3.74)				163-459			
	250-300 (10-12)			GHD-559		163-559			
	300-350 (12-14)			GHD-659		163-659			
1.549 (0.061)	350-400 (14-16)					163-749			
	400-460 (16-18)								
	200-250 (8-10)	15.12		GHD-461		163-461			
	250-300 (10-12)	(3.99)		GHD-561		163-561			
	300-350 (12-14)			GHD-661		163-661			
1.600 (0.063)	350-400 (14-16)			GHD-761		163-761			
	400-460 (16-18)			GHD-861		163-861			
	200-250 (8-10)	16.13		GHD-463		163-463			
	250-300 (10-12)	(4.26)	221-563	GHD-563		163-563			
	300-350 (12-14)			GHD-663		163-663			
1.651 (0.065)	350-400 (14-16)			GHD-763		163-763			
	400-460 (16-18)			GHD-863		163-863			
	200-250 (8-10)	17.17		GHD-465		163-465			
	250-300 (10-12)	(4.53)		GHD-565		163-565			
	300-350 (12-14)		221-665	GHD-665		163-665			
1.702 (0.067)	350-400 (14-16)					163-765			
	400-460 (16-18)					163-865			
	200-250 (8-10)	18.24		GHD-467		163-467			
	250-300 (10-12)	(4.82)		GHD-567		163-567			
	300-350 (12-14)			GHD-667		163-667			
1.753 (0.069)	350-400 (14-16)			GHD-767		163-767			
	400-460 (16-18)			GHD-867		163-867			
	200-250 (8-10)	19.36				163-469			
	250-300 (10-12)	(5.11)				163-569			
	300-350 (12-14)			GHD-669		163-669			

Flow rate established with water at 13.8 MPa (138 bar) at the tip.



Silver Plus Continued...

Tip Selection Chart (cont'd)

Orifice Size mm (inches)	Fan Width at 300 mm (12 in.) mm (inches)	Flow Rate* l/min (U.S. gpm)	RAC IV SwitchTip Part No. (221-xxx)	HD RAC Tip Part No. (GHD-xxx)	LineLaser Tip Part No. (LLT-xxx)	Silver Tip Part No. (163-odd nos.)	Flat Tip Part No. (269-xxx)	Fine Finish Flat Tip Part No. (163-even nos.)	Fine Finish RAC Part No. (FFR-xxx)
1.803 (0.071)	200-250 (8-10) 250-300 (10-12) 300-350 (12-14) 350-400 (14-16) 400-460 (16-18)	20.48 (5.41)		GHD-471 GHD-571 GHD-671 GHD-771		163-471 163-571 163-671 163-871			
1.854 (0.073)	200-250 (8-10) 250-300 (10-12)	21.57 (5.7)				163-473 163-573			
1.905 (0.075)	200-250 (8-10) 250-300 (10-12) 300-350 (12-14)	22.85 (6.04)		GHD-475 GHD-575 GHD-675		163-475			
1.956 (0.077)	200-250 (8-10)	24.22 (6.4)				163-477			
2.006 (0.079)	200-250 (8-10)	25.36 (6.7)				163-479			
2.057 (0.081)	200-250 (8-10)	26.66 (7.04)		GHD-481		163-481			

Flow rate established with water at 13.8 MPa (138 bar) at the tip.

Accessories for Silver Plus

Filters

Maximum working pressure: 21.0 MPa (210 bar). Adequate filtering is important for a good surface finish and to minimize tip clogging. These filters provide secondary filtering. Various screen meshes are available.

Filters that mount in hose:

- 213-068** Includes filter body, spring and one 100 mesh screen.
- 213-069** Includes filter spring and one 60 mesh screen. Use with 213-068 filter body.
- 210-742** Includes filter spring and one 100 mesh screen. Use with 213-068 filter body.
- 210-729** Includes assembly 213-068 plus a 0.9 m whip hose for more flexible gun movement.

Filters that mount between hose and gun:

- 210-500** Includes swivel, adapter, and one 100 mesh screen.

Replacement screens for above filters:

- 210-731** Three 250 micron (60 mesh) screens.
- 210-732** Three 149 micron (100 mesh) screens.
- 210-733** Three 74 micron (200 mesh) screens.

Gun Hose Swivels and Whip Hose

Swivels and whip hoses provide more flexible gun movement for easier handling and less fatigue. Working pressures are listed in the descriptions.

- 207-946 Gun Hose Swivel**
1/2 npsm(f) x 3/8 npt(f).
Max. working pressure: 35.0 MPa (350 bar).
- 204-940 Gun Hose Swivel**
1/4 npsm(f) x 1/4 npt(m).
Max. working pressure: 21.0 MPa (210 bar).

214-700 Whip Hose, Nylon

Coupled 1/4 npsm(f) x 3/8 npt(m), spring guards both ends.
Max. working pressure: 21.0 MPa (210 bar).

Nylon Brushes

Use to thoroughly clean the gun's fluid passages.

- 101-891** 9 mm diameter.
- 101-892** 16 mm diameter.

Tools

- 171-147 Wrench**
Fixes all hexes on the gun.
- 188-369 Needle Tool**
Required to install new needle without damaging it.

Tip Guards

These tip guards fit all Graco airless spray guns. Choose the one that is right for your application. One of these tip guards is included with every Graco airless gun. Use the chart on the inside pages of this data sheet as a Tip Selection Guide.

- 220-422 RAC IV DripLess Tip Guard**
Includes SwitchTip of choice.
- 220-222 Standard DripLess Tip Guard**
Order flat tip separately.
- 222-674 Heavy-Duty RAC DripLess Tip Guard**
Order SwitchTip separately.



CLEMTEX

Houston Office
248 McCarty Dr.
P.O. Box 15214
Houston, TX 77220-5214
(713) 672-8251
Fax (713) 672-6336

Silver Plus Continued...

Ordering Information

- 235-463 Silver Plus with RAC IV DripLess Tip Guard and 517 SwitchTip, 2-Finger Trigger**
- 235-464 Silver Plus with HD RAC IV Tip Assembly, and 617 SwitchTip, 2-Finger Trigger**
- 238-591 Silver Plus with HD RAC IV Tip Assembly, and 525 SwitchTip, 4-Finger Trigger**
- 235-460 Silver Plus with DripLess Flat Tip Guard, 2-Finger Trigger**
Spray tip not included. Order separately.
- 238-966 Silver Plus with HD RAC IV Tip Guard, 2-Finger Trigger with 4-Finger Fluid Tube**
For improved gloved hand access.
- 235-461 Silver Plus with DripLess Flat Tip Guard, 4-Finger Trigger**
Spray tip not included. Order separately.
- 235-462 Silver Plus with DripLess Flat Tip Guard, 0.94 mm (0.037 in.) Preorifice**
For Fine Finish.
Spray tip not included. Order separately.
- 235-474 Silver Plus Gun Repair Kit**

Technical Specifications

- Max. working fluid pressure** 34.5 MPa (345 bar)
- Weight**
without tip or guard 510 g
- Fluid orifice**
All models, except 235-462 2.3 mm
235-462 0.94 mm
- Fluid inlet** 1/4 npsm(m)
- Maximum material temperature** 50°C
- Sound pressure level*** 78 dBa
- Sound power level*** 87 dBa
- Wetted parts** stainless steel, polyethylene, polyurethane, nylon, Teflon®
- Instruction manual** 308-236

* Measured while spraying waterborne paint – gravity 1.36 through a 517 tip at 20.7 MPa (207 bar) per ISO 3744.

Teflon® is a registered trademark of Du Pont.

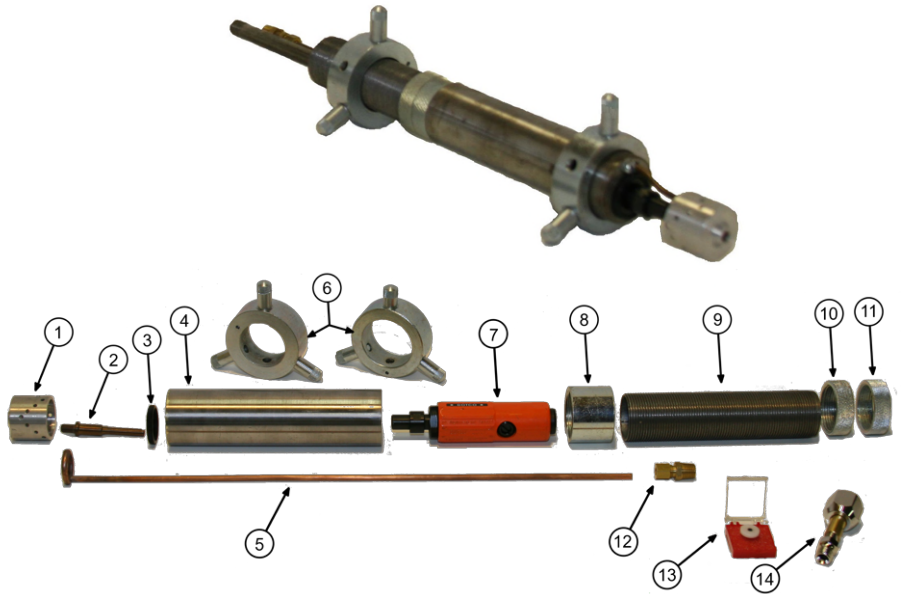




Internal Diameter Paint Equipment HDCBX-360-2 and HDCBX-360-112

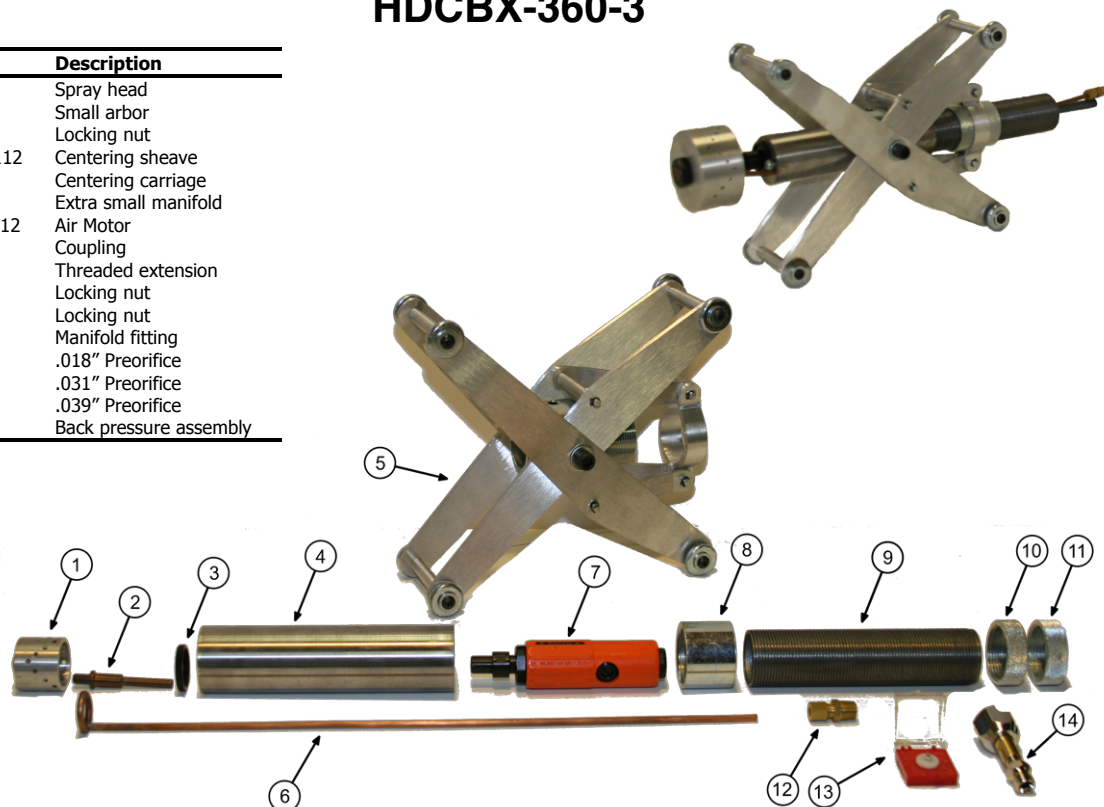
Part #	Description
1	HDCBX-112 Spray head
2	HDCBX-SA Small arbor
3	HDCBX-LC Locking nut
4	HDCBX-CCS-112 Centering device
5	HDCBX-XS Extra small manifold
6	HBC01124 Centering carriage
7	HDCBX-150-112 Air motor
8	HBS01095 Coupling
9	CBX205 Threaded extension
10	HBS01095 Coupling
11	HBS01095 Coupling
12	HDCBXMF Manifold fitting
13A	512018 .018" Preorifice
13B	512031 .031" Preorifice
13C	512039 .039" Preorifice
14	CP-4928-A Back pressure assembly

*** HDCBX-360-2 is shown. HDCBX-360-112 is the same without the centering carriage (6)



HDCBX-360-3

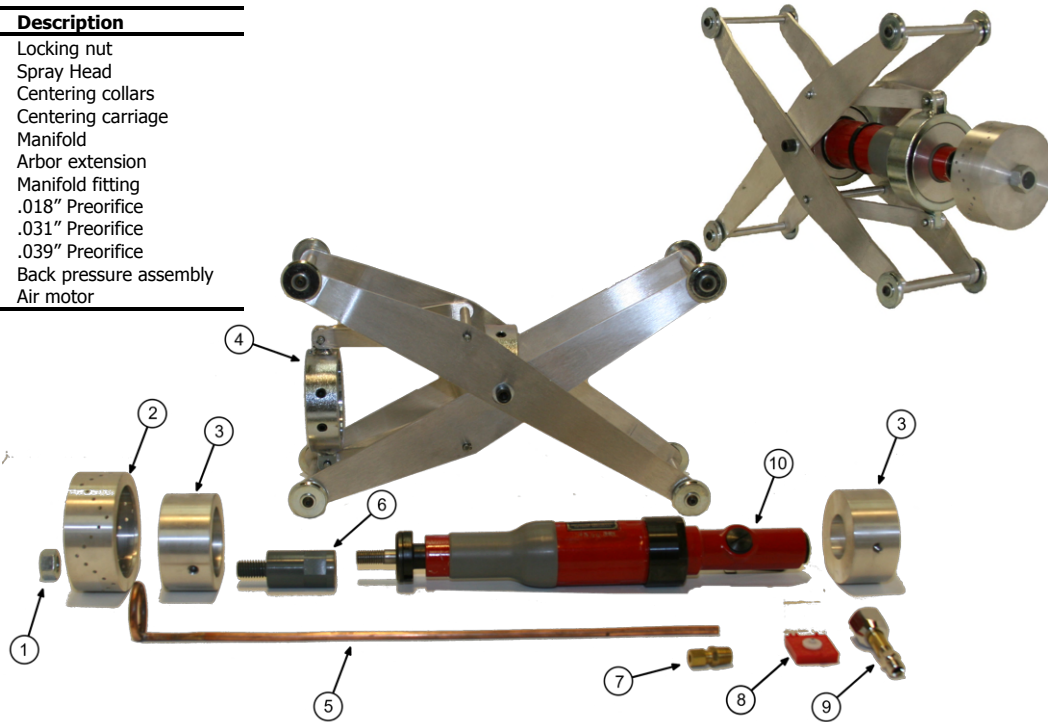
Part #	Description
1	HDCBX-112 Spray head
2	HDCBX-SA Small arbor
3	HDCBX-LC Locking nut
4	HDCBX-CCS-112 Centering sheave
5	HBC01131 Centering carriage
6	HDCBX-XS Extra small manifold
7	HDCBX-150-112 Air Motor
8	HBS01095 Coupling
9	CBX-205 Threaded extension
10	HBS01092 Locking nut
11	HBS01092 Locking nut
12	HDCBXMF Manifold fitting
13	512018 .018" Preorifice
13B	512031 .031" Preorifice
13C	512039 .039" Preorifice
14	CP-4928-A Back pressure assembly





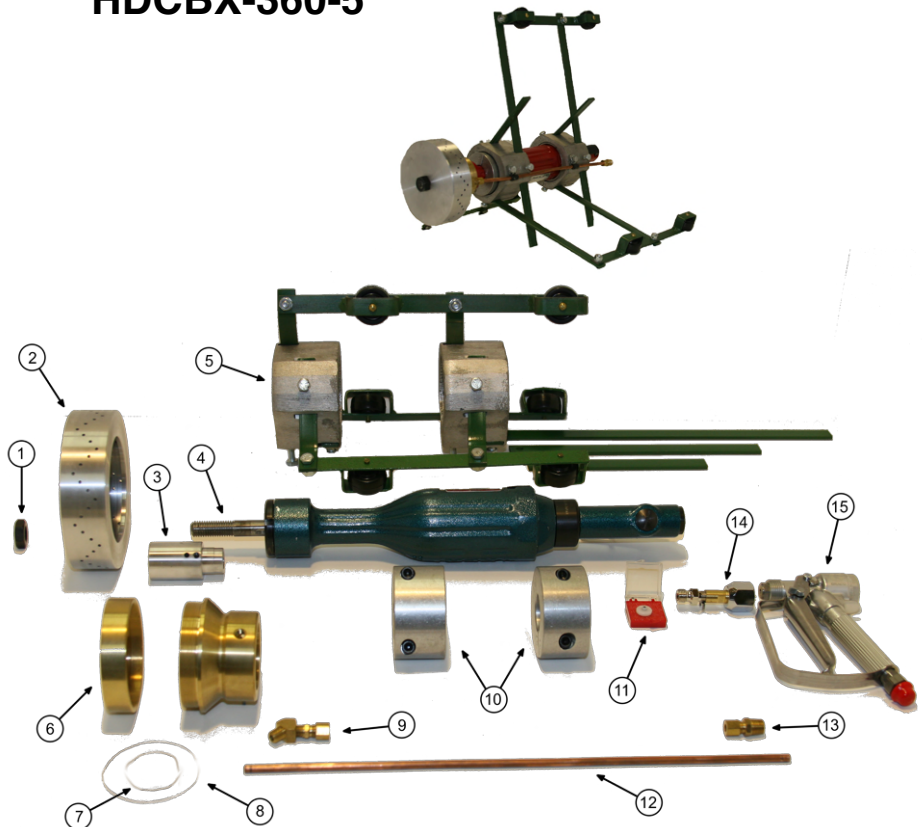
HDCBX-360-4

Part #	Description
1	HDCBX-LN Locking nut
2	HDCBX-4 Spray Head
3	HDCBX-CCS-4 Centering collars
4	ISBO3641 Centering carriage
5	HDCBX-M Manifold
6	HDCBX-AE Arbor extension
7	HDCBX-MFM Manifold fitting
8A	512018 .018" Preorifice
8B	512031 .031" Preorifice
8C	512039 .039" Preorifice
9	CP-4928-A Back pressure assembly
10	HDCBX-150-4 Air motor



HDCBX-360-5

Part #	Description
1	HDCBX-LN Locking nut
2	HDCBX-6 Spray head
3	HDCBX-SE-6 Extension
4	HDCBX-150-6 Air motor
5	SB-636-18 Centering carriage
6	HDCBX-L Large manifold
7	HDCBX-ORS Small "O" ring
8	HDCBX-ORL Large "O" ring
9	HDCBX-LMF Large manifold fitting
10	HDCBX-CCS-6 Centering collars
11A	512018 .018" Preorifice
11B	512031 .031" Preorifice
11C	512039 .039" Preorifice
12	HDCBX CT Copper tube
13	HDCBX-MFM Manifold fitting
14	CP-4928-A Back pressure assembly
15	243-283 Airless gun



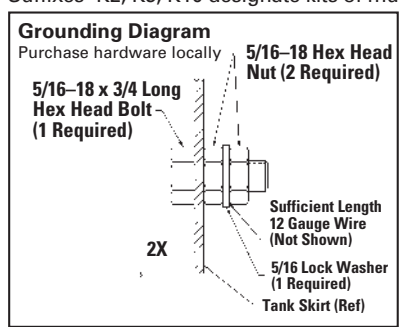


Paint Tanks

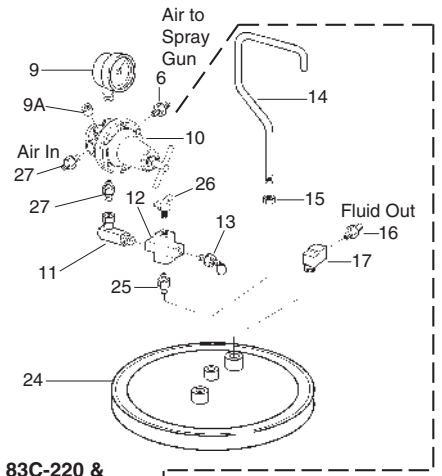
Binks 83C Pressure Tank

Ref. No.	Replacement Part No.	Description	Individual Parts Req.
1	PT-423	Tank Assy. Kit (Includes Ref. Nos. 1A, 18, 19, 20 & 21)	1
1A	PT-420	Tank Shell	1
2	PT-33-1	Lid Gasket, Santoprene	1
3	PT-425	Lid, Zinc Plated (Agitator)	1
4	PT-418	Air Motor/Adapter Assy. (See Pg. 5 for Breakdown)	1
*5	---	Street Elbow 1/4" NPT (F) x 1/4" NPT (M)	1
6	H-2008	Nipple 1/4" NPT(M) (83C-210 & 83C-220) x 1/4"NPS(M) (83C-211 & 83C-221)	2
7	HA-57011	Hose Assembly	1
8	HAV-500	Air Adjusting Valve 1/4" NPS (F) x 1/4" NPS (M)	1
9	83-2727	Gauge (83C-210, 83C-211)	1
		Gauge (83C-220, 83C-221)	2
*9A	---	Pipe Plug 1/4" NPT(M)(Supplied/Reg)	1
10	HAR-511	Regulator (All regulated models)	1
10A	HAR-507	Regulator (83C-220 & 83C-221)	1
11	SSP-30-ZN	90° Swivel Adapter 1/4" NPS (F) x 1/4" NPT (M)	1
*12	---	Cross 1/4" NPT (F)	1
13	TIA-4080	Safety Valve - 80 PSI	1
14	PT-32	Handle	1
*15	---	Hex Nut 3/8"-16	1
16	AD-11	Nipple 3/8" NPT (M) x 3/8" NPT (M) S.S.	1
*17	---	Street Elbow 3/8" NPT (F) x 3/8" NPT (M) S.S.	1
18	---	Thumb Screw	4
19	---	Yoke Assembly	4
20	---	Cotter Pin, 3/32 x 1"	4
21	---	Hinge Pin	4
22	PT-31	Fluid Tube, Galv.	1
23	PT-78-K10 or PT-78-K60	Tank Liner (Kit of 10 or 60)	1
24	PT-426	Lid, Zinc Plated	1
25	SSP-462-ZN	Hex Nipple 1/4" NPT(M)	1
26	SS-2707	Air Relief Valve	1
27	83-4233	D. M. Nipple (Universal Pipe Thread) (83C-210, 83C-211) (83C-220, 83C-221)	2
63	KK-5057	Clamp, Pin & Screw Kit (Includes 1 Ea. Ref. Nos. 18, 19, 20 & 21)	1
65	KK-5076	Safety Valve & Drain Valve Kit (Includes 1 Ea. Ref. Nos. 13 & 26)	1

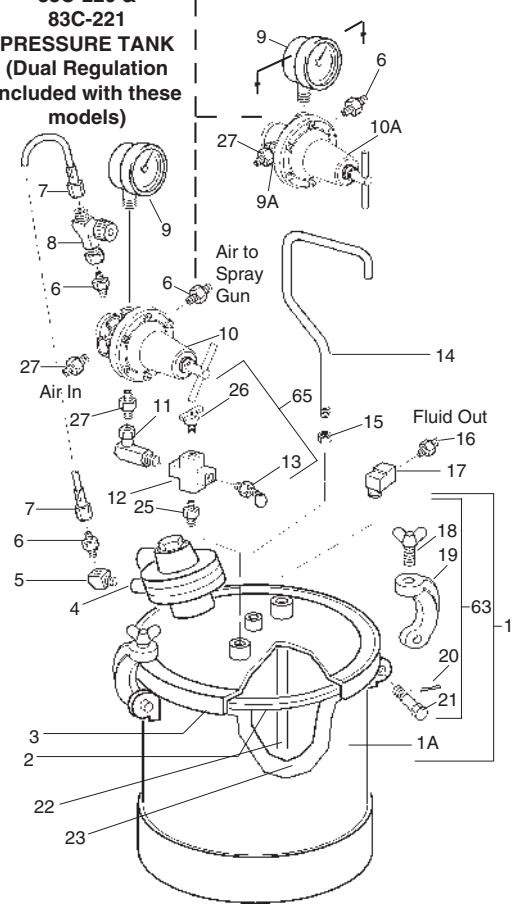
*Purchase locally.
Suffixes -K2, K5, K10 designate kits of multiple parts.



83C-210 PRESSURE TANK
(Includes Ref. No. 1, 2 and 18 thru 23)



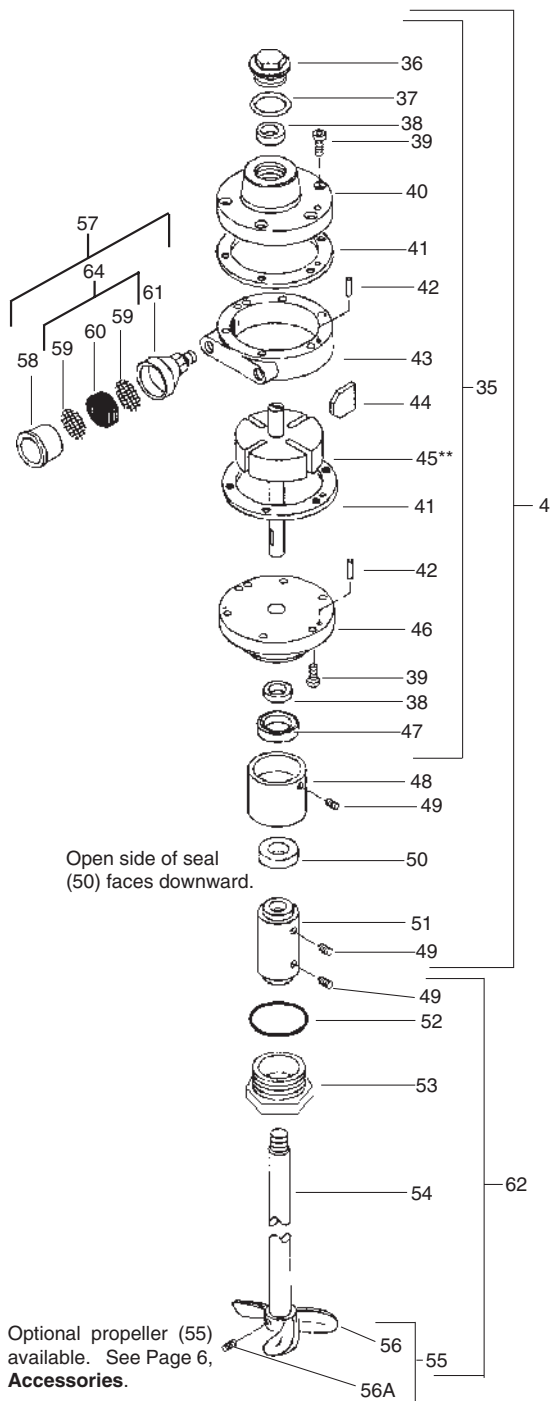
83C-220 & 83C-221 PRESSURE TANK (Dual Regulation included with these models)



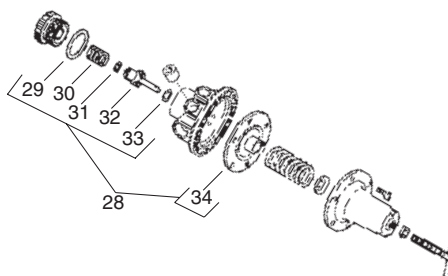
83C-211 PRESSURE TANK WITH AGITATOR



Binks 83C Continued...



PT-418 Air Motor/Adapter Ass'y (Ref. No. 4)
 Includes Ref. Nos. 35, 48, 49, 50, & 51.



HAR-507 (Ref. No. 10A) & HAR-511 (Ref. No. 10) REGULATOR ASSEMBLIES (HAR-511 shown)

Ref. No.	Replacement Part No.	Description	Individual Parts Req.
28	KK-4977	Repair Kit	1
29	---	"O" Ring	1
30	---	Spring	1
31	---	"O" Ring	1
32	---	Valve	1
33	---	"O" Ring	1
34	---	Diaphragm Assembly	1
35	PT-410	Air Motor Assembly	1
36	QS-190	End Cap	1
* 37	---	End Cap Gasket	1
38	PT-58	Bearing	2
39	Purchase locally	Screw (1/4"-28 x 1/2")	12
40	---	Front Plate	1
* 41	PT-59-1-K10	End Plate Spacer	2
42	QS-189-1-K10	Dowel Pin (Kit of 10)	4
43	---	Body	1
* 44	---	Vane	4
45	---	Rotor Assembly	1
46	---	End Plate	1
47	PT-56	Shaft Seal	1
+ 48	PT-50	Air Motor Adapter	1
+* 49	Purchase locally	Set Screw (1/4"-20 x 1/4")	4
+ 50	KK-5041	Seal Assembly	1
* 51	QMG-441	Shaft Coupling Kit (Includes #49)	1
+ 52	SSG-8096-K5	"O" Ring (Kit of 5)	1
+ 53	PT-70	Adapter Nut	1
* 54	QMG-56	Shaft	1
* 55	QMS-448	Propeller Assy.	1
56	---	Propeller	1
56A	Purchase locally	Set Screw (1/4"-20 x 3/8" S.S.)	1
57	350-401	Muffler Assembly	1
58	---	Body	1
59	---	Screen	2
* 60	---	Felt	1
61	---	Cap	1
62	PT-428	Agitator Shaft Assembly (Includes 1 Ea. Ref. Nos. 49, 52, 53, 54 & 55)	1
64	KK-5006	Strainer Screen & Felt Kit (Includes 2 Ea. Ref. No. 59 & 4 Ea. Ref. No. 60)	1

* Parts included in KK-5001-1 Air Motor Repair Kit.
 + Parts included in KK-5074 Air Motor Adapter Kit.
 • Parts included in KK-5075 Agitator Shaft Assembly.
 (KK-5074 & KK-5075 Sold by ITW Automotive Refinishing only.)

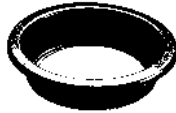


Binks 83C Continued...

ACCESSORIES

PROSPECTOR™ PRESSURE TANK STRAINERS FOR 2 GALLON TANKS

Prospector™ strainers are an economical way to remove foreign material from paint, stain, lacquer and coatings.



Inner Diameter	8.75" (222.25mm)
Outer Diameter	10.625" (269.87mm)
Height/Depth	2.625" (66.67mm)
Case Qty	20
PTS-2Gal-K20-200	
.....	200 micron (approx. 65 wire mesh)
PTS-2Gal-K20-400	
.....	400 micron (approx. 37 wire mesh)
PTS-2Gal-K20-600	
.....	600 micron (approx. 28 wire mesh)

SCRUBS® HAND CLEANER TOWELS

Scrubs® are a pre-moistened hand cleaner towel for painters. No water is needed.

29-3100
ITW Industrial Finishing
192218
ITW Automotive Refinishing



PT-78-K10 & PT-78-K60 LINER

A molded polyethylene tank liner to reduce tank clean up time. The liner is made of tough, durable, leakproof polyethylene and can be re-used. May be used with all materials that are compatible with polyethylene. (Available in packages of 10 and 80 only.)



QMS-79 OPTIONAL PROPELLER

Used with light viscosity or waterborne materials where over-agitation may be a problem.



PT-413 AIR REGULATOR KIT

Used to convert single regulated tanks (fluid only), to dual regulation (fluid and air). Used with portable air compressors or with air lines when no other means (air transformers or regulators) of air pressure regulation is available.



Ball Valves. VA-542 air inlet shut-off valve.

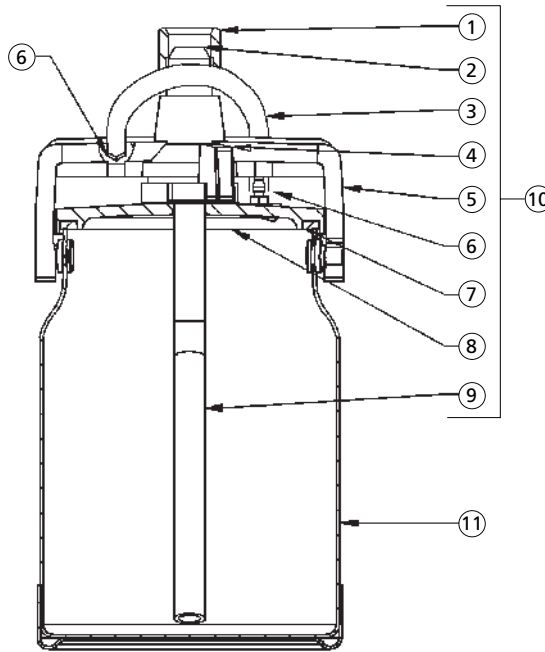
To install, replace the 83-4233 D.M. nipple with a bushing - 3/8(m) x 1/4(f) - purchased locally. Attach ball valve.



VA-540 fluid outlet shut-off valve.

To install, remove the AD-11 adapter. Using these valves will simplify attachment of air and fluid hoses.

Binks 81-800: 1 Qt. Drip Cup



NOTE
Keep tube and tube connectors clean of paint. Accumulation of paint in the tube or connectors can plug them and prevent the siphon action.

PARTS LIST

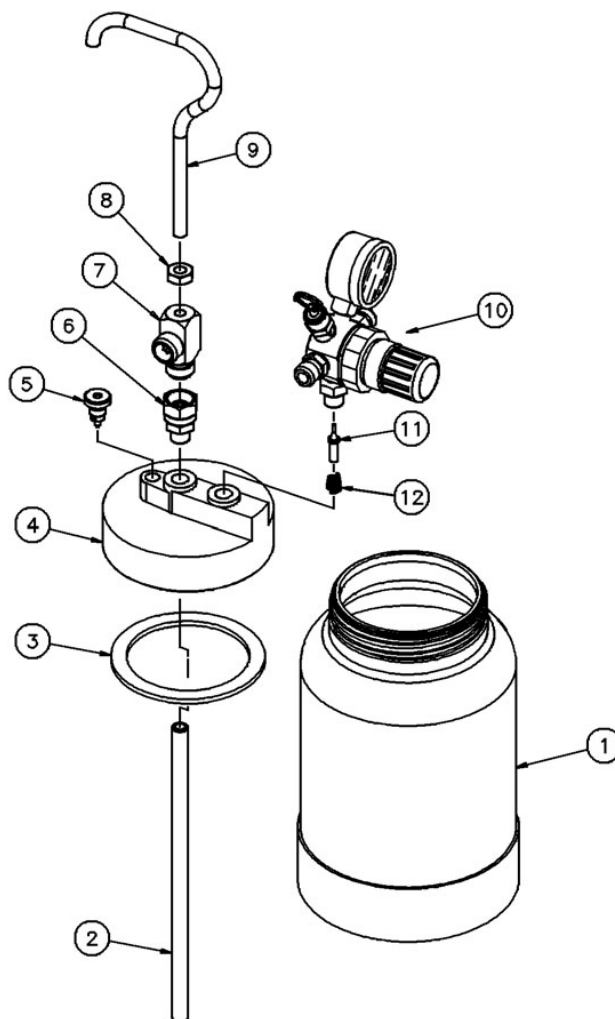
When ordering, please specify Part No.

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	TGC-13●	SWIVEL NUT.....	1	8	81-805	COVER MACHINING.....	1
2	TGC-12●	ADAPTER	1	9	TGC-11	TUBE (Fluid)	1
3	81-803▲	DRIP PROOF TUBE (Plus One Spare)....	2	10	81-801**	COVER ASSEMBLY	1
4	TSC-13●	LEVER	1	11	82-428-2	ONE QUART CUP ASSEMBLY.....	1
5	81-802	YOKE	1				
6	81-307●	CONNECTOR	2				
7	TGC-9*●	GASKET	1				

● Available in 81-806 Cup Cover Repair Kit.
▲ Available in quantity pack. Order 81-803-K5 (quantity of 5).
* Available in quantity pack. Order TGC-9-K5 (quantity of 5).
** 81-801 Cover Assembly can be purchased separately.



Binks 80-295: 2 Qt. Pressure Cup



PARTS LIST

When ordering, please specify Part No.

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	80-4	CUP, 2 QUART	1	10	85-440	AIR REGULATOR ASSEMBLY	1
2	80-34	TUBE, MATERIAL	1			(MAX. 50 PSI FLUID PRESSURE)	
3	80-11*	GASKET, TRI SEAL FOAM	1			(SEE PART SHEET 2817)	
4	80-297	COVER	1	11	80-267	VALVE	1
5	80-12	AIR RELEASE VALVE	1	12	60-7	SPRING	1
6	72-1022 ▲	CENTERPOST ASSEMBLY	1	13	80-45	OPTIONAL GASKET, LEATHER	—
7	80-33	OUTLET	1			(ORDER SEPARATELY)	
8	20-353	JAM NUT, 5/16-18	1	14	85-441	2ND REGULATOR KIT	—
9	83-1899	HANDLE	1			(MAX. 50 PSI FOR ATOMIZING AIR CONTROL) (ORDER SEPARATELY)	

* Available in quantity pack. For Tri-Seal Gaskets, order 80-11-5 (qty. of 5).

▲ Available from Industrial Finishing distributors only.

1-800-CLEMTEX
www.clemtex.com

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Fax (361) 882-6029

Dallas Branch
4770 Gretna
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Degrees of Blast Cleanliness
Click here for visuals and definitions

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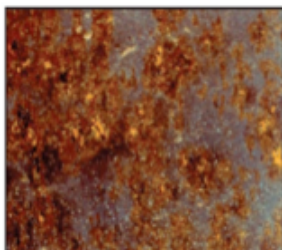
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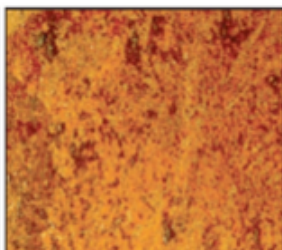
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Degrees of Blast Cleanliness

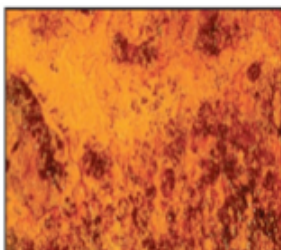
Grade A



Grade B



Grade C



Condition of Steel

Grade A – Steel where mill scale has started to flake and light rusting occurs

Grade B – Steel where all mill scale has flaked off and complete rusting has taken place

Grade C – Steel where pitting and complete rusting has occurred

Brush Off Blast

Definition: A Brush-Off Blast Cleaned Surface Finish is defined as one from which all oil, grease, dirt, rust scale, loose mill scale, loose rust and loose paint or coatings are removed completely but tight mill scale and tightly adhered rust, paint and coatings are permitted to remain provided that all mill scale and rust have been exposed to the abrasive blast pattern sufficiently to expose numerous flecks of the underlying metal fairly uniformly distributed over the entire surface.

NACE – 4 SSPC-SP-7 SA - 1

Commercial Blast

Definition: A Commercial Blast Cleaned Surface Finish is defined as one from which all oil, grease, dirt, rust scale and foreign matter have been completely removed from the surface and all rust, mill scale and old paint have been completely removed except for slight shadows, streaks, or discolorations caused by rust stain, mill scale oxides or slight, tight residues of paint or coating that may remain; if the surface is pitted, slight residues of rust or paint may be found in the bottom of pits; at least two-thirds of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discoloration, slight staining or tight residues mentioned above. **NACE – 3 SSPC-SP-6 SA - 2**

Near White Metal Blast

Definition: A Near-White Blast Cleaned Surface Finish is defined as one from which all oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint or other foreign matter have been completely removed from the surface except for very light shadows, very slight streaks or slight discolorations caused by rust stain, mill scale oxides, or light, tight residues of paint or coating that may remain. At least 95 percent of each square inch of surface area shall be free of all visible residues, and the remainder shall be limited to the light discoloration mentioned above.

NACE -2 SSPC-SP-10 SA – 2 ½

White Metal Blast

Definition: A White Metal Blast Cleaned Surface Finish is defined as a surface with a gray-white, uniform metallic color, slightly roughened to form a suitable anchor pattern for coatings. The surface, when viewed without magnification, shall be free of all oil, grease, dirt, visible mill scale, rust, corrosion products, oxides, paint, or any other foreign matter.

NACE – 1 SSPC-SP-5 SA - 3

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