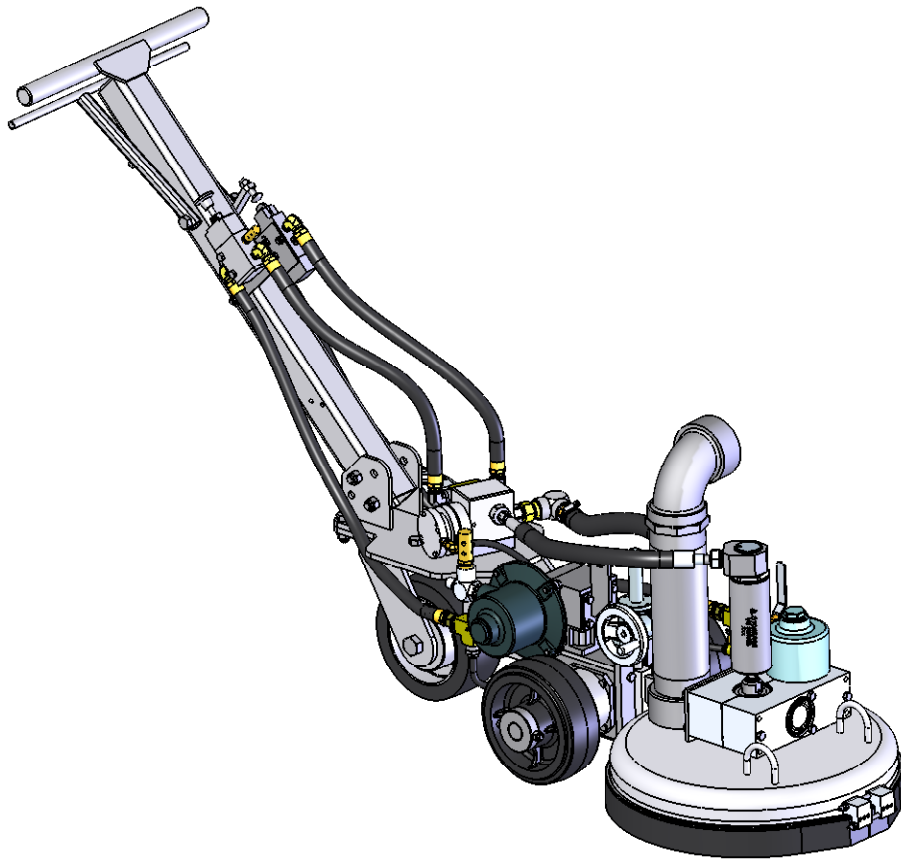


ULTRA HIGH PRESSURE DECK BLASTER

DB-GD or JS

OPERATION AND MAINTENANCE MANUAL



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1.0 INTRODUCTION

This manual was prepared to provide the operator with the basic information needed to operate and service this equipment. The operating recommendations in the manual will ensure that you receive satisfactory performance. All operating personnel responsible for the care of this equipment should be familiar with the information in this manual.

If you have any questions or problems with this equipment, please contact the distributor you obtained the product from, or the manufacturer:

StoneAge, Inc.
466 S. Skylane Drive
Durango, CO 81303
970-259-2869 Phone 970-259-2868 Fax
www.stoneagetools.com

2.0 SAFETY WARNING

Operations with this equipment can be potentially dangerous if caution is not exercised prior to and during tool use. Please read and follow all of these instructions, in addition to the guidelines in the WJTA Recommended Practices handbook.

- 1.1 Only competent and trained persons should operate this equipment.
- 1.2 Do not exceed the maximum operating pressure specified for any component in a system.
- 1.3 This equipment should always be used with an operator controlled dump mechanism to release the high pressure water.
- 1.4 The immediate work area should be marked off to keep out untrained persons.
- 1.5 All personnel in the area should wear eye and hearing protection, as well as other protective clothing in accordance with specific conditions.
- 1.6 Jet thrust should be less than the weight of the machine. Care must be used in selecting flow rate (Nozzle Size).
- 1.7 Inspect the equipment for visible signs of deterioration, damage, or improper assembly. Do not operate until repaired. Make sure all threaded connections are tight and leak free.
- 1.8 Check to see that all control functions work properly before going to high pressure.
- 1.9 The person operating the equipment should have direct control of the dump system.

3.0 DESCRIPTION

The ultra high pressure **Deck Blaster** is an air-powered, self-propelled surface preparation machine. The water exits through the nozzles as high velocity jets which are capable of cutting most paint, scale, residues, membranes and chemical deposits. The tool is rated for 6 gpm at operating pressures up to 40,000 psi, but more flow may be used if additional weight is added to the dome area to keep it from becoming tipsy and unstable. **Note: During the first half-hour of use, the rotation speed should not be run at maximum, but should be limited to 300-500 rpm, allowing the swivel seal and shaft to "break-in."**

AIR SUPPLY

The air supply should be capable of producing 50 to 80 cfm at 80 psi. The air line from the compressor to the machine should be at least 3/4 inch. To operate the machine at full speeds (rotation and feed) the air supply will need to be 80 cfm. Lower volumes will result in slower maximum speeds.

WATER SUPPLY

A 10-micron water filter upstream from the pump is recommended. Flush all hoses before use. Keep the ends covered when not connected.

WATER SWIVEL

The UH high pressure water swivel is rated for 40,000 psi maximum operating pressure. When connecting to the 90 degree inlet, make sure that the threaded port is lined up with the cone port of the inlet. The UH has a high pressure seal which should be replaced when it begins to leak continuously at operating pressure. The swivel should be greased after 40 to 80 hours of use. Keep the end nut and all connections tight. Watch for leaks and shut down to repair. Please refer to the appendix for further detailed information on the swivel.

NOZZLE HEAD

The bar head used on this assembly has 8 ports. Depending on the application, it may be better to plug some ports and use fewer, larger nozzles (thick, heavy deposits) or to use more, smaller nozzles in all ports (thin coatings, less damage to substrate.) The standoff distance can be adjusted by using the dome height adjustment.

PRESSURE DUMP

The air actuated pressure dump valve is controlled by an air valve mounted on the push handle, and is closed by lifting up on the dump handle bar. The exhausted flow is routed into the dome. The DB 025 valve is manufactured by Jetstream, of Houston, TX; part number 53620X; the DB 022 valve is manufactured by Gardner Denver of Houston, TX part number 77-700314-AIR2.

SELF PROPULSION

The self-propulsion drive is actuated by the push-pull knob on the handle. When engaged, both drive wheels are driven. Disengage the drive for easy turning or transport. The rate of advance can be controlled by adjusting the needle valve on the exhaust of the drive air motor.

VACUUM

Vacuum connection is made to the 3" aluminum elbow on the dome. The skirt should be in contact with the ground for best results.

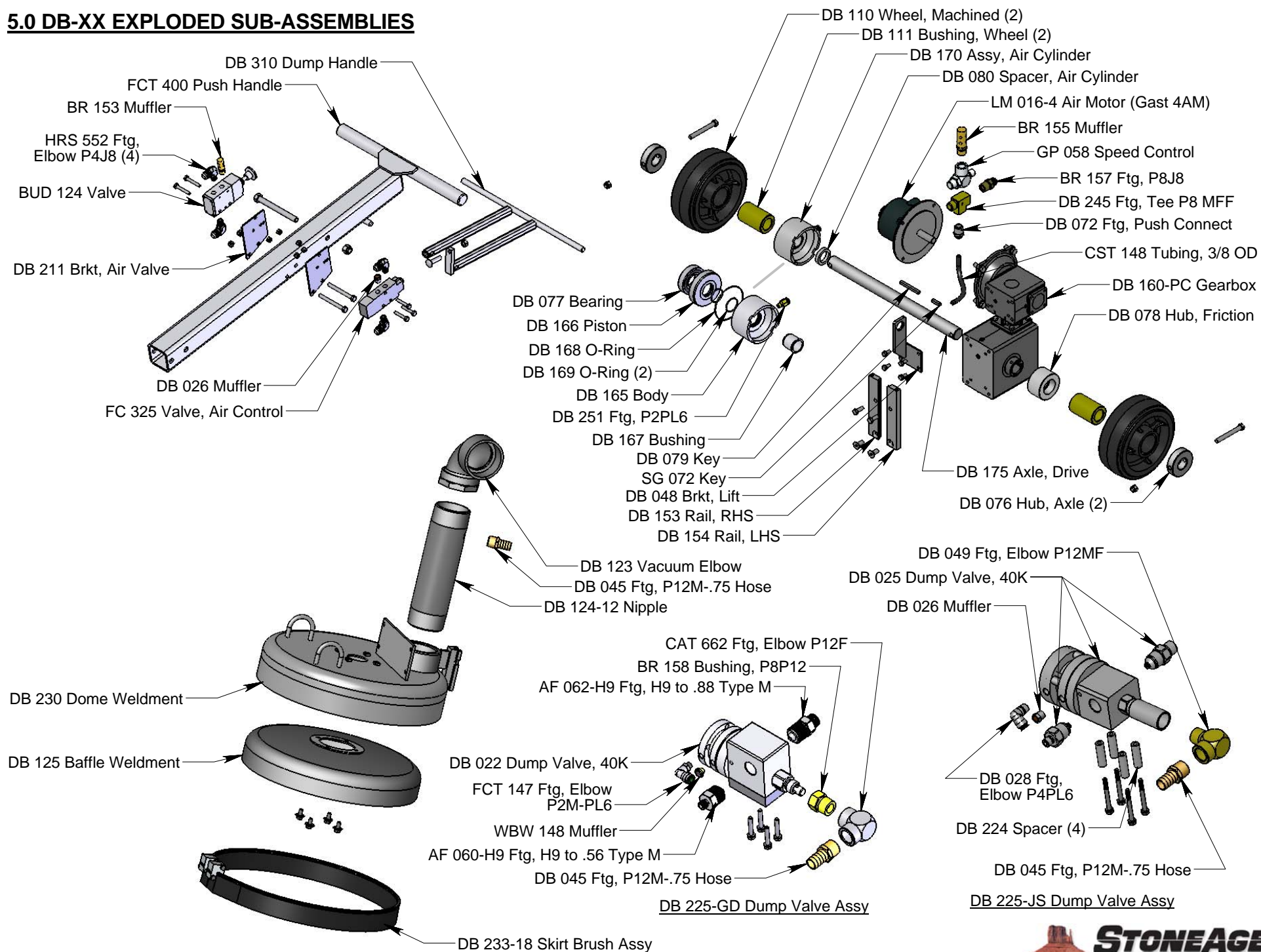
4.0 PARTS LIST

BR 153	Muffler, P4	1
BR 155	Muffler, P8	2
BR 157	Fitting, P8J8	2
BUD 124	Valve, 3-Way	1
CB 114	Fitting, Inlet	1
CB 116	Nipple, P8	1
CST 148	Tubing, 3/8 OD Nylon	2 FT
DB 026	Muffler, P4	1
DB 045	Fitting, P12M HB12	1
DB 048	Bracket, Lift	1
DB 072	Fitting, P8M PL6	1
DB 076	Hub, Axle	2
DB 078	Hub, Friction	1
DB 079	Key, Drive Axle	1
DB 080	Spacer, Air Cylinder	1
DB 096	Hose, High Pressure	1
DB 103 H9S6-14	Bar Head	1
DB 110	Wheel, Machined	2
DB 111	Bushing, Wheel	2
DB 123	Elbow, Vacuum	1
DB 124-12	Nipple, Vacuum	1
DB 125	Weldment, Baffle	1
DB 153	Rail, RHS	1
DB 154	Rail, LHS	1
DB 160-PC	Gearbox	1
DB 170	Assy, Air Cylinder	1
DB 077	Bearing	1
DB 165	Body	1
DB 166	Piston	1
DB 167	Bushing	1
DB 168	O-Ring	1
DB 169	O-Ring	2
DB 251	Fitting, P2PL6	1
DB 175	Axle, Drive	1
DB 190	Chassis	1
DB 211	Bracket, Air Valve	2
DB 225-GD	Assy, Dump Valve GD	1*
AF 060-H9	Fitting, H9-.56 Type M	1
AF 062-H9	Fitting, H9-.88 Type M	1
BR 158	Bushing, P8P12	1
CAT 662	Fitting, Elbow P12F	1
DB 022	Dump Valve, Gardner Denver	1
DB 045	Fitting, P12M-HB12	1
FCT 147	Fitting, Elbow P2M PL6	1
WBW 148	Muffler, P2	1
DB 225-JS	Assy, Dump Valve JS	1*
DB 025	Dump Valve, Jetstream	1
DB 026	Muffler, P4	1
DB 028	Fitting, P4M PL6	1
DB 045	Fitting, P12M-HB12	1
DB 049	Fitting, Elbow P12MF	1
DB 224	Spacer	4
DB 230	Weldment, Dome	1
DB 233-18	Assy, Skirt Brush	1
DB 240	Screw Jack	1
DB 242	Dowel	1
DB 245	Fitting, Tee P8MFF	2
DB 246	Fitting, Tee P8FMF	1
DB 250	Fitting, Elbow P8 PL6	1
DB 310	Handle, Dump	1
FC 325	Valve, Air Control	1
FCT 011	Wheel, Swivel Caster	1
FCT 400	Weldment, Push Handle	1

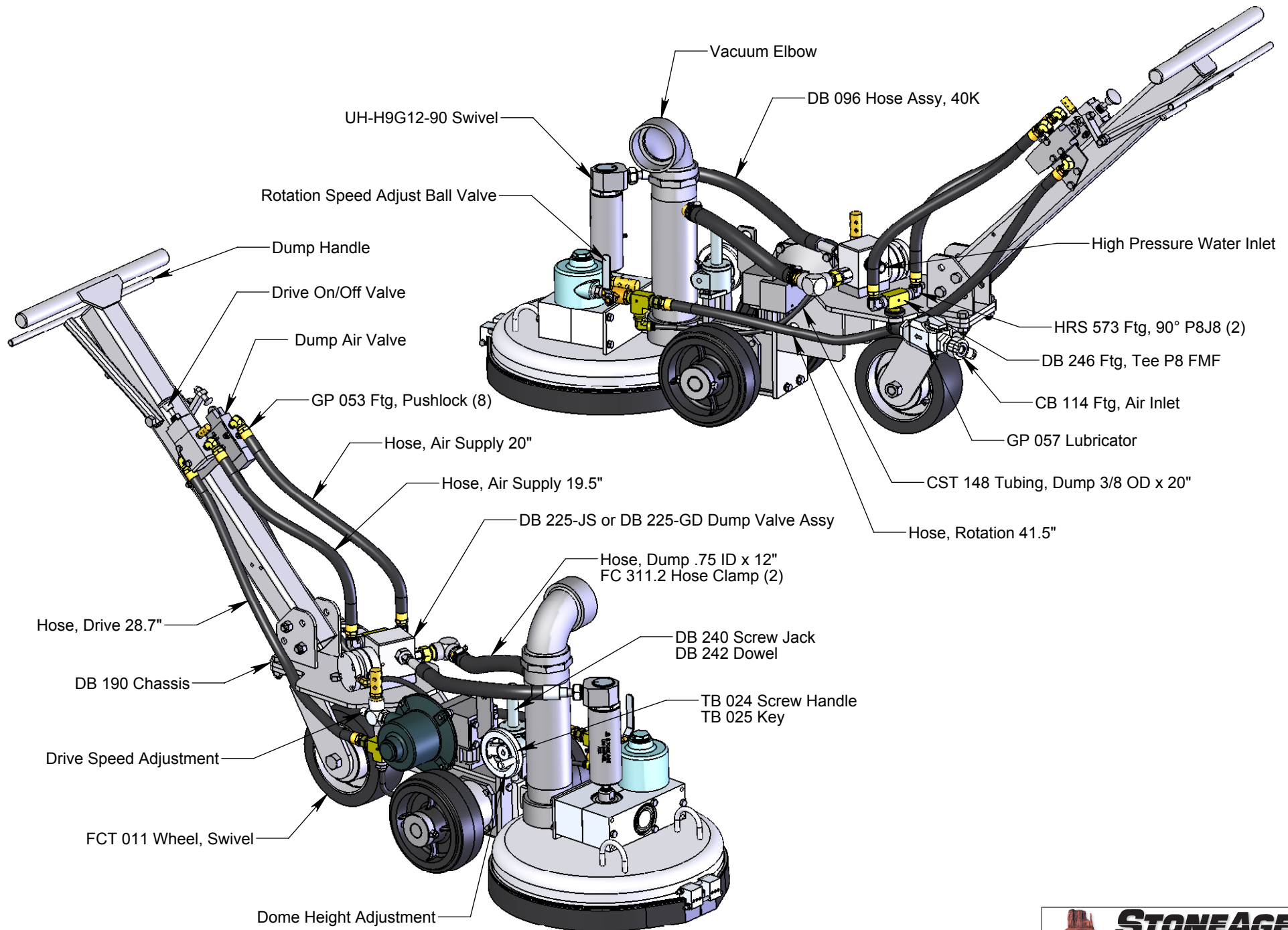
GH 113	Set Screw	1
GP 053	Fitting, Pushlock J8 HB8	8
GP 053.1	Pushlock Hose	10 FT
GP 057	Lubricator	1
GP 058	Speed Control	1
HRS 446.1	Hose Clamp	2
HRS 540	Ball Valve	1
HRS 552	Fitting, Elbow P4J8	4
HRS 555	Hose, Dump	1 FT
HRS 573	Fitting, Elbow P8J8	2
LM 016-4	Air Motor	1
SG 072	Key, Gearbox	1
TB 024	Screw Handle	1
TB 025	Key, Screw Handle	1
UH-40	Air Belt Drive assembly	1 (see UH-40 manual for parts breakdown)

*Indicates optional choice

5.0 DB-XX EXPLODED SUB-ASSEMBLIES



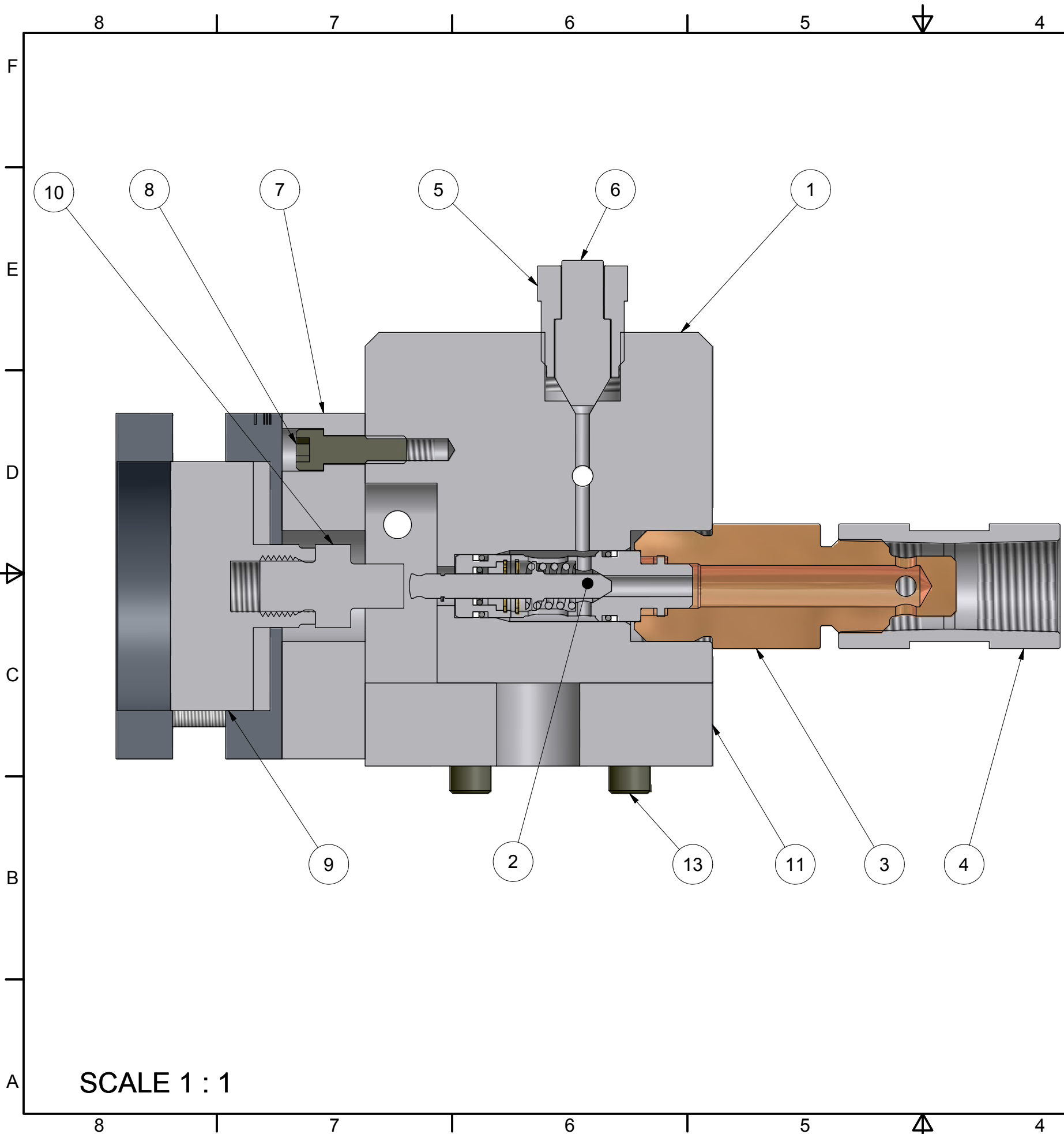
5.1 DB-XX DESCRIPTION & ASSEMBLY VIEWS



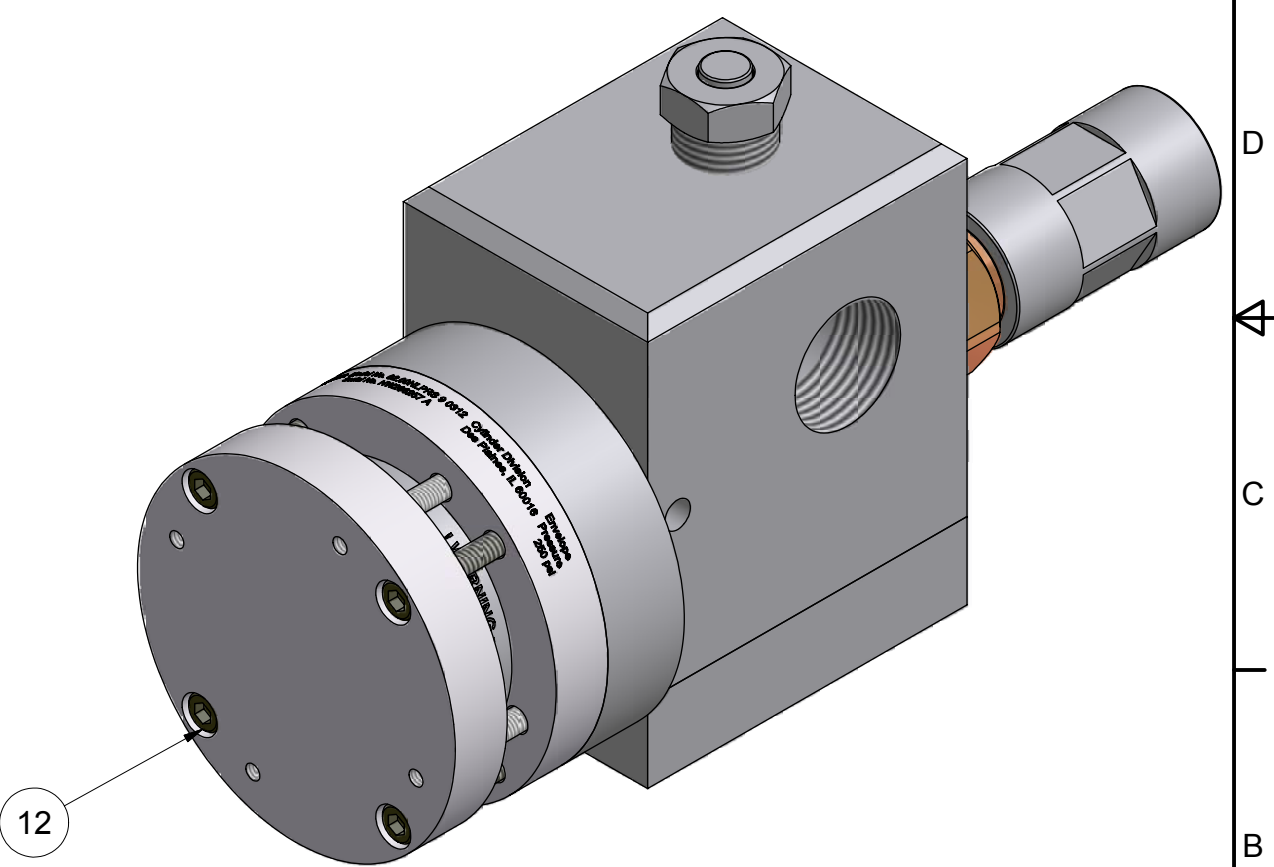
6.0 LIMITED WARRANTY

StoneAge, Inc. warrants to the extent herein provided the products of its own manufacture against defects in material and workmanship under normal use and service for which the products were designed for a period of six months after shipment from the factory. If such products should fail through defect in workmanship or material and specific written notice of failure is made within six months after date of shipment from factory, StoneAge, Inc. will either repair or replace any such items, F.O.B. its factory without charge. StoneAge, Inc. shall not be liable for expense incurred in repairs or alterations made outside the factory without the proper and prior authorization. StoneAge, Inc. shall have the option of requiring the return of the defective products to its factory, with transportation charges prepaid, to establish the claim. StoneAge, Inc. shall in no event be held liable for damages or delay resulting from or arising out of defective products nor for consequential damages or otherwise except for repair or replacement of items of defective material or workmanship aforesaid.

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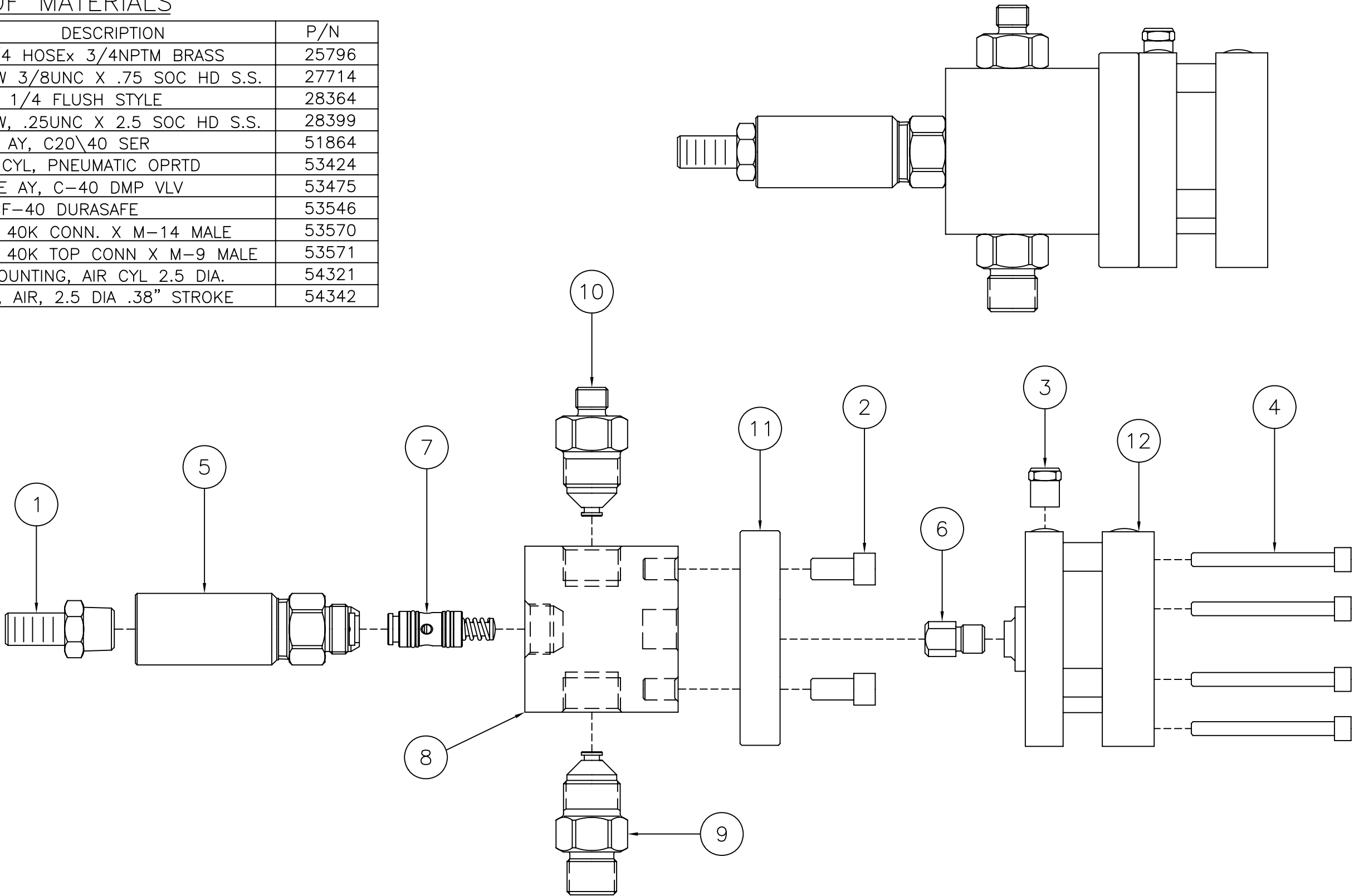
Item	QTY	Part No.	Description
0	0	77-700314-AIR2	FOOT GUN ASSY. 40K DUMP STYLE AIR, NO BASE
1	1	77-700305-AIR	BLOCK. 40K AIR OPERATED DUMP TYPE FOOT GUN
2	1	77-700315	CARTRIDGE. 40K HG/FG/DUMP TYPE TUMBLE BOX VALVE
3	1	77-700304	DUMP TUBE ADAPTER. 40K DUMP
4	1	77-700312	DUMP TUBE. FG (40K)
5	1	77-513048	GLAND NUT. 3/8 HP
6	1	77-513050	PLUG. 3/8 HP
7	1	77-700155	ACTUATOR ADAPTER PLATE. 15K FG AIR
8	3	16-15148	SCREW, SHC, SS, 1/4-20 X 3/4
9	1	77-408705	VALVE AIR ACTUATOR
10	1	77-700156	ACTUATOR ROD. 15K/20K FG AIR
11	1	77-700163	SPACER BLOCK. AIR OPERATED FG FOOT GUN
12	4	77-408707	SCREW. 10-24 X 1 1/2 SHCS SS
13	4	16-79012	1/4 -20 SHCS 1-1/8 LONG SS.




Last revision: ITEM 10, ACTUATOR ROD WAS 77-700651				
Proprietary Notice: This design concept is the exclusive property of GDWJSI. Reproduction in part or whole is prohibited without prior consent of GDWJSI.	Default Tolerances: .XXX +/- .005 .XX +/- .010 .X +/- .015	GARDNER DENVER WATER JETTING SYSTEMS INC. 12300 N. Houston Rosslyn, Houston, TX. 77086 (281) 448-5800		
		Design By: P. GOLDSMITH	FOOT GUN ASSY 40K DUMP STYLE AIR, NO BASE	
		Drawn: AXP1108		
		Tolerances and Practices per Document: D98-60001	Approve:	P/N: 77-700314-AIR2
	Weight LB	Cage Code 29731	Date: 2/17/2006	Sheet 1 of 1

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	P/N
1	1	BARB, 3/4 HOSEx 3/4NPTM BRASS	25796
2	2	CAPSCREW 3/8UNC X .75 SOC HD S.S.	27714
3	1	MUFFLER, 1/4 FLUSH STYLE	28364
4	4	CAPSCREW, .25UNC X 2.5 SOC HD S.S.	28399
5	1	DIFFUSER AY, C20\40 SER	51864
6	1	PUSHER, CYL, PNEUMATIC OPRTD	53424
7	1	CARTRIDGE AY, C-40 DMP VLV	53475
8	1	BODY, DCF-40 DURASAFE	53546
9	1	ADAPTER, 40K CONN. X M-14 MALE	53570
10	1	ADAPTER, 40K TOP CONN X M-9 MALE	53571
11	1	PLATE, MOUNTING, AIR CYL 2.5 DIA.	54321
12	1	CYLINDER, AIR, 2.5 DIA .38" STROKE	54342



GEOMETRIC TOLERANCE SYMBOLS (Ref. ANSI Y14.5M-1982)				UNSPECIFIED TOLERANCES		MATERIAL		<div>Jetstream®</div> <div>Subsidiary of Federal Signal Corporation</div>						
CIRCULARITY	○	TRUE POSITION	⊕	.X	±.030	Machining	SEE BOM	TITLE						
CONCENTRICITY	◎	RUNOUT(CIRCULAR)	↗	.XX	±.015	Fabrication								
PARALLELISM	//	RUNOUT(TOTAL)	↗	.XXX	±.005	Mach Finish	HEAT TREAT	VALVE AY, AIR OPERATED, DVRT 40K MAX						
PERPENDICULARITY	⊥	MAX.MAT'L COND.	Ⓜ	Fractional ±1/16										
FLATNESS	▭	DIAMETER	∅	Machining Concentricity: .005 TIR			FINISH	DRN		JW	DATE	9/28/06	DWG/PART NO.	REV
This document and the contents herein may not be displayed or otherwise used without the express written consent of Jetstream of Houston Inc.				THIRD ANGLE PROJECTION				APP		SCALE		1/2	53620X	