



## BP-3820S 3/8" HIGH SPEED STRAIGHT DRILL

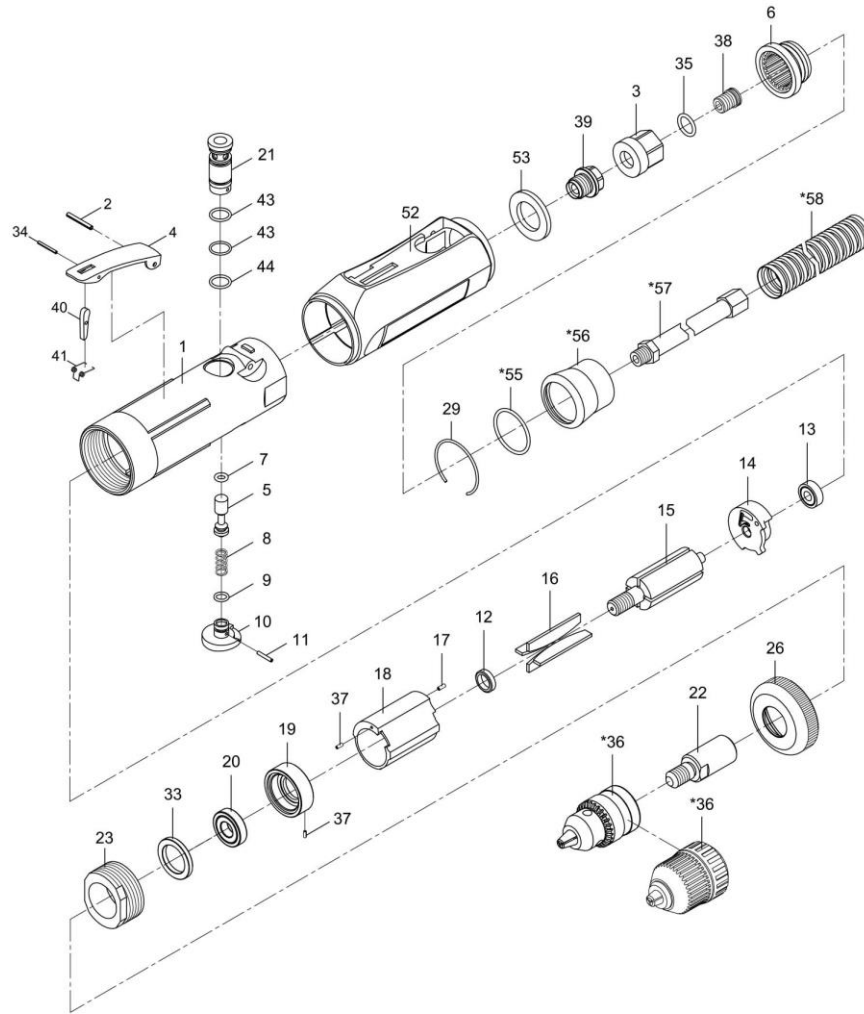


Actual product may be slightly different from the product described herein.

### Tool Specification:

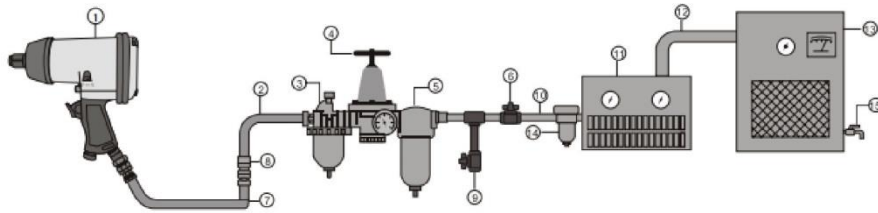
Chuck Size Inch:	3/8" (10mm)
Free Speed :	20,000 RPM
Air Inlet:	1/4" NPT
Hose Size:	3/8" I.D.
Air Pressure:	90 P.S.I.
Average Air Consumption:	4 CFM
Weight:	0.7 KG

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Index No.	Parts No.	Description	Index No.	Parts No.	Description
1	BP-3820S01	Motor Housing	23	BP-3820S23	Clamp Nut
2	BP-3820S02	Spring Pin (3x24)	26	BP-3820S26	Housing Cap
3	BP-3820S03	Air Inlet	29	BP-3820S29	Retainer Ring
4	BP-3820S04	Throttle Lever	33	BP-3820S33	Washer
5	BP-3820S05	Valve Shaft	34	BP-3820S34	Spring Pin (2x18)
6	BP-3820S06	Exhaust Diffuser	35	BP-3820S35	O-Ring (7.5x1.5)
7	BP-3820S07	O-Ring (3.9x2.2)	*36	BP-3820S36	Chuck (3/8")
8	BP-3820S08	Valve Spring		BP-3820S36-01	Keyless Chuck (3/8")
9	BP-3820S09	O-Ring (6.5x1.5)	37	BP-3820S37	Spring Pin (2) (1.5x4)
10	BP-3820S10	Air Regulator Knob	38	BP-3820S38	Screw
11	BP-3820S11	Spring Pin (2x12)	39	BP-3820S39	Fixed Shaft
12	BP-3820S12	Rotor Bush	40	BP-3820S40	Safety Bar
13	BP-3820S13	Ball Bearing (696zz)	41	BP-3820S41	Spring
14	BP-3820S14	Rear End Plate	43	BP-3820S43	O-Ring (2) (10.7x1.5)
15	BP-3820S15	Rotor	44	BP-3820S44	O-Ring (11.4x1.25)
16	BP-3820S16	Rotor Blade (4)	52	BP-3820S52	Rubber Grip
17	BP-3820S17	Spring Pin (1.5x6)	53	BP-3820S53	Damping Material
18	BP-3820S18	Cylinder	*55	BP-3820S55	O-Ring (25.7x2.62)
19	BP-3820S19	Front End Plate	*56	BP-3820S56	Clamp
20	BP-3820S20	Ball Bearing (6000zz)	*57	BP-3820S57	Hose
21	BP-3820S21	Bushing	*58	BP-3820S58	Exhaust Hose
22	BP-3820S22	Spindle			

## AIR SUPPLY SETUP AND CONNECTION



### **AIR SYSTEM LAYOUT:**

- |                         |                                     |                                   |
|-------------------------|-------------------------------------|-----------------------------------|
| 1. Air Tool             | 6. Shut Off Valve                   | 11. Air Dryer                     |
| 2. Air Hose 3/8" (I.D.) | 7. Whip Hose                        | 12. 1" Or Larger Pipe And Fitting |
| 3. Oiler                | 8. Coupler Body And Connector       | 13. Air Compressor                |
| 4. Pressure Regulator   | 9. Drain Daily                      | 14. Auto Drain                    |
| 5. Filter               | 10. 1/2" Or Larger Pipe And Fitting | 15. Drain Daily                   |

1. For optimal results you should incorporate a regulator, oiler and an inline filter.
2. If you are not using an automatic lubricating system, before operating the tool, add a few drops of Pneumatic Tool Oil to the air-line connection. Add more after each hour of constant using.
3. Do not exceed maximum air pressure of 90 PSI/ 6.2 bar or as stated on tool nameplate.

To prevent serious injury, read and understand all warning and instructions before use.

## **SAFETY RULES**



**READ, UNDERSTAND AND KEEP THESE INSTRUCTIONS,**  
**WARNING** Failure to follow all instructions listed below may result in serious injury.

### WORK AREA HAZARD & PERSONAL SAFETY

1. Keep your work area clean and well lit.
2. Do not operate power tools in explosive atmospheres, such as in the presence of combustible liquid, gases or dust. Power tools create sparks which may ignite the dust or fumes.
3. Disconnect tool before performing service or when not in use.
4. High sound levels can cause permanent hearing loss. Use hearing protection during operation.
5. Maintain a balanced body position and secure footing.
6. Slips/Trips/Falls are a major cause of serious injury or death. Be aware of excess hose left on the working floor.
7. Repetitive work motions, awkward positions and exposure to vibration can be harmful to hands and arms. If numbness, tingling, pain or whitening of the skin occurs, stop using the tool and consult a physician.
8. Always wear impact-resistant eye and face protection when operating, repairing or performing maintenance of the tool or while changing tool accessories.

### TOOL USE AND CARE

1. Use support handle or other method to secure and support the work piece to a stable

platform.

2. Do not force the tool. Use the correct tool for your application. Using the correct tool which is specifically designed for a select job will provide better tool performance and make the job easier.
3. Disconnect the air supply before making any adjustments, changing accessories, or storing the tool. Always disconnect the air supply before performing any inspection, maintenance or tool cleaning.
4. Use only accessories recommended by the manufacturer for your model.
5. When using a tool that is designed to have a guard, the guard should be in place to provide protection from flying debris, grinding residue or sparks.
6. Do not leave the tool unattended when it is connected to an air supply.
7. Use compressed air only.

### **OPERATING INSTRUCTIONS**

Always shut off air supply, relieve hose of air pressure and disconnect tool from air supply when changing accessories. Hold the tool correctly: be ready to counteract sudden movements, particularly at drill bit breakthrough. The drill bit can suddenly bind and cause the workpiece or tool to rotate, causing arm or shoulder injuries. Side handles are commended for straight drills with a chuck capacity larger than 6.5mm (1/4 inch), or if the torque reaction may exceed 4Nm (3 lbf.ft). Side handles are commended for pistol-grip drills with a chuck capacity larger than 10mm (3/8 inch), or if the torque reaction may exceed 10Nm (7.5 lbf.ft).

### **LUBRICATION & MAINTENANCE**

Lubricate the tool daily with a high grade of air tool oil. If no air line oiler is used, run a teaspoon of oil through the tool. The oil can be squirted into the tool air inlet, or into the hose at the nearest connection to the air supply, prior to operating the tool. A rust inhibitive oil is acceptable for air tools.



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