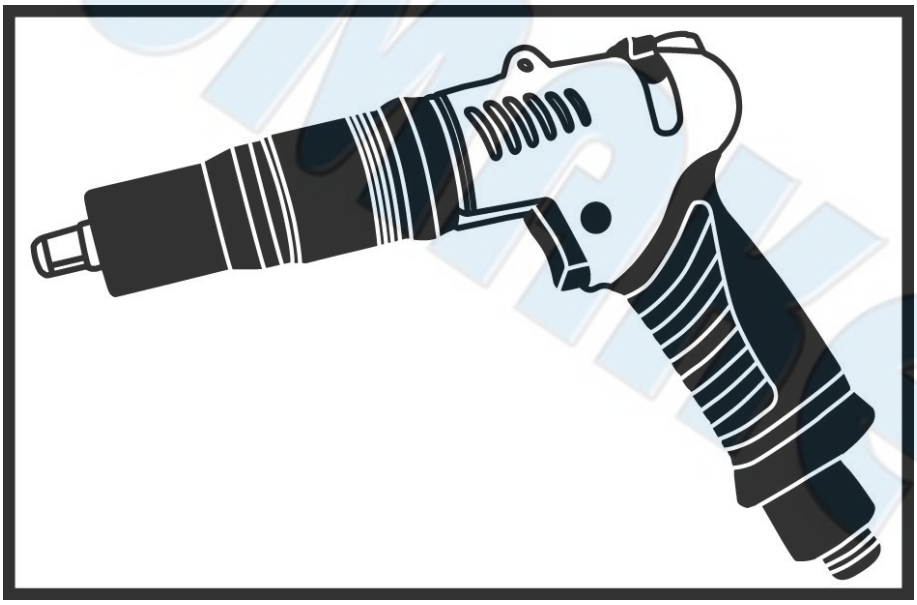
SUMAKE *PNEUMATIC TOOLS*



High Torque Oil Free Pistol Handle Trigger Start Shut Off Composite Wrench-3/8"

Test result according to EN ISO 11148-6:2012

MODEL	**Vibration** EN ISO 28927-2	**Noise :** EN ISO 15744		**Safety Instructions** ⚠**Warning**
		Sound pressure level	Sound power level	
HWPFH250	No Load: 0.5 m/s^2	No Load: 79 dB(A)	No Load: 90 dB(A)	1- Read this manual and understand all safety instructions before operation the tool. 2- Wear an approved ear-protector and gloves while operating tool.
HWPFH350	No Load: 0.9 m/s^2	No Load: 77 dB(A)	No Load: 88 dB(A)	
HWPFH400	No Load: 0.3 m/s^2	No Load: 79 dB(A)	No Load: 90 dB(A)	
	Uncertainty K= 1.5 m/s²	Uncertainty K= 3dB		

HWPFH250(350)(400)-S-2406C-MIF

SUMAKE INDUSTRIAL CO., LTD
4F,NO.351,Yangguang St.,Neihu District TAIPEI, TAIWAN, ZIP:114-91

HWPFH-SERIES AIR SCREWDRIVER OPERATION MANUAL

For safety use, Please Follow the instructions. The operation without your local regulations may cause serious injury. Read thoroughly and understand this instruction manual and keep this within reach for future reference.

CLASSIFIED CAPACITY SPECIFICATIONS

Model	Speed	Weight	Length	Diameter	Noise	Air Pressure	Min Air hose Bore	Air Consumption	Torque Range	Standard Deviation	Fastening Capacity	
											Machine Screw	Tapping Screw
	r.p.m.	g	mm	mm	±2dBA	Kg/cm²	mm	m^3/min	Kgf-cm	%		
HWPFH250	430	1100	220	42	78	6.0	8.0	0.55	30-250	±3	M5.0-M10.0	M4.0-M8.0
HWPFH350	300	1100	220	42	78	6.0	8.0	0.55	70-350	±3	M6.8-M11.7	M5.3-M9.5
HWPFH400	300	1250	220	42	78	6.0	8.0	0.55	50-400	±3	M6.0-M11.8	M4.7-M9.7

for 3/8"(Square)

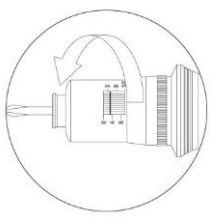
* Note : Performance specification @ 6.0kg/cm² (90psi). Output torque adjusts to 50% of maximum rated torque.

FUNCTION INSTRUCTION

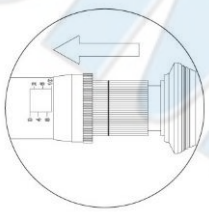
1. **Bit slide sleeve Pull-type design**
   Operator can change rapidly the bit by pulling the Bit slide sleeve and this Pull-type design also increase the safety.
2. **Torque cover**
   To prevent improper torque adjustment by operator, this up-to-the-date design fixes torque at same standard. Further, for this special structure design, the torque cover is necessary for tool during operation. Due to the safety consideration and to prevent the tool be broken by any impacting, please operate tool as per this instruction manual and note it is prohibitive to operate tool without torque cover.
3. **Valve reverse switch**
   With this friendly Valve reverse switch design, operator can change the motor rotation direction rapidly by adjusting only the Valve reverse switch.

TOOL OPERATION

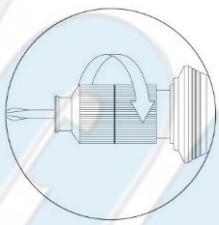
1 Check carefully first if the bit fixed in proper position with Pull-type Bit slide sleeve.
2 Confirm if the air hose or air pipe is clean and dry.
3 Make sure the air hose or air pipe is well connected with air screwdriver.
4 Pull the Bit slide sleeve for inserting the bit or for rapidly bit changing. Due to the safety consideration, please make sure the bit is well fixed on tool before operating.
5 Torque Adjustment
Refer to the below drawing instruction: Release first the Torque cover for torque adjustment, then tighten necessarily the torque cover before operating. For better Torque management, there are also color rings for torque management.



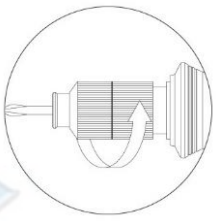
1.Release Torque Cover



2.Drop Torque cover out



3.Tighten to the right: increase torque.



4.Loosen to the left: decrease torque

6 Push Valve reverse switch for instantly changing of air motor rotation direction. Please stop first the operation then reverse patented both way valve switch to change the rotation direction.
7 Air motor will automatically stop when the load reaches at the pre-set torque.
8 Trigger-to-Start system eliminates troublesome to press push-to-Start.

Caution : Improper operation may damage the tool.

AIR SUPPLY

1 Air tools are adversely affected by moisture. Since air from compressor contains much moisture and dust, it is desirable to provide a filter in the pipeline to remove such undesirable elements. Also take the drain out from air tank every day.

2 When using brand-new air hose or air pipe, blow and clean the air hose or pipe inside before installation.

3 Keep air hose or air pipe inside clean to prevent airdrop problem caused by lots of drain and dust accumulated, either to avoid possibly inside diameter smaller problem after long term usage.

4 When disconnect air hose from air tool during operation, do not drop air hose end to the floor as dust or other element may get into air hose.

5 Use air regulator to keep stable air pressure at 6.0kgf-cm^2 (80~90 psi) at the toll. It is important to get proper air pressure at the toll.

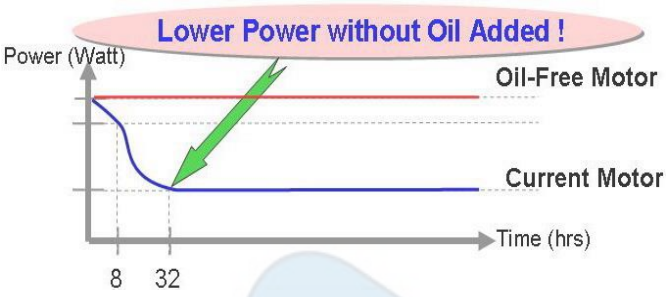
6 With high quality Oil-free motor, any moisture or lubrication injection may damage the air screwdriver, please keep tool dry and avoid oil based substances exposing to the products. For avoiding moisture affection, using Air Dryer is necessary in wet area or under moist weather.

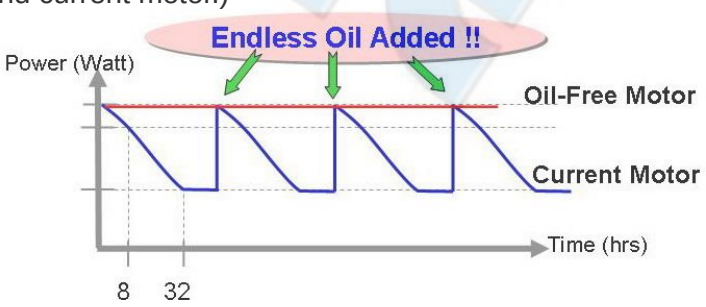
TOOL ADVANTAGE

1 High quality Oil-free Motor

High quality Oil-free Motor is our new design used on high technologic tool. At the beginning operation, the power of Oil-free motor keeps stable at it's top capability without any oil injection, but the power of Current motor decreases till it's lowest capability after 32 hours operating unless oil adding. The high technologic Oil-free motor increases 60% torque and keeps noise as standard 70/72dB which prevents operator and environment from noise damaging and accords with industrial classified tool standard.

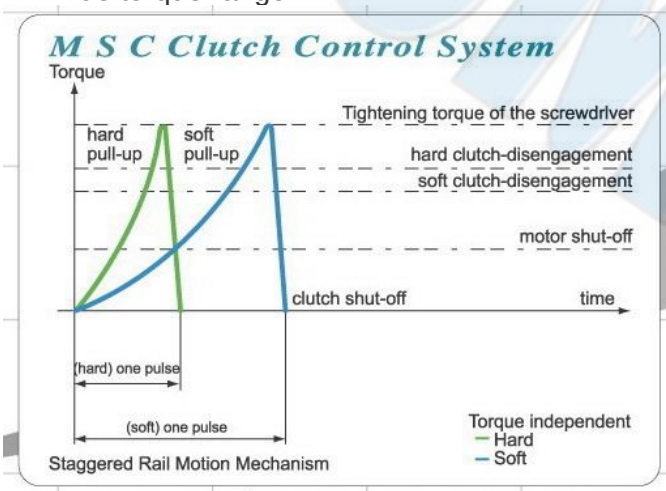
(Please refer to the below table about Oil-free and current motor.)



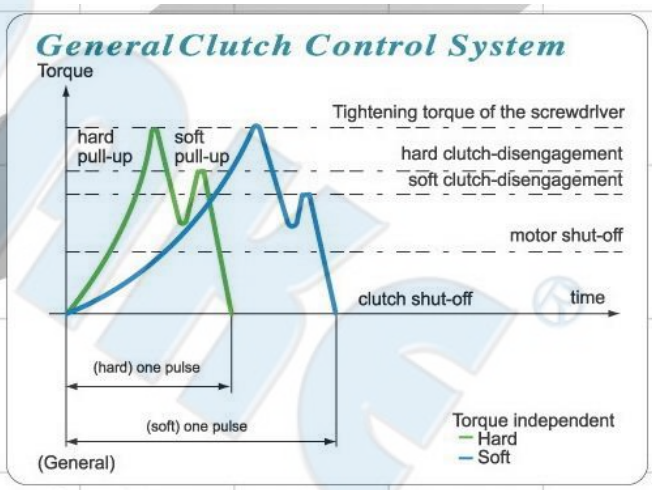


2 CPK value＞1.33

With 3rd generation patented cross-path MSC clutch and special mechanical structure, this air screwdriver accords with ISO5393 B class CPK value Torque deviation request (CPK value＞1.33). This patented one pulse clutch system has also the merits of low vibration(less than 2.5ms), low torque deviation(±3%) and wide torque range.



We recommend to use **Flex** air screwdrivers with one pulse clutch torque control system(with immediate automatic shut-off)which has a vibration level of less than 2.5ms^2.



Any(General)airscrewdrivers which uses two or three "pulse clutch" torque control(and similar)generates vibrations over 2.5ms^2.

3 **Push-start system**
Push-start system is more convenient and with low standard deviation character.

4 **All new patented mechanical design and comfort grip material**
This new patented mechanical design is 20% lighter than other brand. With the unity sharping composite grip and best balance design made by thermoplastic elastomer, the H-series straight type tool possess better lasting, wearing-resisting, comfortable grasp and anti-glossy features.

5 **Torque fix management system**
The outside torque adjustment design let user either adjust the torque rapidly or without using the torque lock nut. To avoid the adjustment by operator, this up-to-the date torque cover design prevent user to change the torque at will. Also, with long-resisting Steel Torque Cover as an accessory gives user an easily visible torque marking system at a glance for all the H-series straight type air tools.

6 **Speediness**
Operator can change rapidly the bit by pulling the bit head (refer to Tool Operation #4).

USING CAUTION

1 Please note improper operating may damage the tool.
2 Due to the safety consideration, please make sure tool is completely under control before and during operation.
3 Changing the rotation direction at will without stopping first the operation may damage the motor or reduce the usage term. Please note it is prohibited to change the rotation direction during operation, the proper operating method is stop first the operation, then change the rotation direction by pushing the Valve reverse switch.
4 The air screwdriver can be damaged by accidental falls or impacts. Due to the safety consideration, please hold the tool carefully or use the hook to prevent the tool dropping down.
5 Any moisture or lubrication injection may damage the air screwdriver, please keep tool dry and avoid oil based substances exposing to the products. For avoiding moisture affection, using Air Dryer is necessary in wet area or under moist weather.

EC DECLARATION OF CONFORMITY

We: **SUMAKE INDUSTRIAL CO., LTD.**

4F, No. 351, Yangguang St., Neihu District, Taipei City, Taiwan

declare in sole responsibility that the equipment

Equipment： HIGH TORQUE OIL FREE PISTOL HANDLE TRIGGER START SHUT OFF COMPOSITE WRENCH-3/8"

Model/ Serial No.： HWPFH250(350)(400)

to which this declaration applies, complies with these normative documents:

- **Machinery Directive: 2006/42/EC**

and conforms to the following EN standard,

- **EN ISO 12100: 2010**
- **EN ISO 11148-6:2012**

Name and Signature/Position

Mike Su – Managing Director

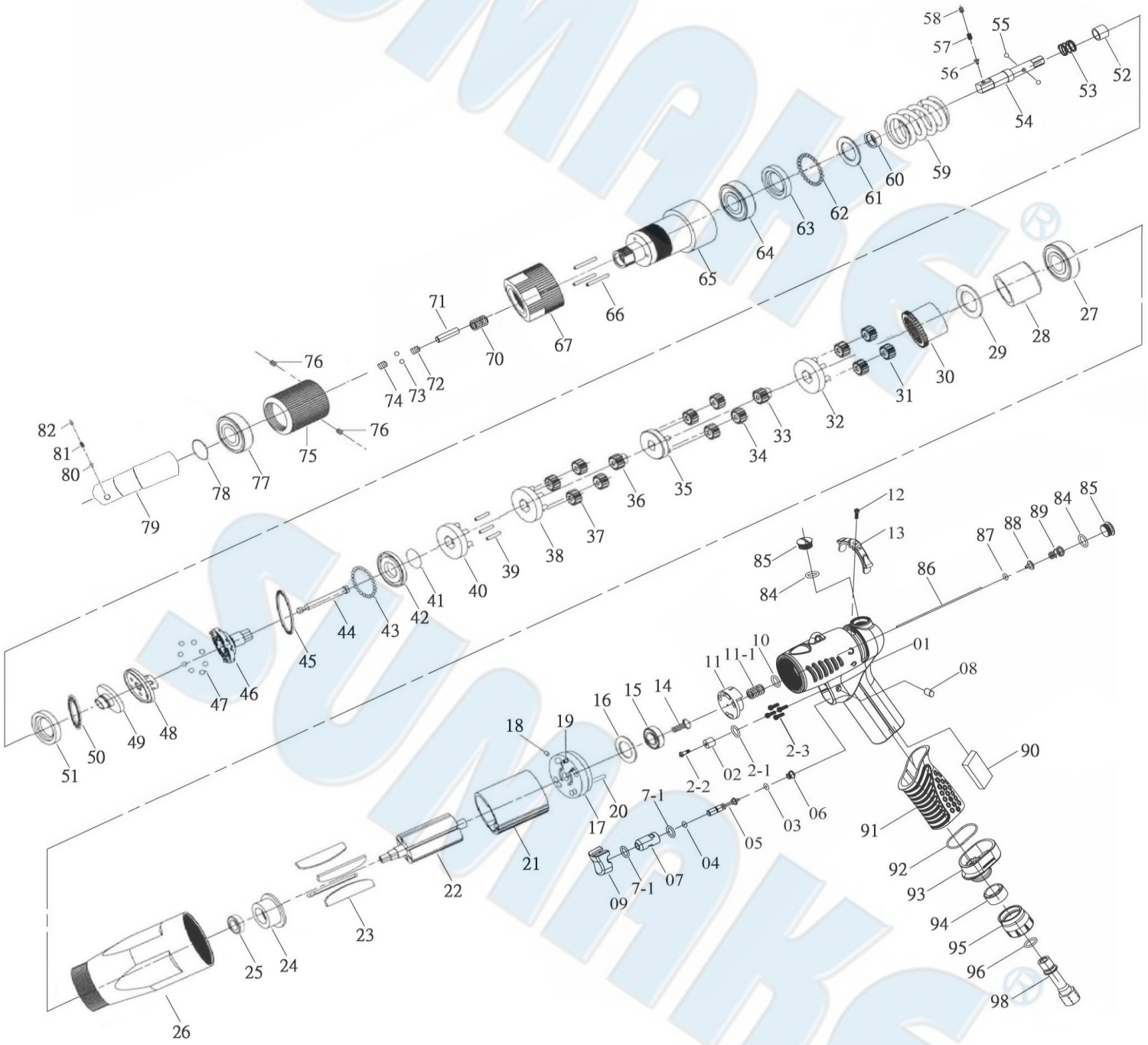
Date and Place

2024/5/2

Taipei, Taiwan

HWPFH400

HIGH TORQUE OIL FREE PISTOL HANDLE TRIGGER START SHUT OFF COMPOSITE WRENCH-3/8"



HWPFH400

HIGH TORQUE OIL FREE PISTOL HANDLE TRIGGER START SHUT OFF COMPOSITE WRENCH-3/8"

PARTS LIST

No.	Parts No.	Description	Q'ty
1	5L2100	Pistol Housing (Grey)	1
2	2C2002	Blank Cap	1
2-1	7Q2008	O Ring	1
2-2	7S2106-1	Screw	1
2-3	7S2156	Screw	4
3	7Q2007	O Ring	1
4	7Q6112	Valve O-Ring	1
5	6S2023	Valve Pin	1
6	6N2106	Cone Spring	1
7	6S2024	Valve Bushing	1
7-1	7Q2009	O-Ring	2
8	5L2116	Cap (Black)	2
9	5L2701	Button (Black)	1
10	7Q2011	Valve O-Ring	1
11	6S6104	Valve	1
11-1	6N5006	Spring	1
12	7S2107	Set Screw And Washer	1
13	2L6026	Switch (Iron)	1
14	6S2043	Screw	1
15	7S5001	Ball Bearing	1
16	2S2208	Washer	1
17	1S6018	End Plate	1
18	6S2015	Roll pin	1
19	7S2205	Pin (2x5)	1
20	6S2012	Needle Pin	1
21	1P6011	Cylinder	1
22	1S6905-TE	Rotor	1
23	1P6049	Oil-Free Blade	4
24	1P3021	Front Plate	1
25	7S2031	Ball Bearing	1
26	5A6227	Front Housing	1
27	7S5029	Ball Bearing	1
28	5S2075	Accelerator	1
29	7S5121	Washer	1
30	1S6070	Internal Gear	1
31	1P6120	14T Plate Gear	4
32	1P6325	Fifth Gear Cage	1
33	1G6086	10T Main Gear	1
34	1P6133	14T Plate Gear	4
35	1P6327	Forth Gear Cage	1
36	1P2086	14T Main Gear	1
37	1P2121	14T Plate Gear	4
38	1P6333	Fifth Gear Cage	1
39	7S5242	Pin	4
40	1P6332	Fifth Gear Cage	1
41	6N2006	C Ring	1
42	2S2126	Retainer	1
43	7S2102	Ball	145
44	3S5001	Pilot Pin	1
45	7S8106	Holder	1

No.	Parts No.	Description	Q'ty
46	3S6636	Rear Clutch	1
47	7S2105	Ball	4
48	3S6725	Center Clutch	1
49	3S6914	End Clutch	1
50	7S8401	Holder	1
51	3S5241	Ball Race	1
52	3S2227	Slide Base	1
53	6N5110	Spring	1
54	3S7049	Anvil	1
55	7S2105	Ball	2
56	7S5246	Iron Pad	1
57	6N2129	Spring	1
58	7S2155	Screw	1
59	6N5223	Torque Spring	1
60	3S2165	Bushing	1
61	7S5152	Washer	1
62	7S2102	Ball	30
63	3S5244	Ball Race	1
64	7S5003	Ball Bearing	1
65	3S6135	Angle Clutch Housing	1
66	7S5242	Needle Pin	3
67	3A6041	Torque Ring	1
70	6N6001	Spring	1
71	7S8001	Tappet	1
72	7S2219	Screw	1
73	7S2102	Ball	2
74	7S5108	Screw	1
75	2S6033	Angle Lock Nut	1
76	7S5111	Screw	2
77	7S5003	Bearing	1
78	6N3306	C Ring	1
79	3S8204	Anvil Seat	1
80	7S5246	Pin	1
81	6N2129	Spring	1
82	7S2155	Screw	1
84	2Q5001	O Ring	2
85	2S2011	Screw Cap	2
86	6S6008	Operating Rod	1
87	7Q2006	O Ring	1
88	6S2021	Valve Plate	1
89	6N2104	Cone Spring	1
90	2P3040	Silencer	1
91	5L2204	Pistol Cover (Black)	1
92	2Q2003	O Ring	1
93	2P3029	Base For Pistol	1
94	2P3030	Silencer	1
95	2P3032	Silencer For Pistol	1
96	2Q5001	O Ring	1
98	2S2068	Air Inlet Bushing [PT]	1
	2S2069	Air Inlet Bushing [NPT]	1