

# Installation / Operating / Maintenance Instructions Regulator

**Prod. No. 408826, 408828**

## Specifications

Model	ARH34	ARH1
Port size	3/4	1
Pressure gauge port size	1/4	
Max. supply pressure	220 psi (15 bar)	
Set pressure	Refer to product nameplate	
Installation	Any position	
Medium	Compressed air - Filtered	
Ambient / media temperature	5° - 60° C (41° - 140° F)	

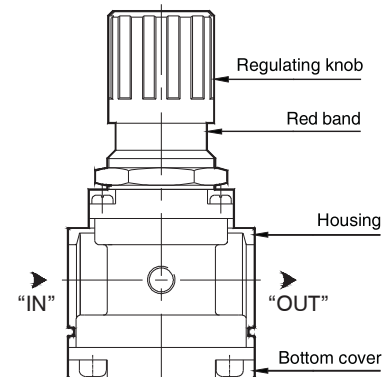


fig. 1

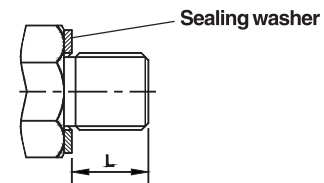
## Important

Since this equipment is used in compressed air line, proper precautions are to be taken for safety.

## Installation Instruction

1. Install in a clean / acid free environment.
2. Before installation of the unit, check whether the unit is as per the specification - especially the port size and the corresponding fittings to be used on the unit.
3. Flush the piping for dirt, dust, rust and other foreign particles.
4. The arrow mark ► on the top of the housing indicates the flow direction, Inlet ► Outlet (If the unit is connected in the reverse direction the air will continuously flow through the knob and the setting of the pressure is not possible.)
5. Use proper thread seals for (R) taper thread nipple, or face washer for (G) parallel thread nipple.
6. Tighten the piping / nipples to the housing ports using proper tools. Do not over torque when tightening.
7. When using (G) parallel thread nipples, check the length of the thread.



Thread Size	Tightening torque, Lb / in (Nm)	Length (L) of thread
G3/4	300 - 354 (34 - 40)	15mm max
G1	398 - 460 (45 - 52)	18mm max



Length of G parallel thread

8. Ensure foreign particles / tape, etc. do not enter the valve during assembly.

## Operating Instructions

1. To set the Regulator, pull the regulating knob till "Red Band" (Indicator ring) is visible (refer to figure 1).
2. To increase the pressure turn the regulating knob in clockwise direction  (see the marking on the knob)
3. To reduce the pressure turn the regulating knob in counter clockwise direction 
4. Always set the pressure in an ascending manner.
5. Set the pressure within the specified set pressure.

## Maintenance Instructions

- a. Before dismantling the unit, exhaust the air in the line completely.
- b. Dismantle the components and clean them in kerosene and blow with compressed air.
- c. Check for damages in the 'O' rings (14), (18), (21) and at sealing areas in the valve cone rubber, spherical relieving seating, seating area of the housing etc. Replace if needed (or) clean and reassemble.
- d. For assembly of the unit:
  - apply NLGI Grade 2 grease on the 'O' rings (14), (18), (21) and on the cylindrical surface of the valve cone (16), on threads of the adjusting screw (8), and on bearing washer (7).
  - Reassemble all the components.

**Assembly / Spare Parts List**

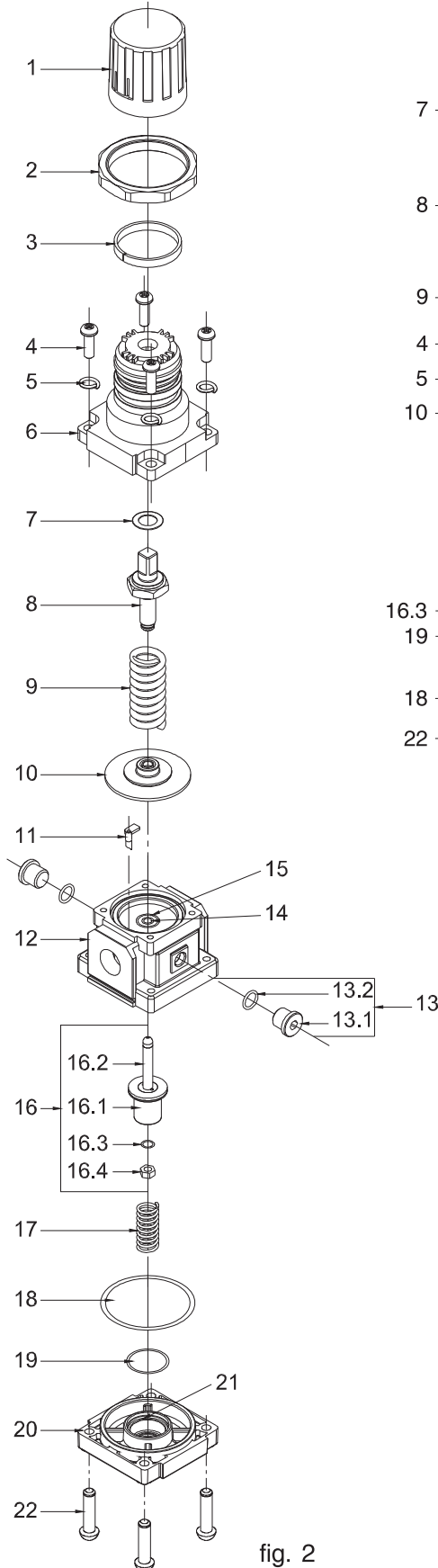


fig. 2

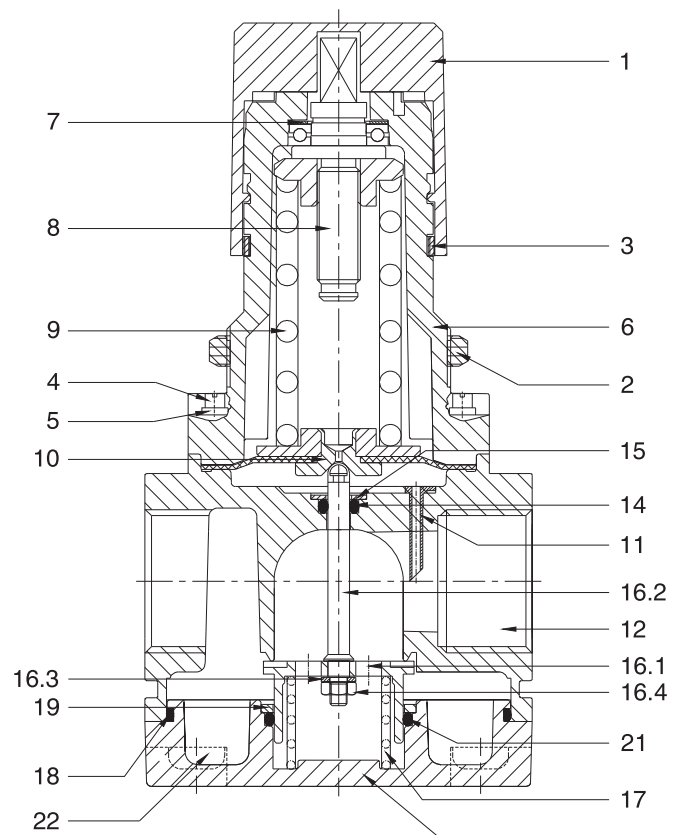


fig. 3

## Spare Parts List Regulator

Ref. No.	No. off.	Part name	Ordering No. for
			ARH34 / ARH1
1	1	Knob	-
2	1	Locknut	-
3	1	Indicator ring	-
4	4	Socket button head cap screw	-
5	4	Spring washer	-
6	1	Bonnet	-
7	1	Washer	-
8	1	Adjusting screw assembly	LA2202
9	1	Main spring	*
*	*	0.2 - 2 bar	062061
*	*	0.2 - 4 bar	062062
*	*	0.5 - 7 bar	062063
*	*	0.5 - 10 bar	062060
10	1	Diaphragm assembly	SA2202
11	1	Venturi tube	NIL
12	1	Housing	-
13	2	Plug assembly	WAP061
13.1	1	Plug	-
13.2	1	Sealing washer	-
14	1	'O' ring	-
15	1	Washer	-
16	1	Valve cone assembly	SA2208
16.1	1	Valve cone complete	-
16.2	1	Stem complete	-
16.3	1	Washer	-
16.4	1	Nut	-
17	1	Bottom spring	-
18	1	'O' ring	651119
19	1	Washer	-
20	1	Bottom cover	-
21	1	'O' ring	650125
22	4	Socket button head cap screw	-

Denotes for ordering items. For example, **Valve cone assembly (16)** the item will be supplied as kit, consisting of Valve cone complete (16.1), Stem complete (16.2), Washer (16.3), Nut (16.4) accordingly.

## Trouble shooting

TROUBLE	CAUSE	SOLUTION
1. Continuous leak through the knob (1)	1. Diaphragm (10) damaged 2. Relieving spherical seating of the valve cone damaged 3. Dirt found in between the seating and the valve cone (16.1) 4. 'O' ring (21) damaged	1. Replace Diaphragm assembly (10) 2. Replace valve cone assembly (16) 3. Clean and reassemble 4. Replace the 'O' ring (21)
2. Air leaks at Housing (12) and Bottom cover (20)	'O' ring (18) damaged	Replace the 'O' ring (18)
3. Setting pressure goes on increasing slowly	1. Relieving spherical seat of the valve cone damaged 2. Dirt found in between the seating and the valve cone 3. 'O' ring (21) damaged	1. Replace the valve cone assembly (16) 2. Clean and reassemble 3. Replace the 'O' ring (21)
4. After frequent use of adjustment, the pressure setting becomes not possible	Wearing out of the adjusting screw (7)	Replace the adjusting screw assembly after applying general purpose grease on threads and at washer (7)
5. Supply pressure directly connected to outlet port and pressure setting not possible	Valve cone assembly (16) got stuck	Dismantle the valve cone assembly (16). Clean using kerosene and air. Reassemble after applying general purpose grease on 'O' ring (14) [as applicable to the model] and on the valve cone cylindrical portion
<b>Remarks:</b> When the unit is installed in a salty atmosphere, there is a good chance of formation of Aluminum Oxide inside the housing and the bottom cover (20). This may cause the valve cone to get stuck. In this case dismantle the components and clean them using kerosene and air. During reassembly apply general purpose grease on all the inside surfaces of the housing and bottom plug as protection against corrosion. Also apply grease on the 'O' rings and cylindrical portion of the valve cone.		

### How to order spare parts:

Mention the spare parts and model numbers as given in the tables.

Example: 'O' ring (18) – 651119 for ARH34

Subject to change

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