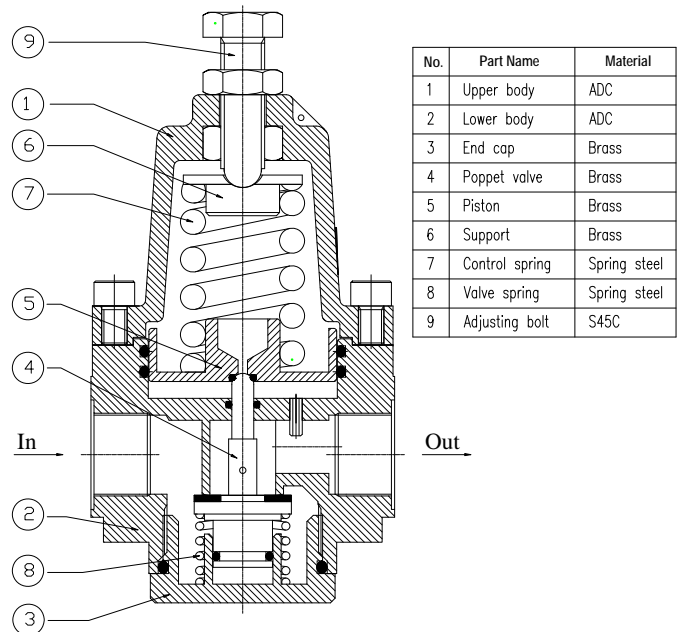


Product	High Pressure Reducing Valve
Model	HR40P-G20
Maker	LEBE

1. Specifications and Main Parts

Item	Specification
Working pressure	max. 40 bar
Secondary pressure range	0.5 ~ 10 bar
Admissible medium	compressed air
Ambient temperature	-15 ~ 70 °C
Flow rate	6,800 l/min (7 bar, ΔP: 1bar)
Connection	PF 3/4"
Body material	Aluminium alloy for die-casting
Weight	2.1 kg



2. Operating Method

- 1) Turn the adjusting bolt(⑨) clockwise to rise the secondary pressure, the control spring(⑦) is press-ed and the poppet valve(④) is opened.
Simultaneously, the secondary pressure rises and is constant when the adjusting bolt(⑨) stops.
- 2) Adjust the secondary pressure to target pressure seeing the pressure gauge.
- 3) Turn the adjusting bolt(⑨) counterclockwise to reduce the secondary pressure. If so, the secondary air is vented to the upper body(①) through the relief hole of piston(⑤).

Notice!

- Because the relief pressure by the o-ring in the piston(⑤) is added when you set the target pressure as reducing the secondary pressure, you can not accurately set the target pressure.
- To avoid that problem, set the target pressure rising the secondary pressure if possible.

Warning!

- Make sure that the pipe pressure is 0barg through the pressure gauge before disassembling.

3. Notice

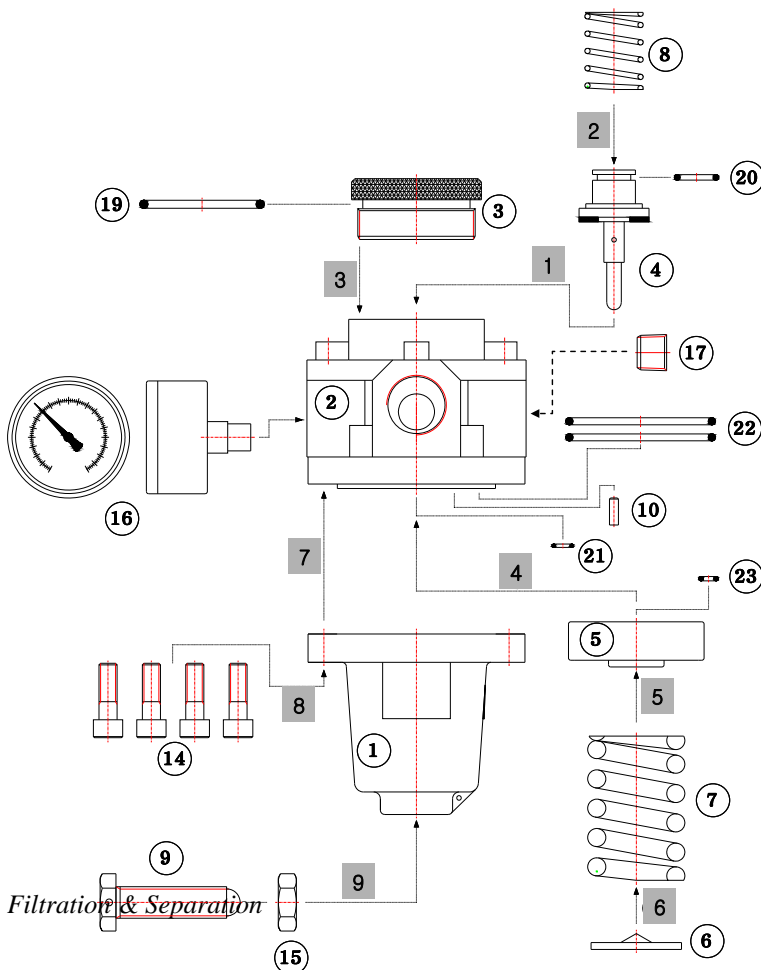
- Make sure that the equipment and the pipes are connected correctly for the occurring air pressure.
- Depressurize the pressure reducing unit and the connected systems before you disconnected parts of the system. The sudden escape of compressed air can cause serious injury or damage.
- Use teflon grease on the o-rings.
- Contact your supplier if you detect a problem that you cannot solve with this manual.

4. Assembly and Parts

* Underline/bold : replacement parts

5. Maintenance Scheme

No.	Part name	Q'ty	Part Number
1	Upper body	1	HR01P01
2	Lower body	1	HR01P02
3	End cap	1	HR01P03
4	Poppet valve	1	HR01P04
5	Piston	1	HR01P05
6	Support	1	HR01P06
7	Control spring	1	HR01P07
8	Valve spring	1	HR01P08
9	Adjusting bolt	1	HR01P09
10	Orifice	1	HR01P10
11	Name plate	1	HR01P11
12	Bracket-body	1	HR01P12
13	Bracket-gauge	1	HR01P13
14	Assembly bolt	4	M8WB25
15	Lock nut	1	M14HN
16	Gauge	1	G15B08PT
17	Plug(Gauge)	1	PL08PT
18	Bolt-bracket	3	M8WB10
19	O-ring(end cap)	1	OR48P
20	O-ring(valve)	1	OR14P
21	O-ring(lower body)	1	OR07S
22	O-ring(cylinder)	2	OR60G
23	O-ring(piston)	1	OR05P1B



Part	Action		Period
O-ring	Check	Disassemble a pressure reducing valve and make sure all o-ring's state	2 year
Valve	Change	Change o-rings in out of condition.	
Piston		Change the whole valve if the valve sheet is damaged and the piston is worn.	

6. Replacement Kit (HR01RP)

No.	Part name	Part number	Q'ty
1	Poppet valve	HR01P04	1
2	Piston	HR01P05	1
3	O-ring(piston)	OR05P1B	1
4	O-ring(end cap)	OR48P	1
5	O-ring(valve)	OR14P	1
6	O-ring(cylinder)	OR60G	2
7	Teflon grease	-	1

※ All replacement parts are ordered and packed in a bundle.