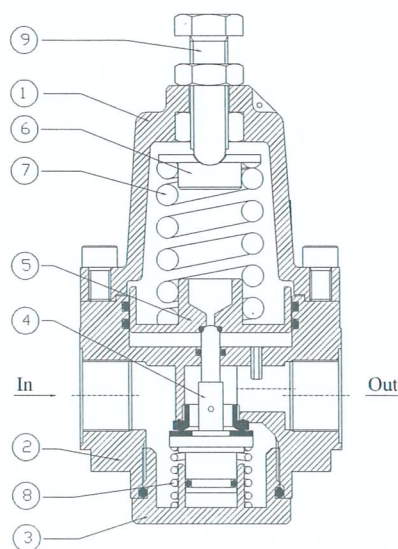


Product	High Pressure Reducing Valve
Model	HR40P-G20
Maker	LEBE

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	6,500 l/min (7 bar, ΔP: 1bar)
Connection	PF 3/4"
Body material	Aluminium alloy for die-casting
Weight	2.1 kg



No.	Part Name	Material
1	Upper body	ADC
2	Lower body	ADC
3	End cap	Brass
4	Poppet valve	Brass
5	Piston	Brass
6	Support	Brass
7	Control spring	Spring steel
8	Valve spring	Spring steel
9	Adjusting bolt	S45C

2. Operating Method

- 1) Turn the adjusting bolt(9) clockwise to rise the secondary pressure, the control spring(7) is pressed 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.

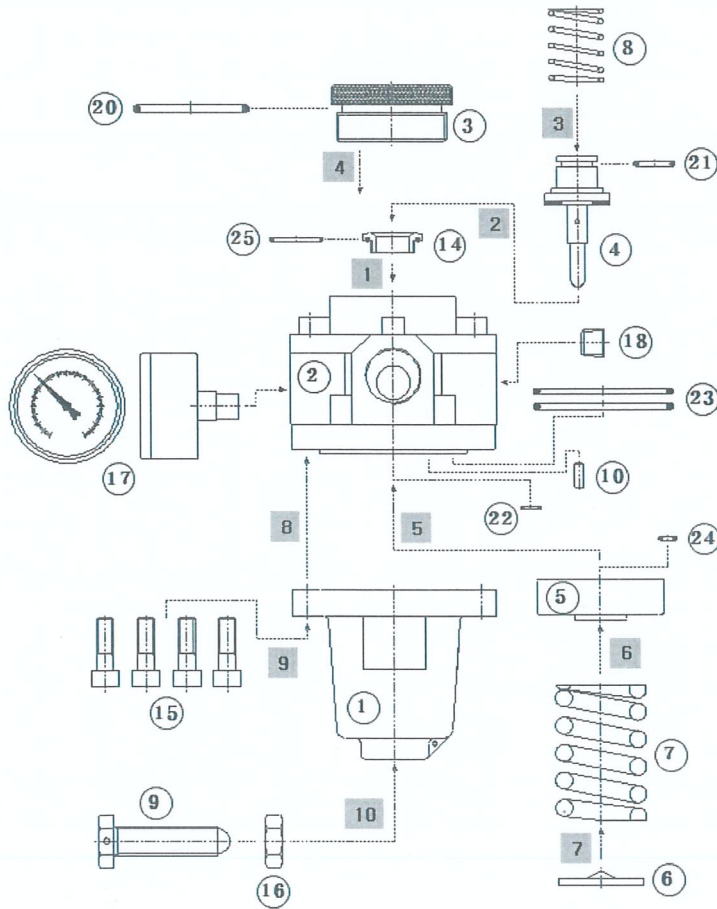
Warning!

- 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



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	Bushing	1	HR01P14
15	Assembly bolt	4	M8WB25
16	Lock nut	1	M14HN
17	Gauge	1	G15B08PT
18	Plug(Gauge)	1	PL08PT
19	Bolt-bracket	3	M8WB10
20	O-ring(end cap)	1	OR48P
21	O-ring(valve)	1	OR14P
22	O-ring(lower body)	1	OR07S
23	O-ring(cylinder)	2	OR60G
24	O-ring(piston)	1	OR05P1B
25	O-ring(bushing)	1	OR020K

5. Maintenance Scheme

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

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	O-ring(bushing)	OR020K	1

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