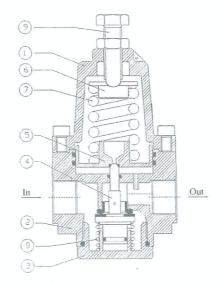


Product	High Pressure Reducing Valve
Model	HR40P-G20
Maker	LEBE



1. Specifications and Main Parts

ltem	Specification
Working pressure	max. 40 bar
Secondary pressure range	0.5 ~ 10 bar
Admissible medium	compressed air
Ambient temperature	-15 ~ 70 ℃
Flow rate	6,500 l/min (7 bar, △P: 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 cop	Brass
4	Poppet valve	Bross
5	Piston	Bross
6	Support	Bross
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.
- m To avoid that problem, set the target pressure rising the secondary pressure if possible.

Warning!

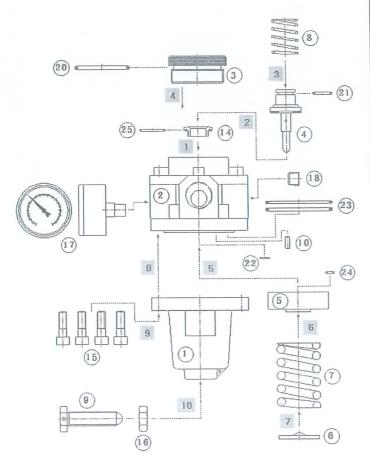
■ Make sure that the pipe pressure is 0barg through the pressure gauge before disassembling.

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

6. Replacement Kit (HR01RP) ITEM: 2

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

20.80.05.08 NIVI

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



MARK

Date

Description Of Revision

20030625 Original

20030915 SUPPLIER Added

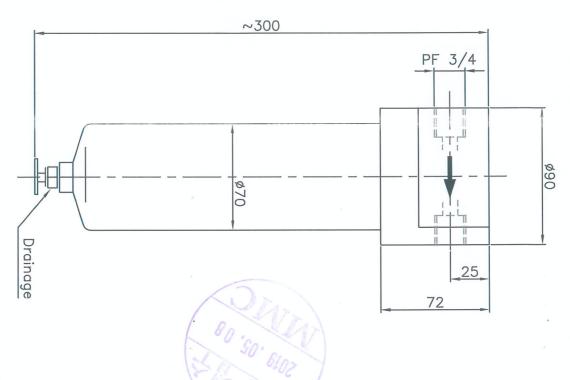
20100205 POROSITY 변경(25→40/m) 20100215 CONNECTIONS(NPT 1/2→PF3/4)

Drawn
k.g.Kim
k.g.Kim
m.j.Park
m.j.Park

d.g.Kang d.g.Kang y.d.Na d.g.Kang

Chk'd

App'd



NOTE

MAKER

SUPPLIER

TYPE NUMBER

J2SL

22,100 I/min

MMC

Parker (LeBe)

FLOW RATE

WORKING PRESSURE

RESSURE : 105 bar

ADMISSIBLE MEDIUM : Compressed air

: PF 3/4

CONNECTIONS

POROSITY

40 µm

..

MATERIAL

Housing Filter element

: Ductile iron : bronze

MECHA:	>	Туре	No	
MIRAE MECHATRONICS CO.	N N O		DESC	
Size	Projec.	Scale	DESCRIPTION	
A4	щ Ф 1,5,	N/S		
10H1607-3 She		TITLE	MATERIAL	
507—	AIR FILIER	> - - -	Q'TY	
3 Sheet No.	<u></u>		REMARKS	
S			S	

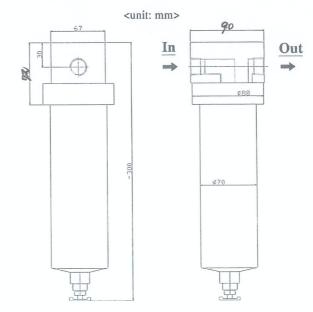
SYMBOL

Product	High Pressure Air Filter
Model	J2SL
Maker	Lebe(Parker)



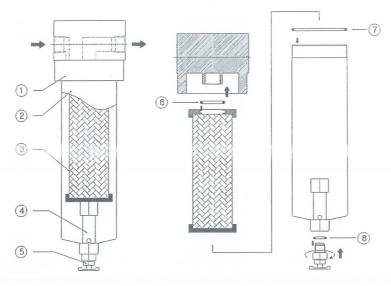
1. Specifications and Size

ITEM	SPECIFICATION	
Flow Rate	22,100 <i>l/min</i>	
Working Pressure	Max. 105bar	
Admissible Medium	Compressed Air	
Porosity	40 <i>μ</i> m	
Connection	PF 3/4"	
Material Head Bowl Element	Die-casting AL alloy AL6061 Brass sintered	



2. Assembly and Parts

- 1) Shut off the compressed air of inlet side.
- 2) Depressurize the pressure reducing unit to 0barg after closing the inlet valve. Check through the pressure gauge.
- 3) Turn the lower body of housing (B) counterclockwise and pull the lower body from the upper body (A).
- 4) Pull the filter element (C) and remove the old filter element (C). Don't loose the stopper (D) and the drain valve (E).
- 5) Place a new filter element (C).
- 6) Assemble the parts in the opposite direction.



	No.	Part name	Q'ty	Part Number
	1	Head	1	HF01P01
I	2	Bowl	1	HF01P02
-	3	Element	1	25CWC11-150
ľ	4	Stopper	1	HF01P04
-	5	Drain valve	1	HF01P05
	6	O-ring(eleme nt)	1	OR25P
-	7	O-ring(bowl)	1	OR138K
-	8	O-ring(drain)	1	OR12P

: replacement parts

Warning!

Filtration & Separation

www.lebeind.co.kr eBe

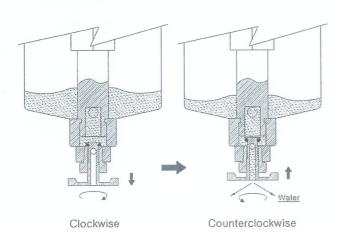


Make sure that the pipe pressure is 0barg through the pressure gauge before disassembling. Never supply the compressed air without the filter element; operating without the filter element will lead to expensive repair.

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.
- Contact your supplier if you detect a problem that you cannot solve with this manual.

4. Drain Method



- 1) The manual handle of drain valve is a left handed screw. So, if you turn the manual handle clockwise, the drain handle moves a downward direction and the drain valve is closed.
- 2) To the contrary, if you turn the manual handle counterclockwise, the drain handle moves an upward direction and the drain valve is opened.

5. Maintenance Scheme

Part	Action		Period
Drain	Check	Manually drain the stagnant water in the housing and close the drain valve.	Every day
valve	Change	If the element surface is badly contaminated by particles, Replace the old element by a new one.	1 year
-1	Check	Disassemble the filter and confirm the element state. Clean the element with a compressed air nozzle.	3 month
element	Change	If the element surface is badly contaminated by particles, Replace the old element by a new one.	1 year
O-ring	Change	Change replacement o-rings in 1 year.	1 year

6. Replacement Kit (HF01RP)

No.	Part name	Part number	Q'ty	
1	Element	10CWC40-150	1	
2	Drain valve	HF01P05	1	
3	O-ring(bowl)	OR138K	1	
4	O-ring(drain)	OR12P	1	

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



MARK

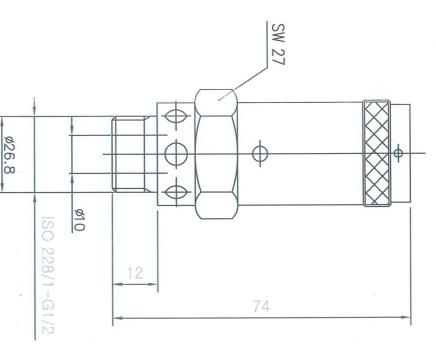
Date

Description Of Revision

Drawn Chk'd App a d.h.Cho k.g.Kim d.g.Kang d.h.Cho k.g.Kim d.g.Kang

Chk'd App'd

20070409 Redawing 20060315 Original





SYMBOL

					V						
14613	2956	14027	2949	13870	13862	13821	2931	13805	2923	13797	Code Number
11.5	11.0	10.5	10.0	9.0	8.5	8.0	7.0	6.5	6.0	5.5	Opening press. bar
5183	4967	4767	4550	4133	3917	3717	3300	3083	2883	2667	exhaust capacity NI/min

NOTE

- 1. MAKE: J. LORCH GES
- 2. ADMISSIBLE MEDIUM: COMPRESSED AIR
- 3. AMBIENT TEMPERATURE: -10°C TO +180°C

MECHA	>	Туре	No	1
MIRAE MECHATRONICS CO.	™		DESC	
Size	Projec.	Scale	DESCRIPTION	
A4	西 ◆ 1 六 1	N/S		
10H1001-1 Sheet	SA	TITLE	MATERIAL	
001-	SAFETY VALVE		Q'TY	
1 Sheet 7	ALVE		REMARKS	