

Operation and Maintenance Manual

Air Operation High Pressure

HMR5SDA

Specification	
Max. primary fluid pressure	17MPa
Fluid flow pressure adjusting range (Secondary fluid pressure)	1.5~9.4MPa
Maximum operation air pressure	0.5MPa
Maximum flow rate	4L/min (17sec/FC#4) 2L/min (40sec/FC#4)
Ambient temperature	0~40°C
Fluid inlet diameter	G1/4 (PF1/4)
Fluid outlet diameter	Rc1/4 (PT1/4)
Operation air diameter	Rc1/4 (PT1/4)



This manual contains important information on warnings and cautions. Read the manual thoroughly before starting to operate the equipment, and follow the instructions.

Always keep the manual handy until such time as the equipment is no longer being used.

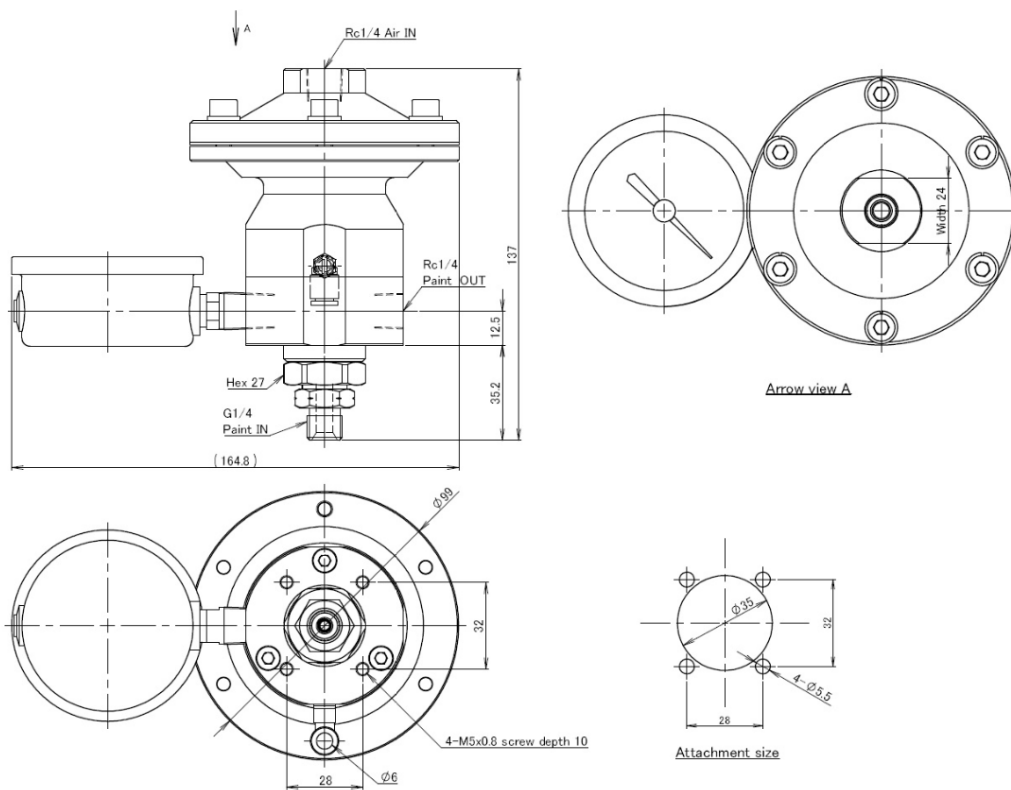
If your manual is lost or worn badly, do not hesitate to contact our agency which is closest to you, or the Asahi Sunac Corporation, directly, and ask us to send you a new one.

Thank you for buying our product, High Pressure Regulator, Model HMR5SDA.
 Before you use the equipment, carefully read this manual. Especially, fully understand the precautions.
 Use the equipment safely and properly, following the instructions in the manual.
 Should you have any questions about the manual, please contact us, Asahi Sunac, at the addresses,
 phone and fax numbers as shown on the back of this manual.

Precautions

- (1) Wash inside this equipment by a thinner which matches used paint and try the whole operation actually.
- (2) Do not install the regulator in a place where thinner splashes.
- (3) When disassembling and cleaning, do not soak the unit in a solvent.
- (4) Clean well after each use.
 Inadequate cleaning may cause failures such as regulator seat defective or uncontrollable pressure.

Outline drawing



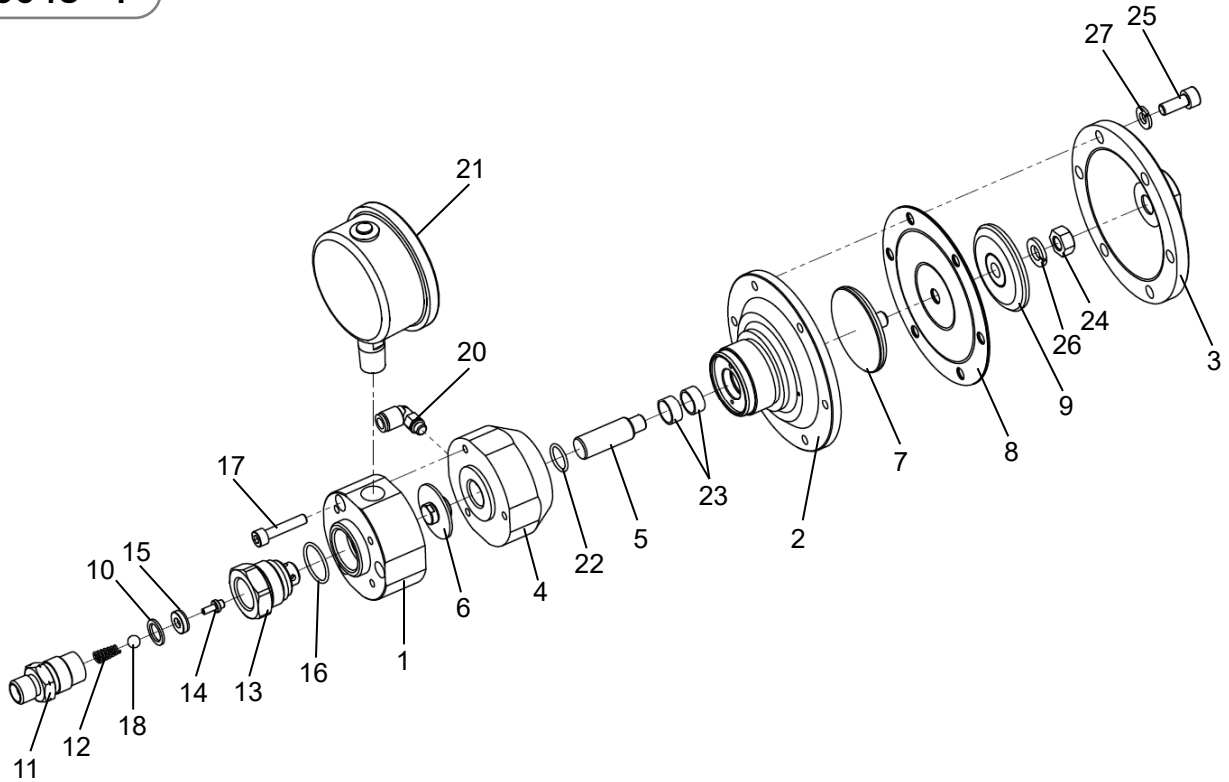
Troubleshooting

Symptom	Cause	Remedy
Cannot increase fluid pressure	① Clogged fluid passage	① Take it apart and clean.
	② Defective pressure gauge (21).	② Replace pressure gauge.
Cannot reduce fluid pressure	① Foreign materials on seat housing (11), seat housing (13).	① Take it apart and clean.
	② Worn seat (15), ball (18).	② Replace seat (15), ball (18).
Oil leaks from quick joint	Ruptured diaphragm (6).	Replace diaphragm (6).
Fluid pressure fluctuates	Pump pressure too low	Set pressure higher.

Exploded Diagram and Names of Parts

HMR5SDA

5048-1



Air Operation High Pressure Regulator HMR5SDA <5048-1>

No.	Part No.	Part Name	Qty	Remarks
1	5038-001	Housing	1	
2	5022-002	Body	1	
3	5022-007	Flange	1	
4	5048-004	Block	1	
5	5048-005	Needle	1	
6	5038-006	Diaphragm	1	
7	5022-003	Diaphragm receiver	1	
8	0740-011	Diaphragm	1	
9	0740-009	Diaphragm receiver	1	
10	155-2010A	Backup ring	1	
11	5038-012	Housing	1	
12	5018-013	Spring	1	
13	5038-014	Seat housing	1	
14	5048-014	Pusher	1	

No.	Part No.	Part Name	Qty	Remarks
15	5018-016	Seat	1	
16	130-2020	O-ring	1	
17	03-80525	Hex socket hd cap screw, Plated	3	
18	0740-016	Ball	1	
19	Null			
20	384-0606	Quick joint(elbow)	1	
21	305-0024	Pressure gauge	1	
22	130-60125	O-ring	1	
23	324-1206	DU bush	2	
24	15-70800	Hex nut	1	
25	03-80615	Hex socket hd cap screw, plate	6	
26	41-80800	Spring washer	1	
27	41-80600	Spring washer	6	

Consumables

The following quantities are for 1 set.

The maintenance period varies depending on the paint used, conditions, etc.

(1)5048-1 Air Operatin High Pressure Regulator (HMR5SDA)

No.	Part No.	Part Name	Qty	Lifetime	Measure
6	5038-006	Diaphragm	1	6 months	
10	155-2010A	Backup ring	1		P10A T3
14	5048-014	Pusher	1		
15	5048-016	Seat	1		
16	130-2020	O-ring	1		S20 (Teflon)
18	0740-016	Ball	1		
22	130-60125	O-ring	1set	As needed	S12.5 (NBR)

※The service life is a reference value with 120 hours / month as a guide, and the function is not guaranteed.

- When a transfer of title of this equipment takes place, please see to it that this Operation and Maintenance Manual is handed over to the new owner.
- This equipment is manufactured in compliance with the Laws and Regulations of Japan. In the rare eventuality of this equipment being used outside Japan, compliance with the safety standards of the relevant countries is of course mandatory.

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