

# Operation and Maintenance Manual

## High Pressure Regulator

# HMR5SD



Specifications	
Max. primary fluid pressure	20MPa
Fluid flow pressure adjusting range (Secondary fluid pressure)	4 ~ 15MPa
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 (PF1/4)

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.

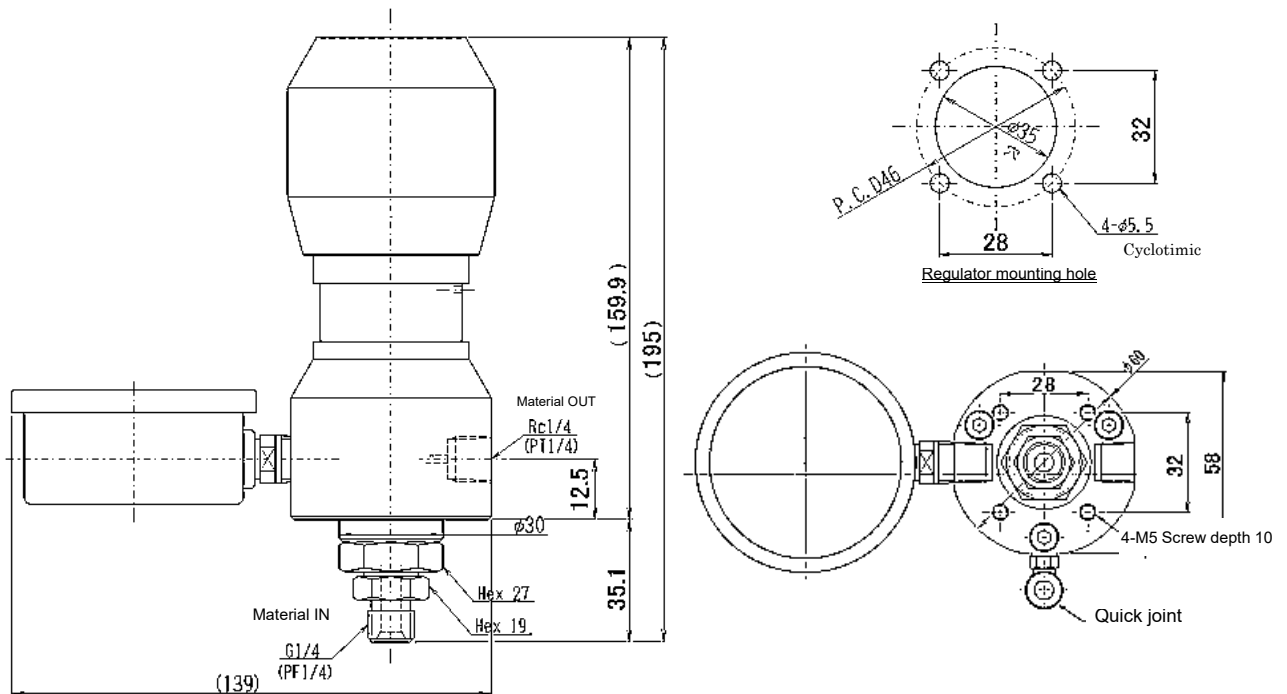


Thank you for buying our product, High Pressure Regulator, Model HMR5SD.  
 Before you use the equipment, carefully read this manual. Especially, fully understand the precautions.  
 Use the equipment safely and properly, following the instructions in the manual.  
 Should you have any questions about 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) Never set primary fluid to a pressure exceeding 20MPa.
- (4) Clean well after each use.  
 Inadequate cleaning may cause failures such as regulator seat defective or uncontrollable pressure.
- (5) When diaphragm is ruptured, oil leaks from quick joint.  
 Take that by using tube pipe to a can for disposal, and oil won't spill near the equipment.

## Outline drawing



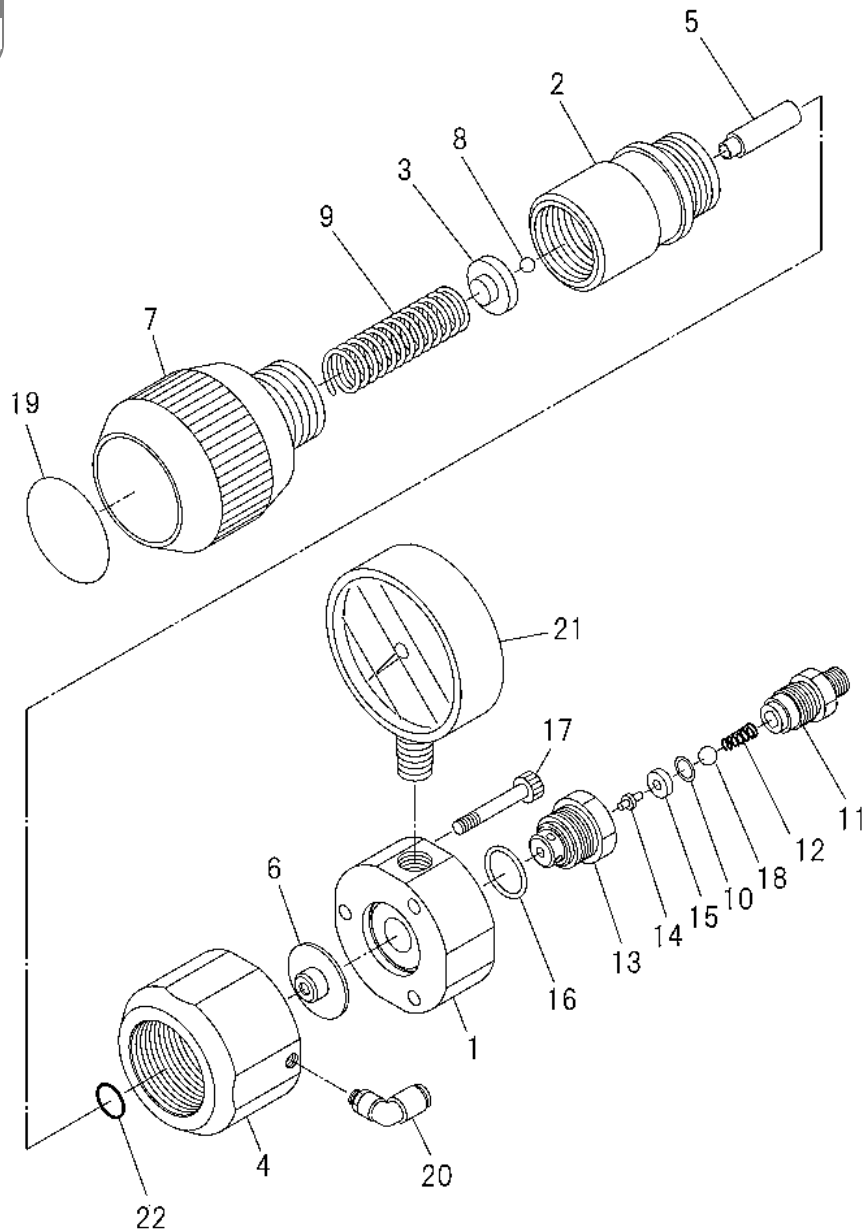
## Troubleshooting

Symptom	Cause	Remedy
Cannot increase fluid pressure	①Clogged fluid passage	①Take it apart and clean.
	②Defective pressure gauge (21).	②Replace pressure gauge.
Cannot reduce fluid pressure	①Foreign materials on housing(11), seat housing (13).	①Take it apart and clean.
	②Worn seat (15), ball (20).	②Replace seat (15), ball (20).
Oil leaks from quick joint	Ruptured diaphragm (6).	Replace diaphragm (6).
Fluid pressure fluctuates	Pump pressure too low	Set pressure higher (0.15~0.7MPa).

# Exploded Diagram and Names of Parts

HMR5SD

5038



High Pressure Regulator HMR5SD <5038>

No.	Part No.	Part Name	Qty	Remarks
1	5038-001	Housing	1	
2	5038-002	Body	1	
3	5018-003	Spring receiver	1	
4	5038-004	Block	1	
5	5038-005	Needle	1	
6	5038-006	Diaphragm	1	
7	5018-007	Handle	1	
8	0201-009	Valve ball	1	
9	5018-010	Spring	1	
10	155-2010A	Back-up ring	1	
11	5038-012	Housing	1	

No.	Part No.	Part Name	Qty	Remarks
12	5018-013	Spring	1	
13	5038-014	Seat housing	1	
14	5038-015	Pusher	1	
15	5018-016	Seat	1	
16	130-2020	O-ring	1	
17	03-50525	Hex. socket bolt	3	
18	0740-016	Ball	1	
19	5002-005-3	Nameplate	1	
20	384-0606	Quick joint	1	
21	305-0024	Pressure gauge	1	
22	130-60125	O-ring	1	

## Consumables

The following quantities are for 1 set.

### High Pressure Regulator HMR5SD <5038>

No.	Part No.	Part Name	Qty	Lifetime	Measure
6	5038-006	Diaphragm	1	6 mths	
10	155-2010A	Back-up ring	1	6 mths	T3 (for P10A)
14	5038-015	Pusher	1	6 mths	
15	5018-016	Seat	1	6 mths	
16	130-2020	O-ring	1	6 mths	S20 (Teflon)
18	0740-016	Ball	1	6 mths	
22	130-60125	O-ring	1	6 mths	

※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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