



1. Maximum operating pressure: 21 MPa
Impulse test: 21 MPa x 10⁷ times
2. Manifold type: Easy to replace elements for upward removal.
3. Spec. for option

Element Type	Element Max. Differential Pressure	Indicator Operating Pressure	Relief Valve Opening Pressure
Standard	0.7MPa	0.3MPa	0.35MPa
High differential pressure	21MPa	0.7MPa	—
4. Filter element is common to Models TM, GM and TMA.
5. Reverse flow valve for manifold type is available in additional option.
6. Please contact us for use of fluids other than mineral oil on O-rings and other parts.
7. Manifold surface finish should be Ra 1.6S (▽▽▽) or better.
8. For mounting, please prepare and use hexagon socket cap bolt (strength 12.9).
Size M10x35 (without reverse flow valve)
Size M10x70 (with reverse flow valve) bolt too much.

Caution: When releasing air, do not over-loosen No.7 Cap bolt. Avoid No.8 Steel ball pop-out which may cause injury.

Part List

Part No.	Part Name	Material	Qty	Remarks
19	φ3 × 10L knock pin	SK	1	Option
18	O-ring	NBR	1	JISB 2401. 1A
17	O-ring	NBR	1	JISB 2401. 1B
16	Indicator		1 set	Option
15	Relief valve	Nylon SWPA	1	Option
14	O-ring	NBR	1	JISB 2401. 1B
13	Backup ring	PTFE	2	JISB 2407.
12	Backup ring	PTFE	2	SUN-4B
11	O-ring	NBR	1	AS568-214
10	O-ring	NBR	2	JISB 2401. 1A
9	O-ring	NBR	2	JISB 2401. 1B
8	Steel ball	SUJ	1	
7	Cap bolt	SCM435	1	
6	Cap bolt	SCM435	2	
5	G ³ / ₈ drain plug	SCM435	1	Under head 15
4	Element		1	
3	Shell	STPT410S	1	
2	Cover	FCD450	1	
1	Body	FCD500	1	

O-ring and Backup Ring

Part No.	Model	9	10	11	12	13	14	17	18
All GM models		P-22	G-55	AS 568-214	P-22 (for flange)	G-55 (Endless)	P-14	P-18	P-14

Reverse flow valve (additional option) comes with P-14 O-ring (JIS B2401.1A) and Backup ring (JIS B2407 T2).

Dimensions and Standard Flow Rates

Model	Symbol	Inner Dia.	H	φ	Element Allowance E	Mass (kg)	Standard Flow Rate (ℓ / min)
GM-04Z-2		15A	188	115	90	4.2	20
GM-04Z-3			282	209	180	5.0	30
Reverse flow valve			—	—	—	2.1	—

Model Code

Fluid Type — GM — Inner Diameter — Case Length — Filtration Rating — Option

Code	Fluid
Blank	Mineral oil
F	Phosphate ester-based oil
G	Water glycol-based oil

Code	Inner Dia.
04Z	15A equivalent

Code	Filtration	Media
3C	3 microns	C fiber
8C	8 microns	
25C	25 microns	
10U	10 microns	Paper
20U	20 microns	
40U	40 microns	
50U	50 microns	
100U	100 microns	
200U	200 microns	Wire (SUS)
150W	150 mesh	
100W	100 mesh	
60W	60 mesh	

Code	Indicator	Model	
		0.3MPa set	0.7MPa set
Blank	Blind plug	—	—
I	Visual	IF-3	IF-7
E	Electric	EF-3	EF-7
D	Electric (for micro capacity)	EF-3D	EF-7D

Code	Relief Valve
K	None
V	With

Code	Reverse Flow Valve
Blank	None
D	With

Code	Knock Pin
Blank	None
P	With

Coding Example
F-GM-04Z-2-3C-IV

※ 3C: β₃ ≥ 200 8C: β₈ ≥ 200 25C: β₂₅ ≥ 200
(Note) "CH" is for high differential pressure 21MPa elements. Relief valve cannot be attached.
★ Not to be used with water glycol-based oil.
☆ Filter media used for water glycol-based oil differs from that for mineral oil.

Spares

Element

P — Fluid Type — GM — Case Length — Filtration Rating
Coding example : P-F-GM-2-3C

Sealing parts set

● For element replacement (Part No. with ◎ in "O-ring and Backup ring").
SP — Fluid Type — GM — 04Z
Coding example : SP-F-GM-04Z

● For overhaul

SA — Fluid Type — GM — 04Z — Option

Code	Reverse Flow Valve
Blank	None
D	With

Flow Rate Chart

● ISO VG32 ● Viscosity: 32 cSt (40°C)

