FLOW MONITOR

Replaceable Flow Vane type

For low pressure

Applicable fluid * Water

*This product cannot be used for gases. If oil is used for the fluid, the durability may be reduced depending on the compatibility of the oil or additive with the plastic parts. Please use the FLOW MONITOR after thorough evaluation.

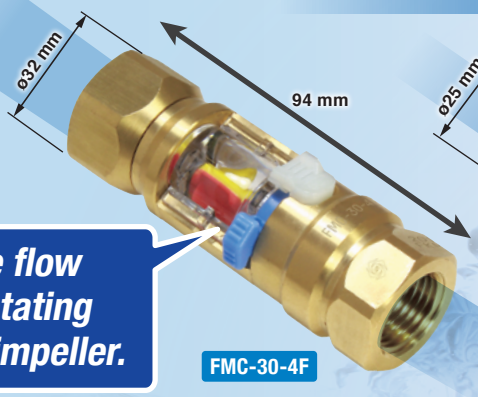
This product is **not CUPLA**.

The cooling water flow can be checked at a glance.

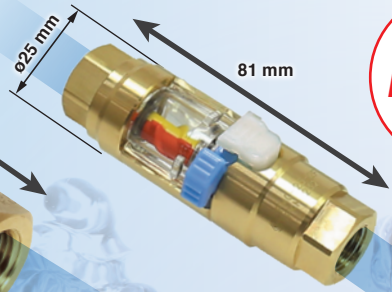
Small diameter type has been newly added to the lineup!!

YouTube

Check the flow with the rotating two-colored impeller.



FMC-30-4F



FMC-25-2F

NEW

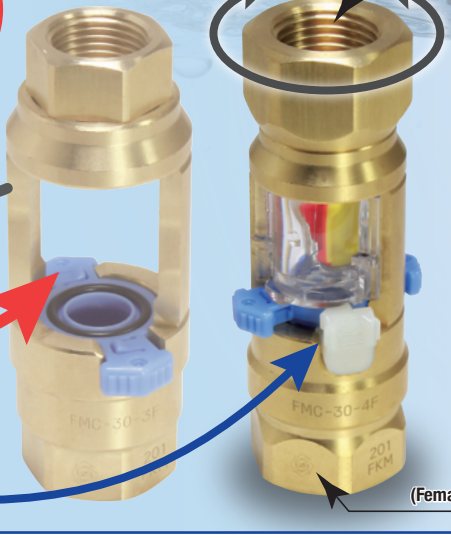
Can be replaced when dirty.

Remove

Replace

Flow Vane ASSY
(Plastic part)

Stopper



FLOW MONITOR Model FMC-30-3F	FLOW MONITOR Model FMC-30-4F	FLOW MONITOR Model FMC-25-1F	FLOW MONITOR Model FMC-25-2F
Size (Thread): Rc 3/8	Size (Thread): Rc 1/2	Size (Thread): Rc 1/8	Size (Thread): Rc 1/4

Visibility

Fluid flow from low flow rate water pipes can be visually checked with the rotating two-colored impeller.

Easy maintenance

Flow Vane ASSY can be replaced without removing it from the piping.

Safety

The stopper prevents unintended removal of the plastic parts.

Easy installation

Installation and replacement is easy since the screw part of the T2 side rotates freely to the left and right.

Green Procurement
Products Comply with RoHS Directive

CUPLA

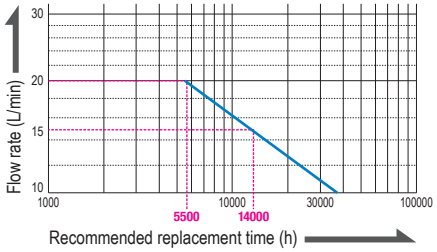
Recommended replacement time of Flow Vane ASSY

Flow Vane ASSY

If the Flow Vane ASSY is dirty or cloudy and the impeller is difficult to see, replace it regardless of the recommended replacement time.

The recommended replacement time for this product is calculated from the amount of wear on the internal parts of the Flow Vane ASSY based on long-term flow durability tests. Refer to the table below for the recommended replacement time.

*The durability varies depending on the usage environment and conditions. (pressure, temperature, etc.)



*The above information is for Model FMC-30.
*When using FMC-25, replace the Flow Vane ASSY based on the dirt on the internal parts because FMC-25 supports a lower flow volume range and has less wear on parts than FMC-30.

Specifications

Model		FMC-25-1F	FMC-25-2F	FMC-30-3F	FMC-30-4F
Size (Thread)		Rc 1/8	Rc 1/4	Rc 3/8	Rc 1/2
Body material		Brass			
Flow Vane ASSY material (Plastic part)	**Outer cylinder**	Polycarbonate			
	Impeller	Polypropylene			
	Inner sleeve	Polyamide			
	Stopper				
Pressure unit		**MPa**	**kgf/cm²**	**bar**	**PSI**
Working pressure *1		1.0	10	10	145
Working flow range	**L/min**	0.6 to 6		2 to 20	
Seal material (Mark)		Fluoro rubber (FKM)			
Working temperature range *2		+10˚C to +80˚C			

Flow Direction

Fluid flow can be bi-directional.

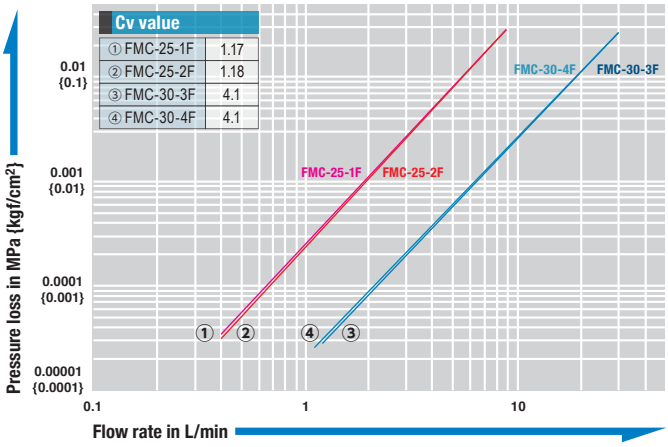
Maximum Tightening Torque

Nm {kgf•cm}

Size (Thread)	Rc 1/8	Rc 1/4	Rc 3/8	Rc 1/2
Torque	5 {51}	9 {92}	12 {122}	30 {306}

Flow Rate – Pressure Loss Characteristics

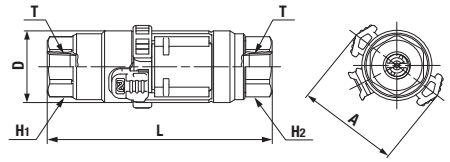
[Test conditions] -Fluid : Water -Temperature : 23˚C



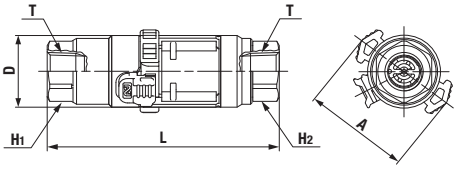
Models and Dimensions

WAF : WAF stands for width across flats.

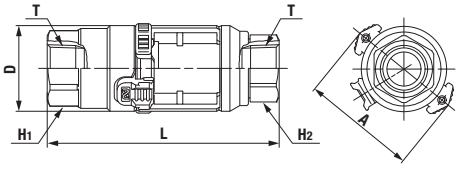
FMC-25-1F Small diameter type



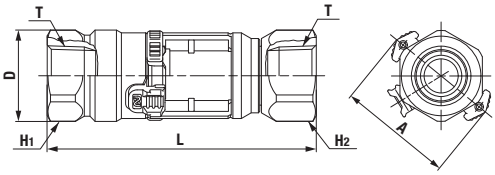
FMC-25-2F Small diameter type



FMC-30-3F



FMC-30-4F



Model	Application	Mass (g)	Dimentions (mm)					
			L	øD	H1 (WAF)	H2 (WAF)	T	A
FMC-25-1F	R 1/8	128	(79)	25	Hex.19	Hex.19	Rc 1/8	(36)
FMC-25-2F	R 1/4	122	(81)	25	Hex.19	Hex.19	Rc 1/4	(36)
FMC-30-3F	R 3/8	167	(81)	30	Hex.24	Hex.21	Rc 3/8	(40)
FMC-30-4F	R 1/2	256	(94)	32	Hex.29	Hex.29	Rc 1/2	(40)

List of Replacement Parts

Part Name	Part No.	For	Appearance
Flow Vane ASSY	CB67393	FMC-25-1F FMC-25-2F	
	CB66137	FMC-30-3F FMC-30-4F	
Inner sleeve *Two O-rings are included.	CB67394	FMC-25-1F FMC-25-2F	
	CB67052	FMC-30-3F FMC-30-4F	
Stopper	CQ48710	All of the series	

*1: The normal allowable fluid pressure under continuous use. Exceeding the working pressure may cause damage and leakage.
*2: The operable temperature range depends on the operating conditions.

⚠ Safety Guide

Read without fail and observe the "Instruction sheet" that comes with the product and the following pages in the Quick Connect Couplings General Catalog; [Precautions Relating to the Use of All CUPLA].

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