



YOSHITANI

Watching for fires

吉谷式 F5型消防ポンプ

YOSHITANI PUMP TYPE F5



Pump assembly

Yoshitani Two-stage Balance Turbine Pump

The two-stage balance turbine pump with three-dimensional impeller is precisely finished using shell-mold casting, maintaining excellent balance and delivering high performance. This pump is also known for its high durability and also used for industrial purposes.

**好実績
Good track record
高評価
High evaluation**

This pump is supplied as an OEM product to other companies in the same industry and special equipment makers in various industries.



Y mark as a sign of trust



Main component:
Three-dimensional impeller

Durability

耐久性

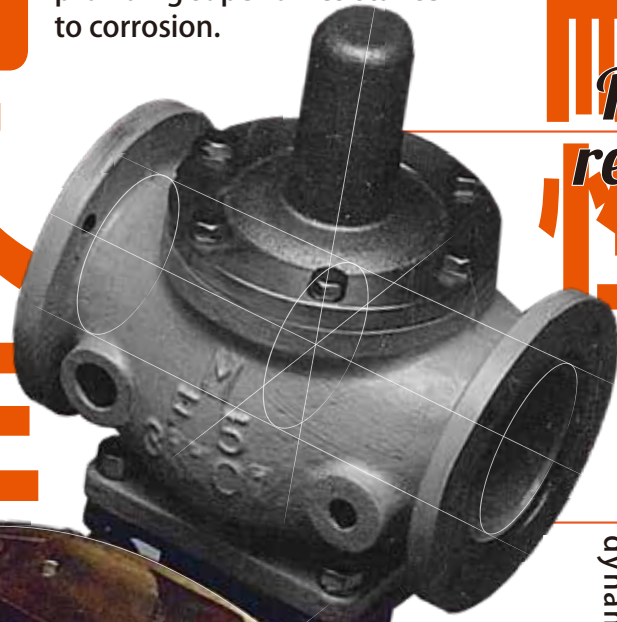
The main unit is made of bronze and the shaft is made of SUS, providing superior resistance to corrosion.

F5

**耐圧
性能**

*Pressure
resistance*

Pressure resistance
of main unit:
**Higher than
3.0MPa**



Impeller Casing

Vacuum Pump

高信頼性

*High
reliability*

For the purpose of bearing protection, dynamic balance correction is applied.



Comparison of Pump Specifications

As of October 2018

Type	F 5	F 15	F 50	F 33A	
Grade	A-2	A-1 or A-2	A-1	A-1 or A-2	
Shaft sealing method	Gland packing / Mechanical seal	Gland packing Mechanical seal	Gland packing	Mechanical seal	
Shaft greasing	Pump gland & Second bearing / Second bearing	Pump gland & Second bearing / Second bearing	Pump gland & Second bearing	Not required	
Material	Impeller	Copper alloy casting	Copper alloy casting (CAC)	Aluminum casting (AC)	
	Low and high pressure cover	Copper alloy casting	Copper alloy casting (CAC)	Aluminum casting (AC)	
	Guide vane	Copper alloy casting	Copper alloy casting (CAC)	Aluminum casting (AC)	
	Pump shaft	Special stainless steel	Special stainless steel	Special stainless steel	
Anti-corrosive treatment	N/A	N/A		Special composite coating	
Weight	153kg	157kg	—	103kg	
Water flow capacity	Water discharge pressure 0.85MPa	2200 L/min	(A-2) 2700 L/min	(A-1) 3800 L/min	(A-2) 2500 L/min
	Water discharge pressure 1.40MPa	1400 L/min	(A-2) 2000 L/min	(A-1) 3600 L/min	(A-2) 2000 L/min
Shut-off performance (main pump + oilless 1200 cc VP)	2.0MPa	2.0MPa	2.4MPa	2.0MPa	

* For grade A-1, use a water intake valve with a nominal size of 90.

* Copper alloy casting is resistant to corrosion.

* The water flow capacity and shut-off performance described in the table may not be achieved depending on the pipe shape or the vehicle.

Pump Performance Based on Ministerial Ordinance	Pump Grade	Specified Water Discharge		High Pressure Water Discharge	
		Water Discharge Pressure	Water Flow Capacity	Water Discharge Pressure	Water Flow Capacity
	A-1	0.85MPa	Min. 2800 L/min.	1.4MPa	Min. 2000 L/min.
A-2	0.85MPa	Min. 2000 L/min.	1.4MPa	Min. 1400 L/min.	

Non-fire Use Cases

Fire trucks, water sprinklers (roads, racetracks, golf fields, etc.), water cannon trucks (dust suppression in mines and on construction sites, lawn watering in golf fields and the like, and fishing net washing)

Yoshitani Kikai Seisakusho developed, engineered and successfully carried out prototype testing of A1-grade fire pumps ahead of other pump manufacturers, clearing specification testing, and obtained the first national approval in 1955.

Dealer



株式会社

吉谷機械製作所

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ISO14001:2015
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