

## Motor Valve

### Model: ML-FD

ML-FD Type dual seat two-way valve is designed for flow control of cold/hot water, oil, steam and gases.

The ON-OFF characteristic is for two-position control, while the linear characteristic is for proportion control. Since the valve is a double seat valve that allows certain leakage, it is not suitable for applications where complete closing is required.



### Features

- Large flow, suitable for large pressure differential.
- Less water hammer when opening/closing valve.

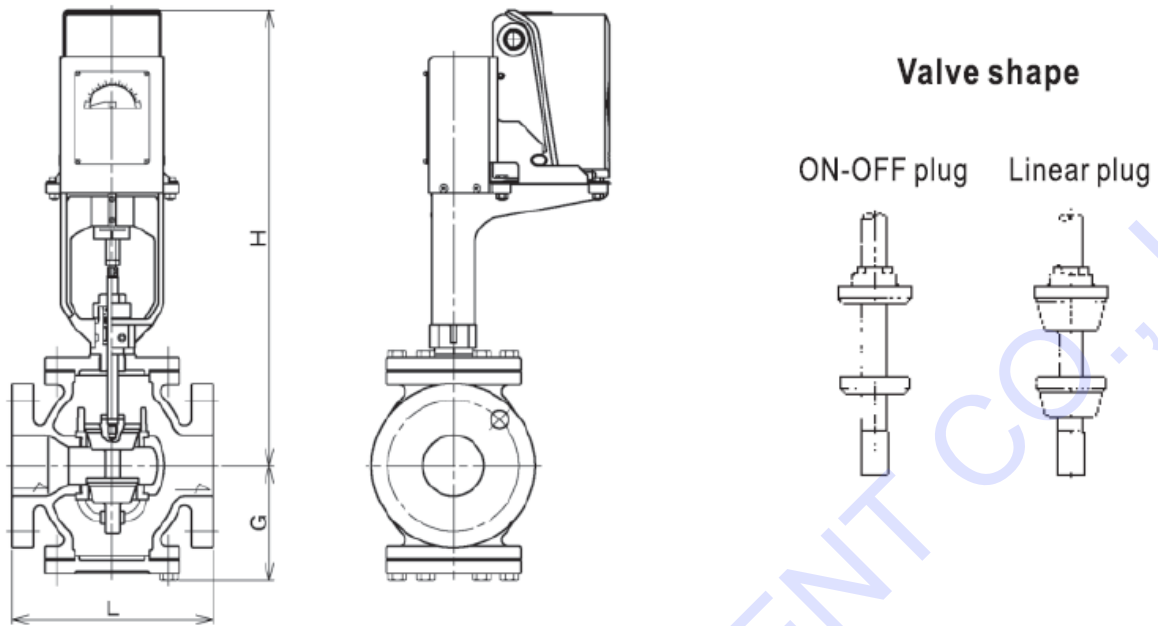
### Specifications

Model name (Type)	ML-FD	
Code name	MLFD-BD	MLFD-BS
Applicable fluid	Water, hot water, oils*1 & gases	Steam
Rated pressure	1.0MPa	
Fluid temperature	Max. 100°C	Max. 180°C
Ambient temperature	-10~60°C	
Plug characteristics	ON-OFF and Linear	
Leakage allowance	Less than 0.5% of rated flow	
Protection	Splash-proof, for indoor installation*2 (Equivalent to IP54 when waterproof cable ground is used.)	
End connection	Flanged JIS 10KFF	
Materials	Body(Cast iron), Trim(Cast bronze)	
Valve body pressure test	Hydraulic 1.5MPa	

\*1. If there is any local regulation for fuel oils or diesel oil, confirm the body materials according to the regulation.

\*2. Rain cover for outdoor installation is available upon your request.

## Construction



## Dimensions

(mm)

Size	L	G	H	Mass (kg)
32(1¼")	180	100	460	19
40(1½")	180	100	460	20
50(2")	180	110	470	21.5
65(2½")	215	125	487	27.5
80(3")	260	136	490	34.5
100(4")	300	163	523	54.5
125(5")	360	194	553	76
150(6")	382	224	577	112

Flange code JIS 10KFF

## Table of Cv value and applicable differential pressure limit

Size	Cv value	Differential pressure limit (MPa)
32(1¼")	20	1.0
40(1½")	30	1.0
50(2")	50	1.0
65(2½")	75	1.0
80(3")	105	1.0
100(4")	170	1.0
125(5")	250	0.5
150(6")	360	0.35