REGULATING VALVES FOR DISTRICT HEATING & COOLING SYSTEM

Features

to its purpose of use.

 High—performing differential pressure flow control valve that is installed in a supply or return line of a load device to control the differential pressure and flow comprehensively.

YDF-2F, 20F Type Differential Pressure & Flow Control Valve

This valve performs the two control functions of restricting flow and maintaining a differential pressure of supply and return lines, It can be installed in a supply line or return line according

- In addition to differential pressure control, it offers a wide flow control range, from small to large flows, thanks to an embedded equal % cone for flow control.
- The diaphragm is separated from the body and thus is not affected by temperature. Since it is a perfect balance type, the set differential pressure does not change due to pressure fluctuations.
- · Has a solid structure, and thus offers an outstanding level of durability.
- · A diaphragm method enables to be installed horizontally or vertically.
- The opening percentage of the valve can be easily checked, thanks to the attached indicator.
- · Leakage from packings can be visually checked, enabling easy identification of the appropriate time for repair.



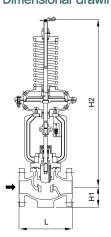
YDF-20F

Specification

T _y	/pe	YDF-2F	YDF-20F				
Applicable pressure		Maximum 1,0MPa	Maximum 2,0MPa				
Applicable fluid		Cold / hot water					
Fluid temperature		Maximum 120°C					
Differential pressure control range		0.01~0.18MPa					
		0.15~0.50MPa					
Flow control range		±5% of the constant flow rate					
End connection		KS 10K RF FLANGE	KS 20K RF FLANGE				
Materials	Body	GC200	SCPH2				
	Disc, seat	CAC406	STS				
	Diaphragm	EPDM					
Hydraulic test pressure		1,5MPa	3,0MPa				

- \blacktriangleright The basic pressure regulating range is 0.02~0.15MPa
- \blacktriangleright When using the valve, install a strainer (40 MEsh or more) on the leaflet,

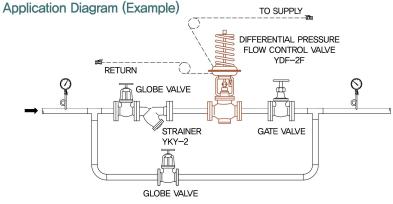
Dimensional drawing



Dimensions

Type YDF-2F			YDF-20F				O.		
Size				Weight (kg)				Weight (kg)	Cv
25A	184	62,5	640	20	197	62,5	640	21	8
32A	180	70	650	26	180	70	650	26	12,5
40A	222	80	658	28	235	80	658	30	18
50A	254	95	670	41	267	95	670	43	43
65A	276	115	720	48	292	115	720	54	64
80A	294	120	720	56	318	120	720	65	84
100A	352	130	735	72	368	130	735	66	152
125A	400	150	775	130	400	150	775	152	200
150A	451	180	800	162	473	180	800	126,2	288

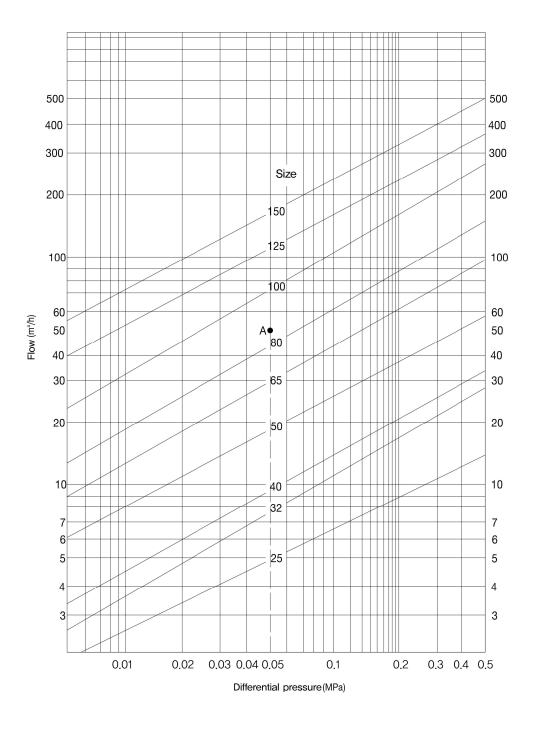
▶ Made-to-orders are available for valves with a size of 200 or larger.



* Install the pressure tube on the side of the main pipe.

YDF-2F, 20F Type Differential Pressure Flow Control Valve

Selecion of size



 $Cv = \frac{1.167 \times Q \times \sqrt{r}}{\sqrt{\Delta P}}$

Here, Cv: Valve flow coefficient

Q: Flow (m³/h)

r: Density (Water = 1)

ΔP: Pressure difference between the valve's inlet and outlet(MPa)