

MULTI-FUNCTION VALVE

Fig.: KS100/KS100R



Fig. KS100



Fig. KS100R

■ Features and options

- Combination of 4 valves:
 1. Shut off valve
 2. Flow control valve (globe valve)
 3. Non slam check valve
 4. Double regulating valve
- 2 types of body: straight valve and angle pattern
- Horizontal or vertical installation
- Lower head loss to avoid water hammer
- Corrosion resistance: the inside and outside of the valve body are coated with epoxy resin powder
- Brass bearings reduce wear during operation
- Slow closing time: 3-60s (adjustable, depending on different diameter and use occasions)
- Mainly used for clean water, sewage without impurities, water supply, fire protecting, cooling, air conditioning system

■ Technical data

DN(mm)	100 – 400
Service pressure	1.6MPa
Medium	Clear water
Service temperature	-10°C-80°C
Flange Standard	EN 1092-2

Test pressure (MPa)	
Shell test (WP*1.5)	2.4
Seal test (WP*1.1)	1.76
Air	0.6
Test standard	EN 12266-1

■ Dimensions(mm) and Cv values (m³/h)

DN		100	125	150	200	250	300	350	400
KS100	L	400	450	500	610	710	830	900	960
	H	280	308	344	435	480	575	614	688
KS100R	D	290	325	355	440	505	600	640	696
	H	280	308	344	435	480	575	614	688
Cv		300	428	673	1200	2000	2500	2900	3900

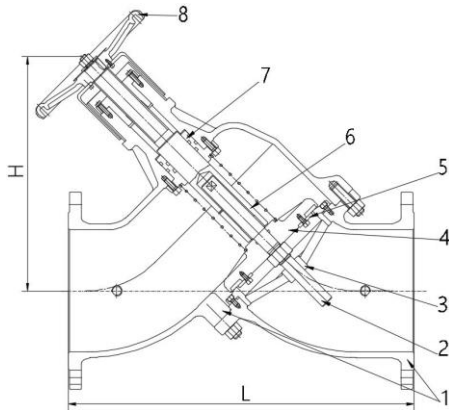


Fig. KS100

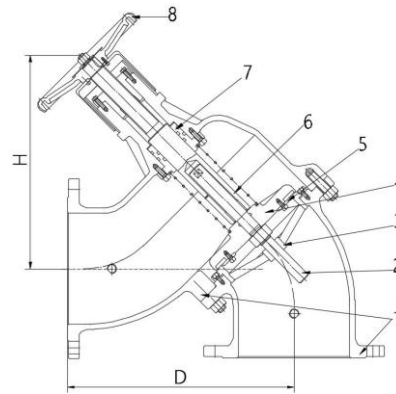


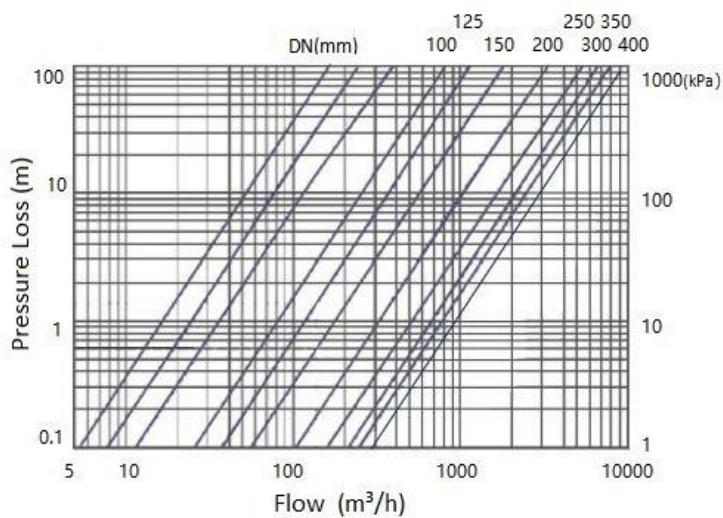
Fig. KS100R

■ Main material

No.	Part Name	Material
1	Body	Ductile iron/Cast steel (option)
2	Stem	Stainless steel
3	Seat	WCB
4	Disc	Ductile iron
5	Lower plate	Carbon steel
6	Guide bar	Stainless steel
7	Shaft bearing	Brass
8	Hand wheel	Ductile iron

Optional: with two tapping points connect to test the pressure or flow

■ Pressure loss



Pressure difference calculation formula:

$$\Delta P = (1.167 Q / C_v)^2$$

ΔP : Pressure difference of valve in full open position, bar

Q: Flow, m³/h

C_v: Flow coefficient, m³/h

■ **Product advantage**

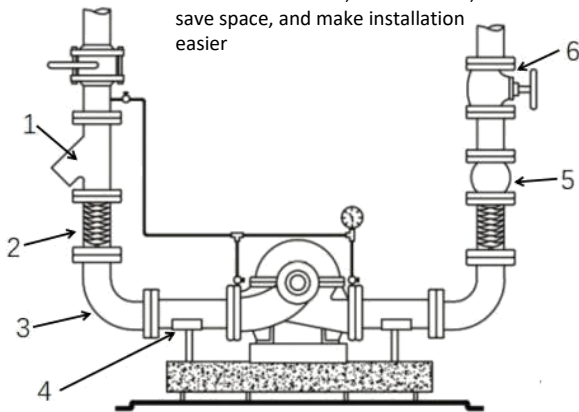


Fig.T300R

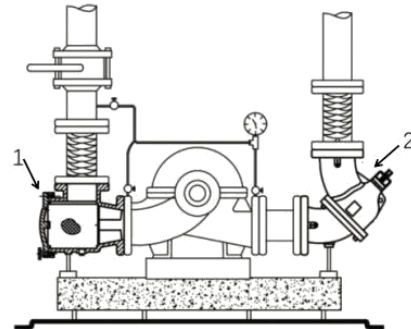


Fig.KS100R

Compared with the traditional pipe, using our multifunctional valve, with T300R strainer, can save cost, save space, and make installation easier



Conventional pipe



The use of KS100R multifunctional valve and T300R deflector pipe

1. "Y" Strainer
2. Flexible connectors
3. 90° elbow
4. Suction spool piece
5. Discharge check valve
6. Discharge globe valve

*Economic
Save space
Easy installation*

1. Fig.T300R, T type Strainer
2. Fig.KS100R, multi-function valve



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