3-WAY CAST BRONZE VALVE



YTV-6000 series

Application

Used as a control or blocking valve in heating, ventilation, air conditioning system & domestic water facilities.

• Hot water : Maximum 160°C 16k Max (Maximum pressure).

· Domestic water.

• Cold water : Maximum -15°C.

Water with the following additives.
Oxygen absorption chemical / Glycol(antifreeze) with the maximum 50%.

• Refrigerant R12, R22, R502.

• BSPT 16k, Thread Connection.

Technical Data

	Val	Close-Off Rating (Max,ΔP(kgf/㎝))				
Valve Size (A)	Type Reference	Cv	Max. Pressure (kgf/㎝²)	Lift (mm)	YGC(D) Actuator Series	
					41	51
15	YTV-6015	4.7	16	19	10	15
20	YTV-6020	7	16	19	8.7	15
25	YTV-6025	11.7	16	19	8	15
32	YTV-6032	18.7	16	19	5	13
40	YTV-6040	29	16	19	3.5	12
50	YTV-6050	47	16	19	3	7.2

- Max.Pressure(kgf/cm²)=Maximum pressure in a opened or closed valve.
- Max,ΔP(kgf/cm²)=Maximum differential pressure in a closed valve.
- Water: Range ability 90%, Valve size is 1 step increased when flow velocity is above 3m/s.

Steam: Range ability 55%, Valve size is 1 step increased when flow velocity is above 10m/s.



Technical Data

Body ThreadPT (Pipe Threaded)Valve Body RatingKS 16Kgf/cm2

Leakage : 0.01% Valve capacity at full travel ANSI B 16.104-1976 ClassIV

• Flow Characteristics : Equal Percentage

• Range Ability : 25:1

• Recommended Actuator : YGC(D)-41,YGC(D)-51

Body : Cast Bronze(BC6)

Bonnet : Brass, Cast Bronze(BC6)

Stem : STS304, STS410

Materials

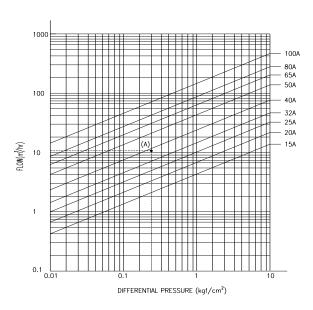
Plug : STS304 Seat-Ring : SSC14A

Packing Box : Single Gland Sealing (E.P.D.M) / Teflon, Viton O-ring

Valve sizing

• First side= 3kgf/cm², Second side= 2.7kgf/cm², Flow velocity= 12m²/hr.

Valve size is : ΔP= 0.3kgf/cm², therefore the valve size is 40A at the point A when the flow velocity= 12m²/hr.

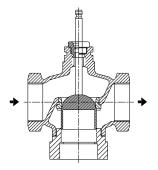


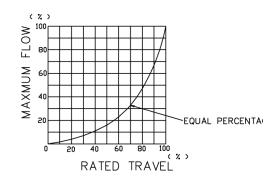
Design characteristics

Valve & controller are provided separately, and the assembly does not require special tools or modification. Valve body material is made of Ductile Iron, and the Stem, Seat-ring & Plug material are of Stainless steel(see the Valve structure & Fluid direction figures).

Plug shape is divided into Parabolic(P), Profile(V), etc. according to the valve size & unique range ability, and Perforate shape is also available in an unstable condition such as cavitation.

- 1) Valve Design characteristics
 - · Valve stem is decreased : Open.
 - · Valve stem is increased : Close.



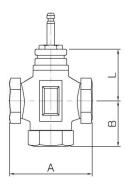


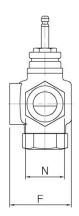
2) Gland sealing box characteristics

- A pair of O-Rings & dust protection strip-attached Sealing Gland.
- Self-adjusting Teflon sleeve-attached Sealing Gland.
- Sealing Gland is changeable without separating the valve



Shape Dimension



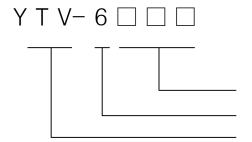


Size(A)	PT	А	В	L	N	F	Weight(kg)
15	1/2	100	64	65	29	64	1.5
20	3/4	100	62	65	35	64	2.4
25	1	105	67	68	44	64	2.9
32	1 1/4	110	73	70	54	84	3.9
40	1 1/2	140	73	82	60	114	5.5
50	2	150	84	82	74	126	8.9

Order specifications

Product name & Type are required to be filled with the type appendages when ordering.

Ex) Three-way valve YTV-6020(6000series)



Valve Size(A): 15 ~ 50A

Valve Type: 6-16Kgf/cm2, 2Way Valve

Product Group : Thread Type