

# YTD, YTP-2 Type TEMPERATURE REGULATING VALVE



YTD-2 Type



YTP-2 Type

These models are direct-operated temperature regulating valves for heating purpose and used on hot water tanks, heat exchangers and heavy oil heating vessels. Being direct-operated type, the construction of this valve is simple and ensures easy handling and steady operation. Despite its smaller size than direct-operated valves, pilot type has considerably large storage capacity, and can be used under the condition of high differential pressure, especially when temperature regulation of heavy storage tank is needed.

## FEATURES

- Sensitive operation
- Easy construction and installation
- As self-operated in response to the temperature variance, no auxiliary power is needed.
- High durability with the copper wire pipe covered with flexible wire.

## SPECIFICATION

Items	YTD-2	YTP-2
Applicable fluid	Steam, hot water	Steam
Heatable fluids	Water, oils, liquids gas	
Seat type	Direct-operated type	Pilot type
Applicable temperature range	40 ~ 120°C	
Applicable temperature for body	Max. 220°C	
Leakage allowance	Lower than 0.5% of rated flow	Lower than 0.05% of rated flow
Applicable pressure for thermo bulb	Max. 10kgf/cm <sup>2</sup> g	
Length of capillary tube	2m (Standard)	
End connection	KS 10K RF FLANGE	
Materials	Body : Cast iron    Heat-sensitive indicator: Cu Tube Disc / seat : Cast bronze	
Valve body pressure test	Hydraulic 15kgf/cm <sup>2</sup> g	

▶ Length of leadtube : 2m standard, max. 5m is available upon request

## PRESSURE LIMIT AT THE INLET

Size	25, 40	50, 65	80	100
Limit (kgf/cm <sup>2</sup> g)	10	7	5	4

## SET DEVIATION OF TEMPERATURE

Length of lead tube	Set deviation	
	A	B
2m (standard)	±2°C	±3°C
2 ~ 3.5m	±2.5°C	±3.5°C
3.5 ~ 5m	±3°C	±4°C

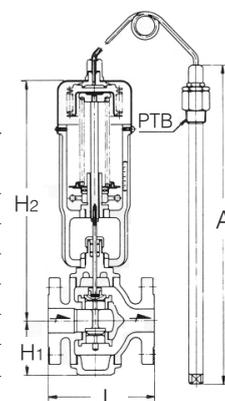
A : When maximum temperature of adjustable temperature range is 100°C or below

B : When all or part of a adjustable temperature range exceed 100°C

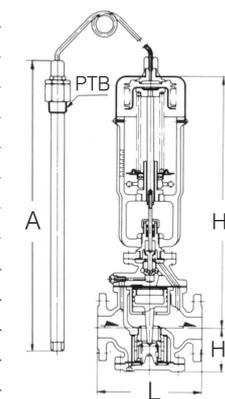
## ADJUSTABLE TEMPERATURE RANGE

Adjustable temperature range	Maximum temperature allowance
40 ~ 60°C	70°C
50 ~ 70°C	80°C
60 ~ 80°C	90°C
70 ~ 90°C	100°C
80 ~ 100°C	110°C
100 ~ 120°C	130°C

## CONSTRUCTIONS



YTD-2 Type



YTP-2 Type

## DIMENSIONS

Size	L	H1	H2	B	Cv	Weight (kg)
15 (1/2")	152	57	460	480	1	10.2
20 (3/4")	152	57	460	480	2.5	10.6
25 (1")	170(140)	65 (70)	470(485)	480	4	13.6(11.4)
32 (1 1/4")	200	75	485	480	6.5	18.5
40 (1 1/2")	200(160)	75 (75)	485(490)	480	9(8)	18.7(14.4)
50 (2")	215(205)	80 (100)	495(525)	480	16(12.5)	25.3(21.6)
65 (2 1/2")	245(215)	102 (115)	505(535)	480	25(18)	38.9(28.3)
80 (3")	285(260)	122 (125)	530(580)	480	36(25)	53.6(36.3)
100 (4")	320(300)	140 (150)	545(605)	480	64(40)	80.8(48.5)
125 (5")	380	175	545	480	100	83.3
150 (6")	420	199	575	480	144	101.2
200 (8")	500	253	635	480	256	183

▶ Sizes ( ) are for YTD-2