



"ADCATROL" TEMPERATURE REGULATORS SELF ACTING - NON BALANCED SIMPLE SEAT TR25S/R – Reverse action for cooling systems (Forged steel valves & T series thermostats)

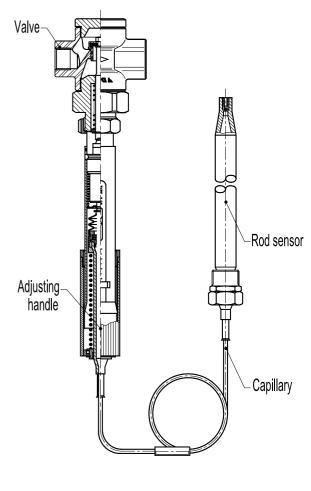
DESCRIPTION

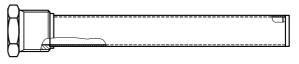
The series TR25-R valves are designed for temperature control of cooling systems where the valve open on temperature rising. They are single seat type in order to guarantee an excellent tightness and are to be coupled with the thermostats model T.205 and T.405.The liquid filling in the thermostat expands with a rise in temperature operating the valve.

The valves are used for temperature control in cooling systems.

Connections are female screwed or flanged. MAIN FEATURES Single seated, two way, reverse action valve. Leakage less than 0,05% of full Kv

OPTIONS : USE: AVAILABLE	Valves for heating process. Water and other compatible fluids.
MODELS:	TR25S-R - Steel construction valve body
SIZES: CONNECTIONS:	DN 1/2" - DN 1" – DN15 - DN 25. Female screwed ISO7/1Rp(BS 21) . Flanged DIN or ANSI.
CONTROL MODE: THERMOSTATS:	Proportional T.202 - 200N (max.closing force) T.405 - 400N (max.closing force)
THERMOSTAT RANGES: CAPILLARY	T.205 - 0-60 ; 30-90 and 60-120°C T.405 - 0-120 ; 40-160 °C
LENGHTS: HOW TO SELECT:	3 m as standard Never size the valve according to the pipe diameter in which it has to be fitted but according to the required actual flow of steam or water. Refer to valve calculation data sheet or consult the factory.
VALVE LIMITING CONDITIONS:	Body design conditions: PN40 40 bar at 120°C 24 bar at 350 °C Min.working temperature: -10°C





Sensor pocket PK

INSTALLATION:

Horizontal installation with the thermostat in the vertical position in order to reduce wear. In case of valve temperatures up to 150°C the thermostat may be fitted below or above the valve. An "Y" strainer should be provided upstream the valve. See IMI, installation and maintenance instructions.



We reserve the right to change the design and material of this product without notice.





SPECIFICATIONS								
Туре	Conn. DN	Opening Ø (mm)	Kvs m3/h	Valve stroke				
TR25-15	15	15	1,9	6				
TR25-20/15	20	15	1,9	6,5				
TR25-20/20	20	20	4,2	6,5				
TR25-25/20	25	20	5	7				

MAX.PERMISSIBLE DIF.PRESSURES							
With T.205 Thermostat							
Press.	Press. Valve Seat						
bar	Size	Ø(mm)					
5,3	15	15					
5,3	20	15					
2,9	20	20					
2,9	25	20					
With T.405 Thermostat							
15	15	15					
15	20	15					
9	20	20					
9	25	20					

PROPORTIONAL BAND

The proportional band is the temperature change required for the valve to move from fully open to fully closed. It depends on the valve stroke and on the thermostat movement per $^{\circ}C$, and is calculated as follows:

Proportional band:

Thermostat movement in mm per °C :

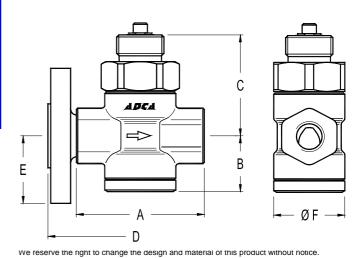
T.205 and T.405 : 0,5 mm / °C

A proportional band in the range 8-13°C is suitable for most applications. A smaller proportional band is not ideal where heat load varies rapidly.

	THERM	OSTAT E	IMENSI	ONS (mr	n)
TYPE	А	В	с	E	Wgt Kg
T.205	305	405	210	22	1,8
T.405	385	525	390	22	2,6

DIMENSIONS (mm)-Screwed						DIN Flanges		
SIZE DN	А	В	с	F	WGT. Kgs	D	E	WGT. Kgs
1/2"	90	40	70	50	1,2	130	47,5	2,6
3/4"	90	40	70	50	1,2	150	52,5	3,2
* 3/4"	100	45	75	55	1,6	150	52,5	3,6
1"	100	45	75	55	1,6	160	57,5	4,2

* Only model TR25-20/20



B min.

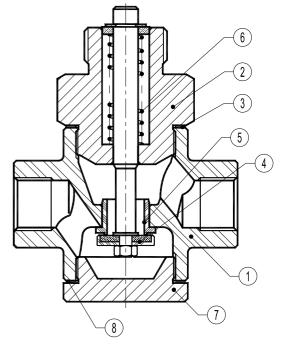


Produced in accordance with Article 3, paragraph 3 of the PED - European Pressure Equipment Directive - 97/23/EC IS TR25AR.30 E 12.07





MATERIALS					
POS.	DESIGNATION	MATERIAL			
1	Body	P250GH (1.0460)			
2	Bonnet	C45E (1.1191)			
3	* Gasket	St.St./Graphite			
4	* Valve plug	St.St./NBR/PTFE			
5	Seat	AISI 316 (1.4401)			
6	* Spring	AISI 302 (1.4300)			
7	Сар	A105 (1.0432)			
8	* Cap gasket	St.St./Graphite			
*Available spare parts					



SENSOR POCKETS PK

Sensor pockets of stainless steel can be supplied to all TR series self-acting thermostats with rod sensors. They are used where it is impossible to empty the system or the tank.

Use of sensor pockets implies delay of heat transfer to the rod sensors and thus a longer reaction time for the controllers. This is to some extent counteracted by filling up the sensor pockets with paste or oil.

INSTALLATION

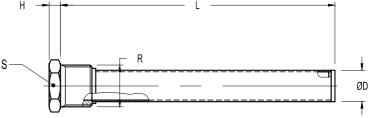
The installation site for the sensor pocket is arbitrary when paste is applied. When using oil the sensor pocket must point somewhat downwards. **MATERIAL**

Stainless steel 1.4436

LIMITING CONDITIONS

40 bar at 120°C 24 bar at 350°C

POCKET DIMENSIONS (mm)							
TYPE	D	Н	L	S	R		
PK2	25	9	218	36	1"		
PK4	25	10	390	45	11/4"		





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