

5.61

TEMPERATURE REGULATORS



VALVOIND Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461

TR25S  
ADCATROL

TEMPERATURE REGULATORS  
SELF ACTING - NON BALANCED SIMPLE SEAT  
(Forged steel valves & T series thermostats)

PN40

Da Ø 1/2" a Ø1"  
Da DN15 a DN25

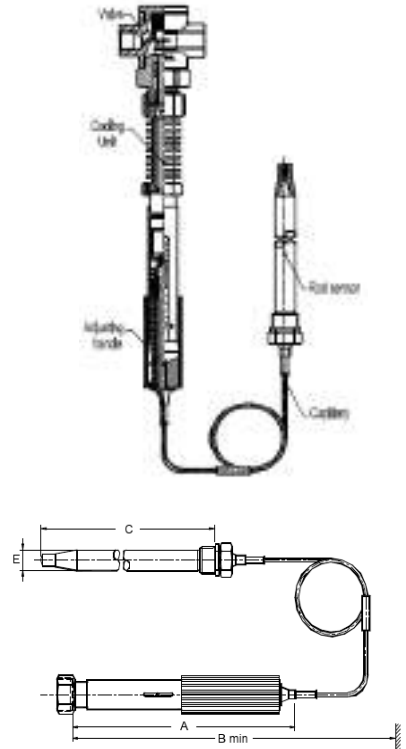
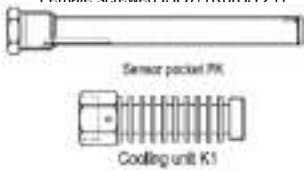
- OPTIONS**  
Valves for cooling applications.
- USE**  
Saturated and superheated steam.  
Hot and superheated water.
- MODELS**  
TR25S - Steel construction valve body
- CONTROL MODE**  
Proportional.
- CONNECTIONS**  
Female screwed ISO7/1Rp(BS 21)

TERMOSTATI		
	FORZA DI CHIUSURA MAX	SCALA DI TEMPERATURA STANDARD
T.205	200N	0-60°C
		30-90°C
		60-120°C
T.405	400N	0-120°C
		40-160°C

- CONNECTIONS**  
Female screwed ISO7/1Rp(BS 21).
- CAPILLARY LENGTHS**  
3 m as standard
- COOLING UNITS**  
Cooling unit protects the stuffing box of the thermostat. Type K1 is recommended at valve temperatures between 150 and 250°C.

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. In case of valve temperatures between 150 and 250°C a cooling unit type K1 has to be applied with connection downwards. An "Y" strainer should be provided upstream the valve. See IMI, installation and maintenance instructions.



SPECIFICATIONS				
Type	Conn.DN	Opening Ø (mm)	KVS (m³/h)	Stroke (mm)
TR25-15/4	15	4	0,20	6,0
TR25-15/6	15	6	0,45	6,0
TR25-15/9	15	9	0,95	6,0
TR25-15/12	15	12	1,70	6,0
TR25-15	15	15	2,75	6,0
TR25-20/9	20	9	0,95	6,5
TR25-20/15	20	15	2,75	6,5
TR25-20/20	20	20	5,00	6,5
TR25-25/20	25	20	5,00	7,0

MAX.PERMISSIBLE DIF.PRESSURES		
Thermostat T205:	DN15, Seat Ø4mm e Ø6mm	21 bar
	DN15, Seat Ø9mm	13 bar
	DN15, Seat Ø12mm	9.3 bar
	DN15	5.3 bar
	DN20, Seat Ø15mm	5.3 bar
Thermostat T405:	DN15, Seat Ø20mm	2.9 bar
	DN15, Seat Ø4mm e Ø6mm	40 bar
	DN15, Seat Ø9mm	38 bar
	DN15, Seat Ø12mm	24 bar
	DN15	15 bar
	DN20, Seat Ø15mm	9 bar
	DN25, Seat Ø20mm	9 bar

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 °C, and is calculated as follows:

Proportional band:  $\frac{\text{Valve stroke (mm)}}{\text{Thermostat mov. (mm/°C)}}$

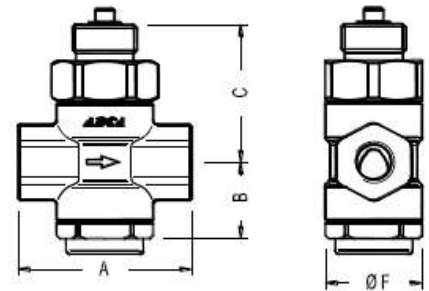
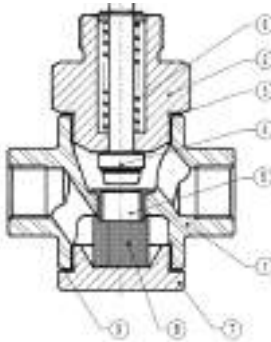
Thermostat movement in mm per °C: T.205 and T.405: 0,5 mm / °C

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.

THERMOSTAT DIMENSIONS (mm)					
TYPE	A	B	C	ØE	Wgt Kg
T.205	305	405	210	22	1,8
T.405	385	525	390	22	2,6

MATERIALS		
POS.	DESIGNATIONCRIZIONE	MATERIAL
1	BODY	P250GH / 1.0460
2	BONNET	CK45 / 1.1191
3	GASKET	St.St./Graphite
4	VALVE PLUG	AISI 316 / 1.4401
5	SEAT	AISI 316 / 1.4401
6	SPRING	AISI 302 / 1.4300
7	CAP	CK45 / 1.1191
8	STRAINER SCREEN	AISI 304 / 1.4301
9	CAP GASKET	St.St./Graphite

\*AVAILABLE SPARE PARTS



VALVE DIMENSIONS (mm)					
SIZE DN	A	B	C	ØF	WGT. Kg
1/2"	90	40	70	60	1,2
3/4"	90	40	70	60	1,2
" 3/4"	100	45	75	55	1,8
1"	100	45	75	55	1,8

\* Only model TR25-20/20

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.

POCKET DIMENSIONS (mm)					
TYPE	D	H	L	S	R
PK2	25	8	210	36	1"
PK4	25	10	290	45	1 1/4"

INSTALLATION

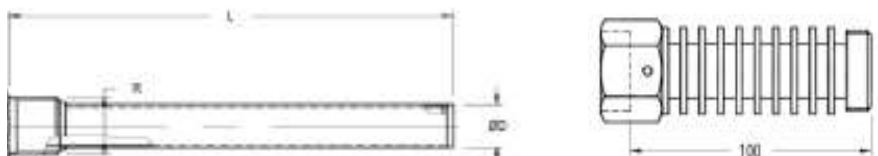
The installation site for the sensor pocket is arbitrary when paste is applied. When oil is used, the sensor pocket must point somewhat downwards.

MATERIAL

Stainless steel 1.4436

LIMITING CONDITIONS

40 bar at 120°C  
24 bar at 350°C



COOLING UNITS K1

The cooling units are used in connection with control valves and thermostats to protect the stuffing box. At valve temperatures between 150°C and 250°C a cooling unit of type K1 connected downwards should be applied.

For higher temperatures as well as for all hot oil systems please consult.



VALVOIND Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461

**TR25S/R  
ADCATROL**

**TEMPERATURE REGULATORS**  
SELF ACTING - NON BALANCED SIMPLE SEAT-Reverse action for cooling systems (Forged steel valves & T series thermostats)

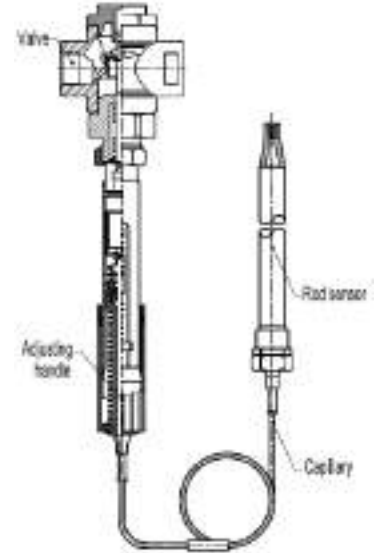
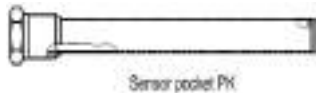
**PN40**

Da Ø 1/2" a Ø1"  
Da DN15 a DN25

- OPTIONS**  
Valves for heating process.
- USE**  
Water and other compatible fluids.
- MODELS**  
TR25S-R - Steel construction valve Body
- CONTROL MODE**  
Proportional.
- CONNECTIONS**  
Female screwed ISO7/1Rp(BS 21) . Flanged EN 1092-1 or ANSI.
- CAPILLARY LENGTHS**  
3 m as standard
- THERMOSTATS**  
T.202 - 200N (max. closing force)  
T.405 - 400N (max. closing force)
- THERMOSTAT RANGES**  
T.205 - 0-60; 30-90 and 60-120°C  
T.405 - 0-120; 40-160 °C
- VALVE LIMITING CONDITIONS**  
Body design conditions: PN40  
40 bar at 120°C  
24 bar at 350 °C  
Min. working temperature: -10°C

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

SPECIFICATIONS				
Type	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	4,2	7

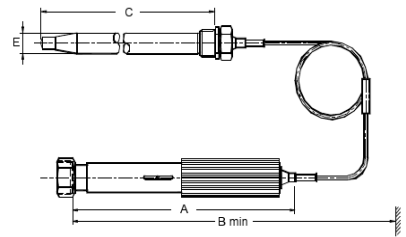


**INSTALLATION:**  
Horizontal installation with the thermostat in the vertical position in order to reduce wear. In case of valve temperatures up to 150°C the thermostat may be fitted below or above the valve. An "Y" strainer should be provided upstream the valve. See IMI, installation and maintenance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

**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 °C, and is calculated as follows:

$$\text{Proportional band: } \frac{\text{Valve stroke (mm)}}{\text{Thermostat mov. (mm/°C)}}$$

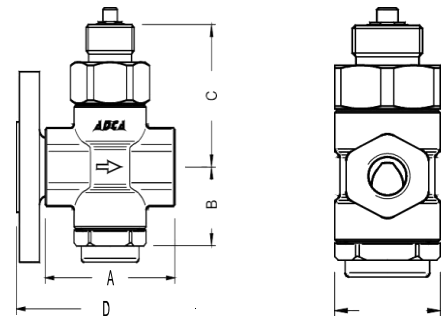
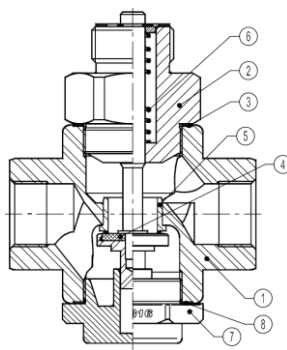
Thermostat movement in mm per °C: T.205 and T.405: 0,5 mm / °C  
A proportional band in the range 8-13°C is suitable for most applications. A smaller proportional band is not ideal where heat load varies rapidly.



TYPE	A	B	C	ØE	Wgt Kg
T.205	305	405	210	22	1,8
T.405	385	525	300	22	2,6

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	Cap	AISI 316 / 1.4401
8	* Cap gasket	St.St./Graphite

\*Available spare parts

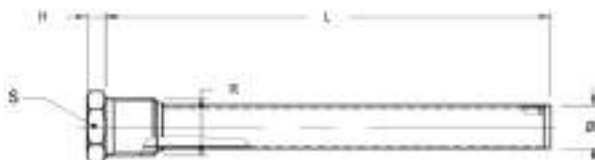


**SENSOR POCKETS PK**  
Sensor pockets of stainless steel can be supplied to all TR series self-acting thermostats with rod sensors. They are used where it is impossible to empty the system or the tank. Use of sensor pockets implies delay of heat transfer to the rod sensors and thus a longer reaction 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 oil is used, 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	H	L	R
PK2	25	9	218	36
PK4	25	10	300	45

DIMENSIONS (mm)-Screwed						EN 1092-1 Flanges		
SIZE DN	A	B	C	F	WGT. Kgs	D	E	WGT. Kgs
1/2"	90	60	70	50	1,2	120	47,5	2,6
3/4"	90	60	70	50	1,2	150	52,5	3,2
* 3/4"	100	65	75	55	1,6	160	52,5	3,6
1"	100	65	75	55	1,6	160	57,5	4,2

\* Only model TR25-20/20



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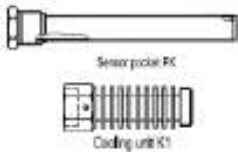
**TR25SS  
ADCATROL**

**TEMPERATURE REGULATORS  
SELF ACTING - NON BALANCED SIMPLE SEAT  
(Forged stainless steel valves & T series thermostats)**

PN40

Da Ø 1/4" a Ø3/8"

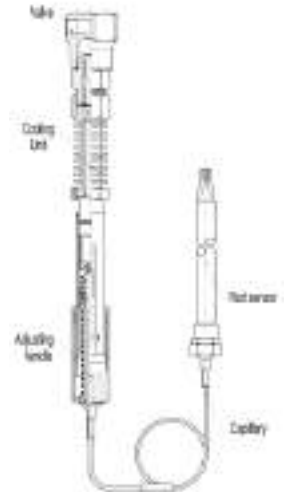
- OPTIONS**  
Valves for cooling applications.
- USE**  
Saturated and superheated steam.  
Hot and superheated water.
- MODELS**  
TR25SS – Stainless steel construction valve body
- CONNECTIONS**  
Female screwed ISO7/1Rp(BS 21) .



**CONTROL MODE:** Proportional  
**THERMOSTATS:** T.205 - 200N (max. closing force)  
**THERMOSTAT**  
**RANGES:** T.205 - 0-60 ; 30-90 and 60-120°C  
**CAPILLARY LENGTHS:** 3 m as standard  
**HOW TO SELECT:** 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

**COOLING UNITS:** Cooling unit protects the stuffing box of the thermostat. Type K1 is recommended at valve temperatures between 150 and 250°C.

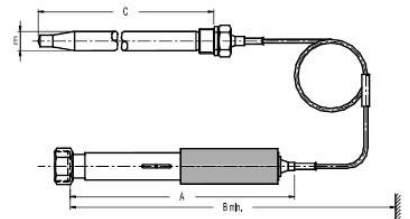


**INSTALLATION:**

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. In case of valve temperatures between 150 and 250°C a cooling unit type K1 has to be applied with connection downwards. An "Y" strainer should be provided upstream the valve. See IMI, installation and maintenance instructions.

SPECIFICATIONS				
Type	Conn. DN	Opening Ø (mm)	Kvs m3/h	Valve stroke
TR25-8/4	1/4"	4	0.2	6
TR25-8/6	1/4"	6	0.45	6
TR25-10/9	3/8"	9	0.95	6

MAX. PERMISSIBLE DIF. PRESSURES		
With T.205 Thermostat		
Press. bar	valve Size	Seat Ø(mm)
21	1/4"	4 and 6
13	3/8"	9



**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 °C, and is calculated as follows:

Proportional band:  $\frac{\text{Valve stroke (mm)}}{\text{Thermostat mov. (mm/°C)}}$

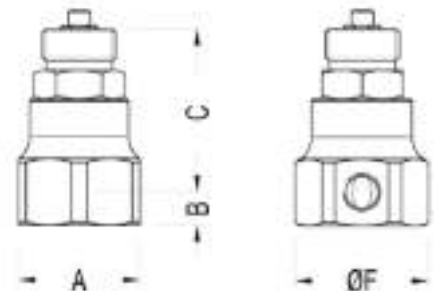
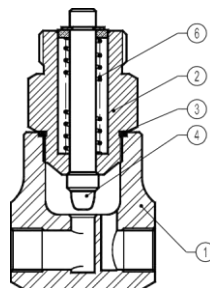
Thermostat movement in mm per °C:  
T.205 and T.405: 0,5 mm / °C

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.

THERMOSTAT DIMENSIONS (mm)					
TYPE	A	B	C	E	Wgt Kg
T.205	305	405	210	22	1.8

MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Body	AISI316 / 1.4401
2	Bonnet	AISI 304 / 1.4301
3	* Gasket	St.St./Graphite
4	* Valve plug	AISI 316 / 1.4401
5	* Spring	AISI 302 / 1.4300

\*Available spare parts



POCKET DIMENSIONS (mm)					
TYPE	D	H	L	S	R
PK2	25	9	218	26	1"
PK4	25	10	290	45	1 1/4"

VALVE DIMENSIONS (mm)					
SIZE DN	A	B	C	ØF	WGT. Kgs
1/4"	45	15	83	49	1,1
3/8"	55	15	83	60	1,1

**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**

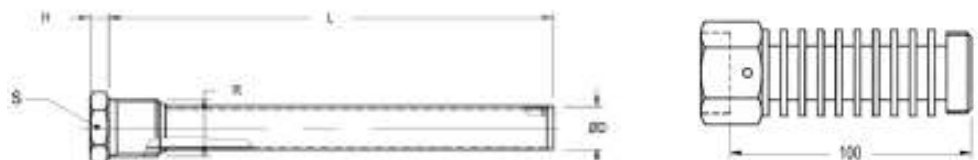
The installation site for the sensor pocket is arbitrary when paste is applied. When oil is used, the sensor pocket must point somewhat downwards.

**MATERIAL**

Stainless steel 1.4436

**LIMITING CONDITIONS**

40 bar at 120°C  
24 bar at 350°C



**COOLING UNITS K1**

The cooling units are used in connection with control valves and thermostats to protect the stuffing box. At valve temperatures between 150°C and 250°C a cooling unit of type K1 connected downwards should be applied. For higher temperatures as well as for all hot oil systems please consult.

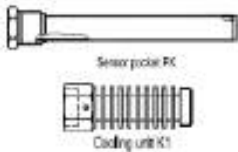
TR25SS  
ADCATROL

TEMPERATURE REGULATORS  
SELF ACTING - NON BALANCED SIMPLE SEAT  
(Forged stainless steel valves & T series thermostats)

PN25

Da Ø 1/2" a Ø1"  
Da DN15 a DN25

- OPTIONS**  
Valves for cooling applications.
- USE**  
Saturated and superheated steam.  
Hot and superheated water.
- MODELS**  
TR25SS – Stainless steel construction valve body
- CONNECTIONS**  
Female screwed ISO7/1Rp(BS 21) .



**CONTROL MODE:** Proportional  
**THERMOSTATS:** T.205 - 200N (max. closing force)  
T.405 - 400N (max. closing force)

**THERMOSTAT RANGES:** T.205 - 0-60 ; 30-90 and 60-120°C  
T.405 - 0-120; 40-160 °C  
3 m as standard

**CAPILLARY LENGTHS: HOW TO SELECT:** 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: PN25  
25 bar at 100°C  
21 bar at 200°C  
19,8 bar at 250°C  
18,5 bar at 300 °C  
Min. working temperature: -10°C

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. In case of valve temperatures between 150 and 250°C a cooling unit type K1 has to be applied with connection downwards. An "Y" strainer should be provided upstream the valve. See IMI, installation and maintenance instructions.

SPECIFICATIONS				
Type	Conn. DN	Opening Ø (mm)	Kvs m3/h	Valve stroke
TR25-15/4	15	4	0,2	6
TR25-15/6	15	6	0,45	6
TR25-15/9	15	9	0,95	6
TR25-15/12	15	12	1,7	6
TR25-15	15	15	2,75	6
TR25-20/9	20	9	0,95	6,5
TR25-20/15	20	15	2,75	6,5
TR25-20/20	20	20	5	6,5
TR25-25/20	25	20	5	7
TR25-25/25	25	25	7,5	7

MAX PERMISSIBLE DIFF. PRESSURES		
With T.205 Thermostat		
Press. bar	valve Size	Seat Ø(mm)
21	15	4 and 6
13	15	9
9,3	15	12
5,3	15	15
5,3	20	15
2,9	20	20
2,9	25	20
1,3	25	25

MAX PERMISSIBLE DIFF. PRESSURES		
With T.405 Thermostat		
Press. bar	valve Size	Seat Ø(mm)
40	15	4 and 6
38	15	9
24	15	12
15	15	15
15	20	15
9	20	20
9	25	20
4,7	25	25

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 °C, and is calculated as follows:

Proportional band:  $\frac{\text{Valve stroke (mm)}}{\text{Thermostat mov (mm/°C)}}$

Thermostat movement in mm per °C:

T.205 and T.405 0,5 mm / °C

A proportional band in the range 8-12°C is suitable for most applications. A smaller proportional band is not ideal where heat load varies rapidly.

MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Body	CF8M / 1.4438
2	Bonnet	CF8 / 1.4308
3	* Gasket	St.St./Graphite
4	* Valve plug	AISI 316 / 1.4401
5	Seat	AISI 316 / 1.4401
6	* Spring	AISI 302 / 1.4300
7	Cap	AISI 304 / 1.4301
8	Washer	AISI 304 / 1.4301
9	Bolts	A-3

\*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

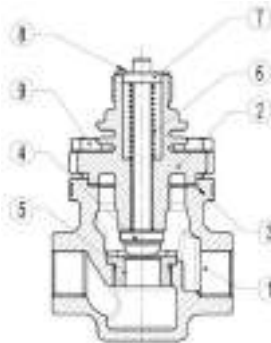
The installation site for the sensor pocket is arbitrary when paste is applied. When oil is used, the sensor pocket must point somewhat downwards.

MATERIAL

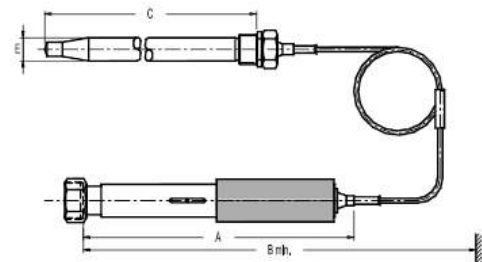
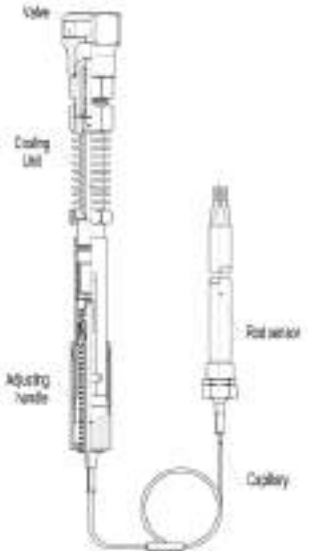
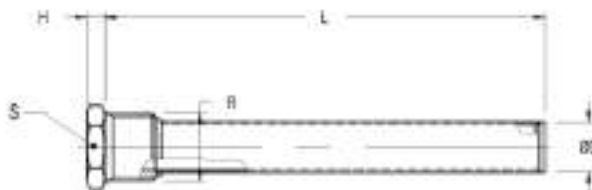
Stainless steel 1.4438

LIMITING CONDITIONS

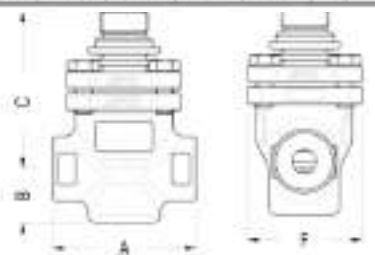
40 bar at 120°C  
24 bar at 350°C



POCKET DIMENSIONS (mm)					
TYPE	D	M	L	S	R
PK2	25	9	218	26	1"
PK4	25	10	390	45	1 1/4"



THERMOSTAT DIMENSIONS (mm)					
TYPE	A	B	C	ØF	Wgt Kg
T.205	305	405	210	22	1,8
T.405	365	525	390	22	2,6

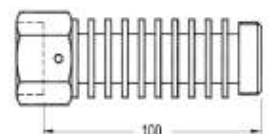


VALVE DIMENSIONS (mm)					
SIZE DN	A	B	C	F	WGT. Kgs
1/2"	100	40	112	90	2,8
3/4"	100	40	112	90	2,8
1"	100	40	112	90	2,9

COOLING UNITS K1

The cooling units are used in connection with control valves and thermostats to protect the stuffing box. At valve temperatures between 150°C and 250°C a cooling unit of type K1 connected downwards should be applied.

For higher temperatures as well as for all hot oil systems please consult.





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**TR40  
ADCATROL**

**TEMPERATURE REGULATORS  
SELF ACTING - NON BALANCED SIMPLE SEAT  
(valves & T series thermostats)**

**PN25**

Da Ø 1/2" a Ø1"  
Da DN15 a DN25

- USE**  
Saturated and superheated steam.  
Hot and superheated water.
- MODELS**  
TR40S - PN40 cast steel valve body.  
TR40SS - PN40 Stainless steel valve body.
- CONNECTIONS**  
Flanged EN 1092-1 PN16 - PN40

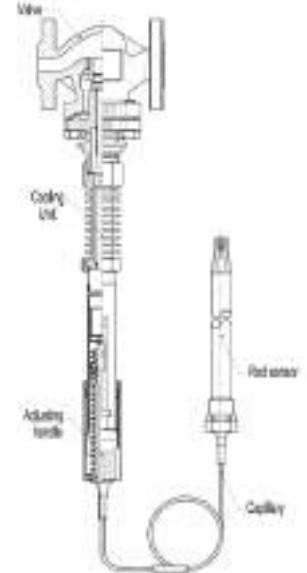
**CONTROL MODE:** Proportional  
**THERMOSTATS:** T.205 - 200N (max. closing force)  
T.405 - 400N (max. closing force)

**THERMOSTAT RANGES:** T.205 - 0-60 ; 30-90 and 60-120°C  
T.405 - 0-120; 40-160 °C  
3 m as standard

**CAPILLARY LENGTHS:** 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.

**HOW TO SELECT:** Cooling unit protects the stuffing box of the thermostat. Type K1 is recommended at valve temperatures between 150 and 250°C.

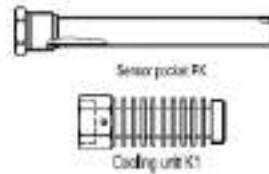
**COOLING UNITS:**



**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. In case of valve temperatures between 150 and 250°C a cooling unit type K1 has to be applied with connection downwards. An "Y" strainer should be provided upstream the valve. See IMI, installation and maintenance instructions.

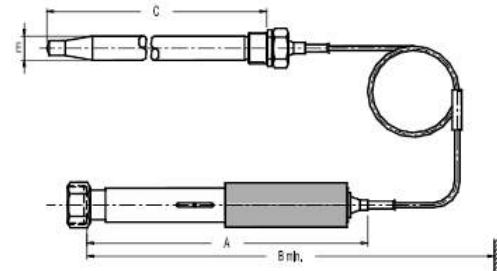
VALVE BODY LIMITING CONDITIONS TR40S - PN40		VALVE BODY LIMITING CONDITIONS TR40SS - PN40	
ALLOWABLE PRESSURES	RELATED TEMPERATURE	ALLOWABLE PRESSURES	RELATED TEMPERATURE
40 bar	-10 / 50° C	40 bar	-10 / 50° C
30,2 bar	200 °C	30,2 bar	200 °C
25,8 bar	300 °C	25,8 bar	300 °C
24 bar	350 °C	24 bar	350 °C
23,1 bar	400 °C	23,1 bar	400 °C



SPECIFICATIONS				
Type	Conn. DN	Opening Ø (mm)	Act. m3/h	Valve stroke
TR40-15/4	15	4	0,2	6
TR40-15/6	15	6	0,45	6
TR40-15/8	15	8	0,96	6
TR40-15/10	15	10	1,7	6
TR40-15	15	15	2,75	6
TR40-20/8	20	8	0,96	8,5
TR40-20/10	20	10	1,7	8,5
TR40-20/15	20	15	2,75	8,5
TR40-25/10	25	10	1,7	10
TR40-25/15	25	15	2,75	10

MAX. PERMISSIBLE DIFF. PRESSURES		
With T.205 Thermostat		
Press. bar	valve Size	Seat Ø(mm)
21	15	4 and 6
13	15	8
9,3	15	12
5,3	15	15
3,3	20	15
2,9	20	20
2,9	25	20
1,3	25	25

MAX. PERMISSIBLE DIFF. PRESSURES		
With T.405 Thermostat		
Press. bar	valve Size	Seat Ø(mm)
43	15	4 and 6
38	15	8
24	15	12
15	15	15
13	20	15
9	20	20
9	25	20
4,7	25	25



**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 °C, and is calculated as follows:

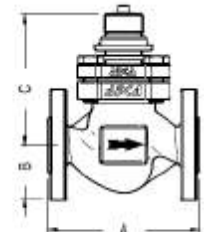
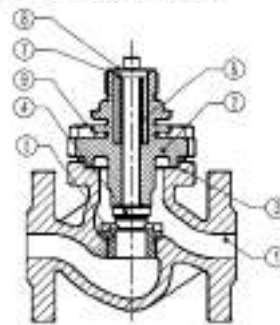
$$\text{Proportional band} = \frac{\text{Valve stroke (mm)}}{\text{Thermostat mov. (mm/°C)}}$$

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.

THERMOSTAT DIMENSIONS (mm)				
TYPE	A	B	C	Wgt Kg
T.205	330	405	210	2,8
T.405	380	520	290	2,8

MATERIALS			
POS.	DESIGNATION	MATERIAL TR40S	MATERIAL TR40SS
1	Valve Body	ASTM A216WCB / 1.0419 / CP240CH / 1.3619	CF8M / 1.4408
2	Bonnet	CF8 / 1.4308	CF8 / 1.4308
3	* Gasket	St.St./Graphite	St.St./Graphite
4	* Valve plug	AISI 316 / 1.4401	AISI 316 / 1.4401
5	Seat	AISI 316 / 1.4401	AISI 316 / 1.4401
6	* Spring	AISI 302 / 1.4308	AISI 302 / 1.4308
7	Gasket	AISI 316 / 1.4401	AISI 316 / 1.4401
8	Washer	AISI 304 / 1.4301	AISI 304 / 1.4301
9	Bolts	Steel 8.8	A-2



DIMENSIONS (mm)			
SIZE DN	A	B	WGT. Kgs
15	150	40	4,8
20	180	62	4,9
25	180	95	5,9

**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.

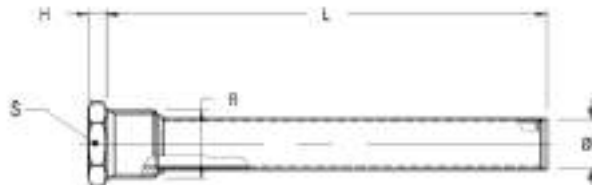
**INSTALLATION**

The installation site for the sensor pocket is arbitrary when paste is applied. When oil is used, the sensor pocket must point somewhat downwards.

**MATERIAL**  
Stainless steel 1.4438

**LIMITING CONDITIONS**  
40 bar at 120°C  
24 bar at 350°C

POCKET DIMENSIONS (mm)				
TYPE	D	H	L	R
PK2	25	9	218	35
PK4	28	10	268	45



**COOLING UNITS K1**

The cooling units are used in connection with control valves and thermostats to protect the stuffing box. At valve temperatures between 150°C and 250°C a cooling unit of type K1 connected downwards should be applied. For higher temperatures as well as for all hot oil systems please consult.

