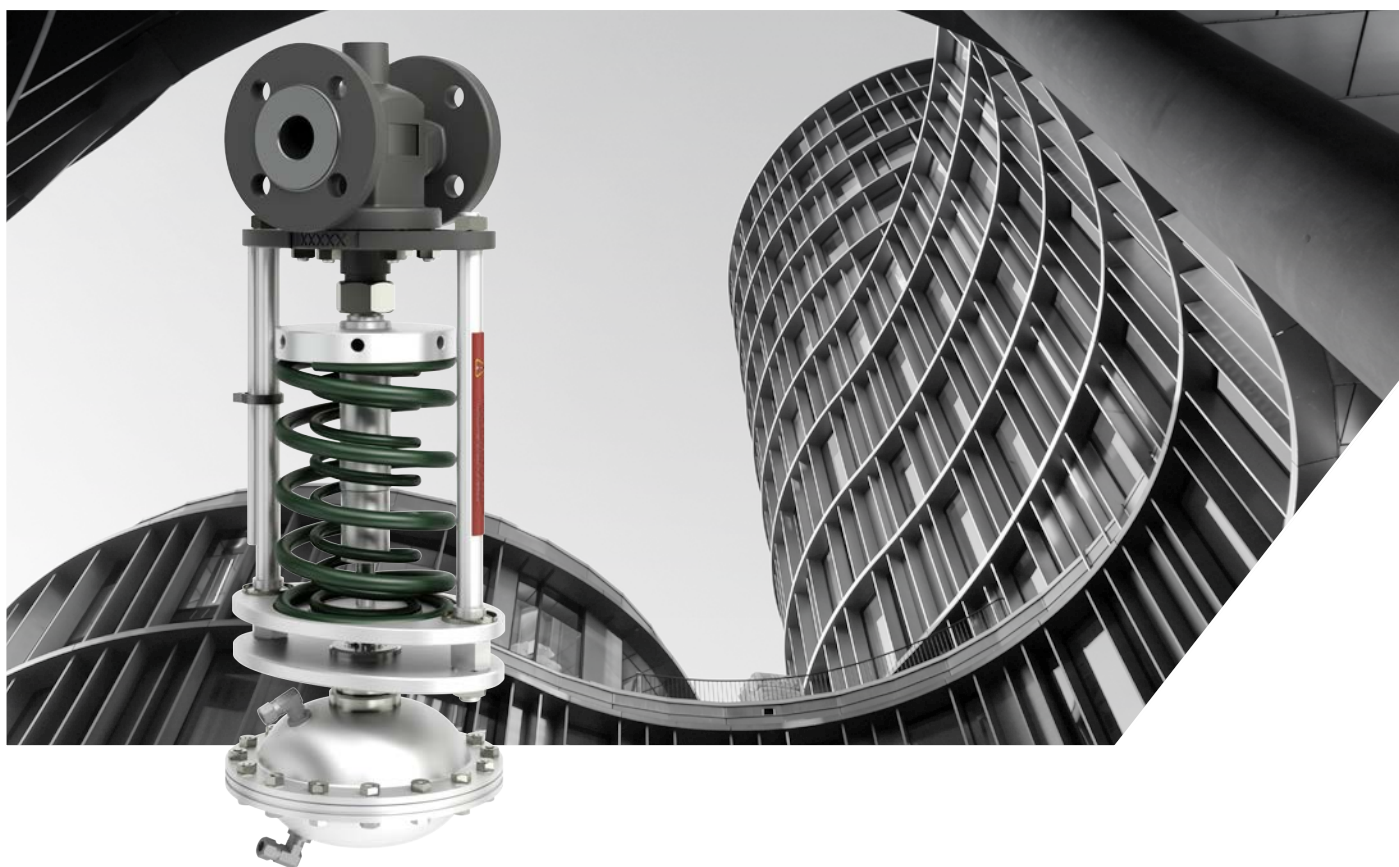


DIFFERENTIAL PRESSURE CONTROLS

TD56-2

UNRIVALED ACCURACY & STABILITY

TD56-2 is a high-performing and self-acting differential pressure controller which allows for fast installation and easy maintenance.



DIFFERENTIAL PRESSURE CONTROLS

PN 16/25

The purpose of the TD-controls is to reduce the high and fluctuating pump head in district heating systems and other large distribution networks to a suitable and, under all circumstances, a constant differential pressure.

FIG.1



FEATURES

- **Robust and compact design**
- **Easy to install and use**
- **Optimized for flow stability**
- **Self-acting**
- **Accurate and Stable**

DESIGN

The differential pressure controller is a self-acting unit consisting of:

- Valve, with pressure balanced cone
- 1, 2, or 3 springs
- Diaphragm housing
- Valve body materials
Nodular cast iron (PN25) or Cast iron (PN25)
- One capillary tube on each side of the actuator diaphragm housing

FUNCTION

The TD-controls are primarily for use in water systems where they maintain a constant differential pressure across 2 points and ensure stable flow conditions.

With the lower pressure connected to the valve side of the diaphragm and the higher pressure to the other side; the differential pressure across the diaphragm will be balanced by the force exerted by the spring.

Any change in the differential pressure will cause the diaphragm and the valve mechanism to move up or down to restore the set condition.

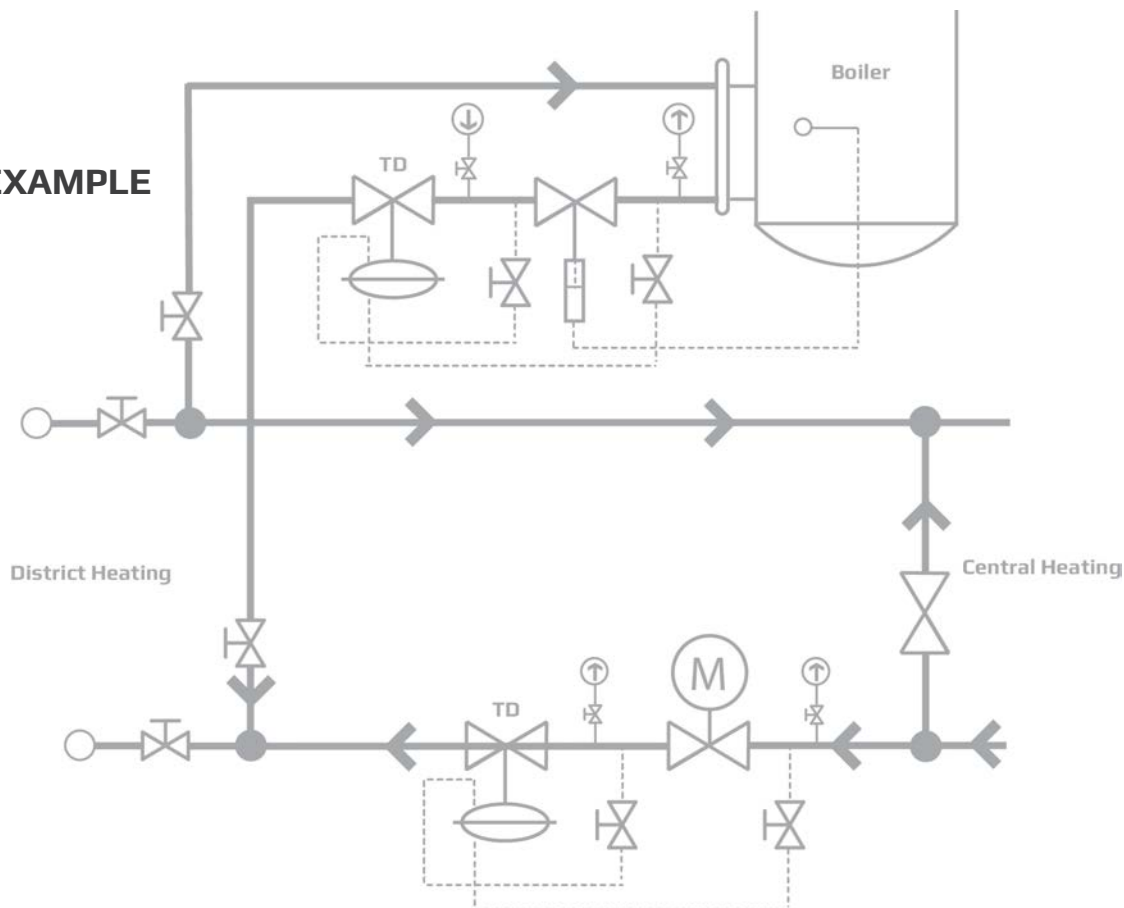
Adjustment of the differential pressure setting is made by rotating the setpoint adjuster (**FIG .1**) clockwise or anti-clockwise until the desired set point is reached.

SPECIFICATIONS

TYPE	FLANGE CONNECTION DN in mm	k _{VS} -value m ³ /h	LIFTING HEIGHT mm	WEIGHT kg
15 TD56-2	15	4	7,5	21
20 TD56-2	20	6,3	7,5	23
25 TD56-2	25	10	9	24
32 TD56-2	32	16	10	27
40 TD56-2	40	25	11	29
50 TD56-2	50	35	11,5	33
65 TD56-2	65	58	14,5	38
80 TD56-2	80	80	16	55

SET POINT RANGE bar	0,4 - 0,8	0,6 - 1,5	1 - 2,5	2-5
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INSTALLATIONS EXAMPLE



The medium flows through the free area between the seat and cone in the direction. The high pressure line is connected to the diaphragm housing via C1 and the low pressure line to the diaphragm housing via C2. Any change of differential pressure across the diaphragm which is connected to the

valve mechanism – above or below the set point will cause the diaphragm to change its position. If higher than set pressure the valve will move towards closed position, if lower than set pressure the valve will move towards open position, until the system is once again in balance.

PIONEERING TECHNOLOGY.

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CONTROLS