

V503

PRESSURE SUSTAINING CONTROL VALVES



Product Description

TVN V503 Pressure Sustaining Control Valves are designed to fix inlet pressure. When network pressure is over adjustment pressure, valve is opened and inlet pressure is fixed. It fixes the inlet pressure without being affected by surge pressure. Being installed at the end of the filter systems, it ensures productive back wash.



Technical Data

Size range	DN40 - DN300
Pressure range	0,7 - 16 bar (10 - 240 psi)
Temperature	-10°C to +80 °C
Flange drilling	Flanged EN 1092-2 / ISO 7005-2 Threaded ISO (BSP) - ANSI (NPT)
Coating	Polyester Epoxy
Testing	EN 12266-1
Marking	EN 19

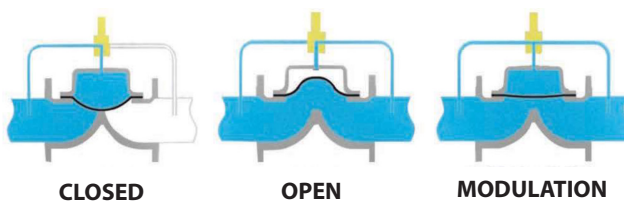
Application Range

- Agricultural irrigation
- Household implementation
- Supply of water fire extinguishing
- Various applications of industrial systems.
- Food and chemical enterprises

Adjustment

If the value on manometer is below demanded pressure after giving water into the system, inlet pressure is made to increase by rotating adjusting bolt clockwise. If the value on manometer is above demanded pressure, demanded pressure is adjusted by rotating adjusting bolt counterclockwise. After this process, by screwing the lock nut under adjusting bolt, adjusting bolt is fixed.

Working Principle



IRRIGATION



POTABLE WATER

V503

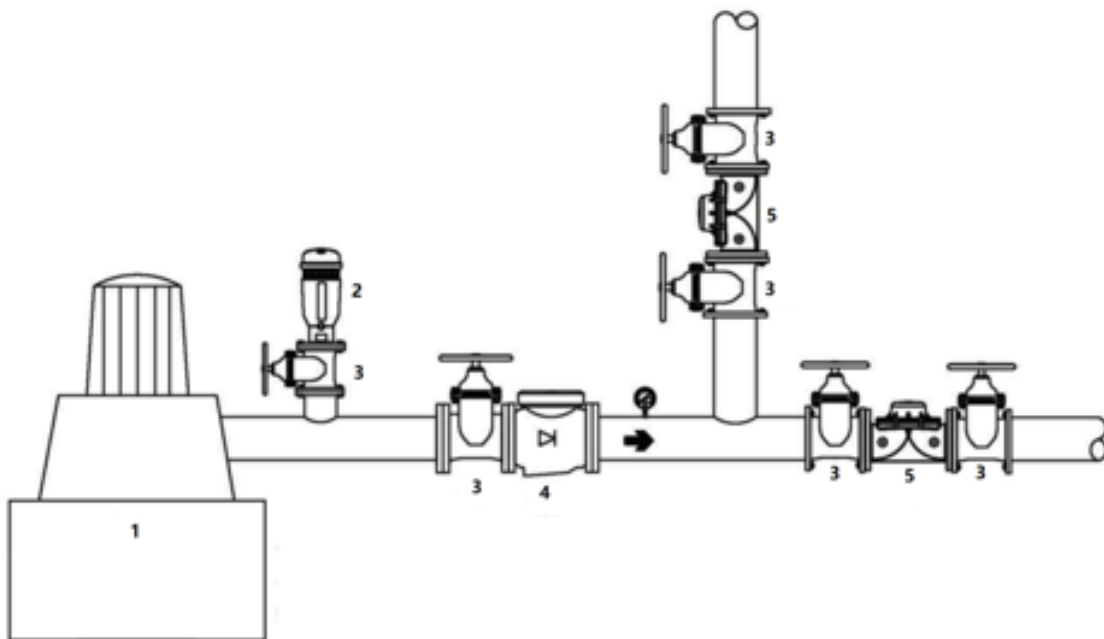
PRESSURE SUSTAINING CONTROL VALVES



Product Features

- No need for extra energy by running on pressure network.
- Classification according to the importance of pressure zones.
- Selective loading of the line in sloping systems.
- Manual switch on/off.
- Control in different voltages No need for extra energy by running on pressure network.
- Does not require maintenance in operation for a long time due to its corrosion resistant components.
- Has a long working life in operation since coating has been made with phosphorization and over-dried epoxy powder paint.
- Performs perfect modulation in variable flows and even too low flow rates close to zero.
- Has a wide range of application with use of different pilot valves

Application System



- 1- Pump
- 2- Air Release Valve
- 3- Isolation Valve
- 4- Check Valve
- 5- Pressure Sustaining Control Valve

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Material List



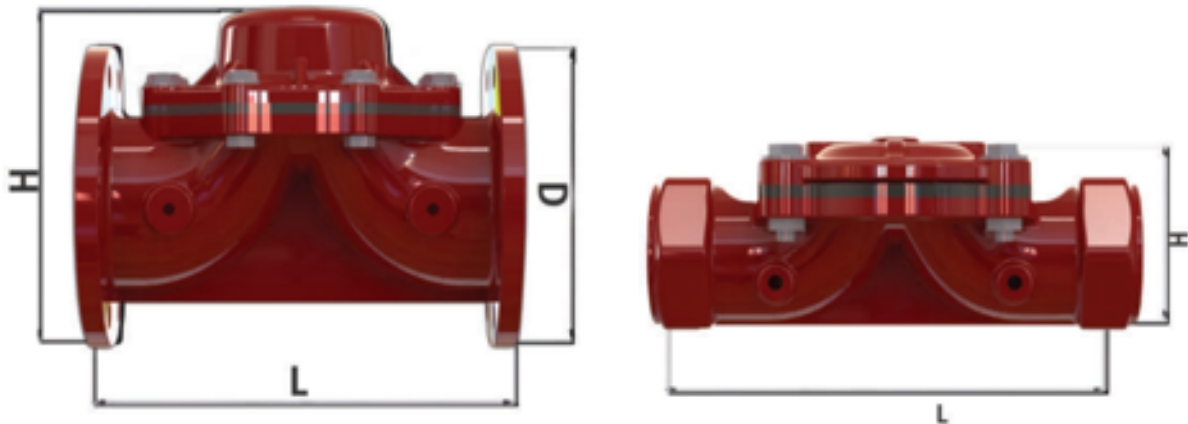
No	Part	Material
1	BODY	GGG40 Ductile Iron / GG25 Cast Iron
2	DIAPHRAM	Court Fabric / Reinforced Natural Rubber
3	COVER	GGG40 Ductile Iron / GG25 Cast Iron
4	WASHER	Plated Steel
5	BOLT	Plated Steel
6	NUT	Plated Steel / MS 58 Brass
7	SPRING THRUST RING	Polyamic
8	SPRING	AISI 304

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PRESSURE SUSTAINING CONTROL VALVES



Dimensions Table



FLANGED CONTROL VALVES									
DN		L		D		H		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
2"	50	8	204	6.4	165	6.4	165	33	15
2½"	65	8.1	206	7.2	185	7.2	185	36	16.5
3"	80	11.4	290	7.8	200	7.8	200	57	26
4"	100	11.6	296	8.6	220	8.6	220	61	28
5"	125	12.3	314	9.8	250	9.8	250	72	33
6"	150	16.2	413	11.2	285	12.6	321	125	57
8"	200	18.5	470	13.3	340	18.8	403	187	85
10"	250	18.5	470	16	407	17	433	226	103
12"	300	20.8	530	18.3	466	19.5	497	316	145
THREADED CONTROL VALVES									
DN		L		H		Weight			
inch	mm	inch	mm	inch	mm	lbs	kg		
2"	50	8.1	206	4.2	107	28.6	13		
2½"	65	9	230	4.3	110	30.8	14		
3"	80	13.7	350	5.7	145	44	20		