



PUMP (BOOSTER) CONTROL VALVE

TAYFUR WATER SYSTEMS

TYPHOON®

We **Care** About
Every Drop of
Water



Tayfur Water Systems, which was established by Tayfun Yazaroğlu in 2004 in Izmir. We continue our activities as "Tayfur Water Systems Machinery Engineering Industry and Trade Inc." since 2017.

Our company offers its products and experiences to the local market and international market. Tayfur Water Systems, while strengthening its recognition abroad, continues to expand its production, sales and marketing activities every day.

Our engineers and technical staff, technological infrastructure, manufacturing, sales, project-consulting, contracting and service planning meets the requirements of the sector.

Our company manufactures "TYPHOON" brand, hydraulic control valves, plastic hydraulic control valves, backwash valves, plastic backwash valves, impact-free dynamic suction cups, plastic suction cups, bottom clamps, filter reverse flushing control devices. It is progressing towards becoming a strong brand in both domestic and foreign markets by meeting the special demands of its domestic and foreign customers.

STORY OF US

Our Quality Policy

In order to be a leader in quality in the sales, marketing and service sector by complying with legal conditions and to comply with the requirements of Quality Management System in order to meet the needs and expectations of our customers, to continuously improve the efficiency and to not compromise the quality under any circumstances.

Our Mission

To be a company aiming to present its synergy in the national and international market which has always taken its responsibilities, desires and expectations of our customers in a correct, reliable and timely manner, within the framework of high quality standards, transforming efficiency and competition into an advantage...

Our Vision

To be a leading, innovative, powerful and reputable enterprise in its sector.



PUMP (Booster) CONTROL VALVE

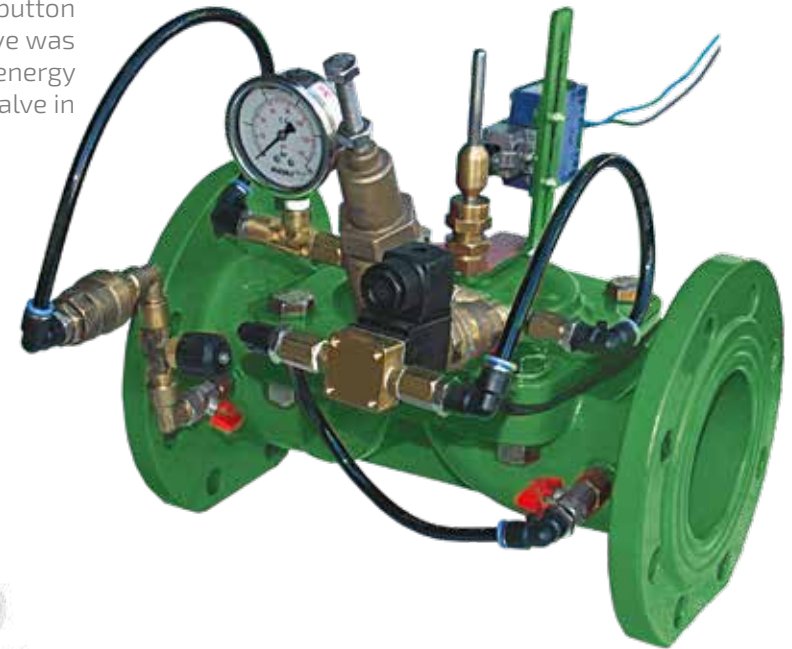
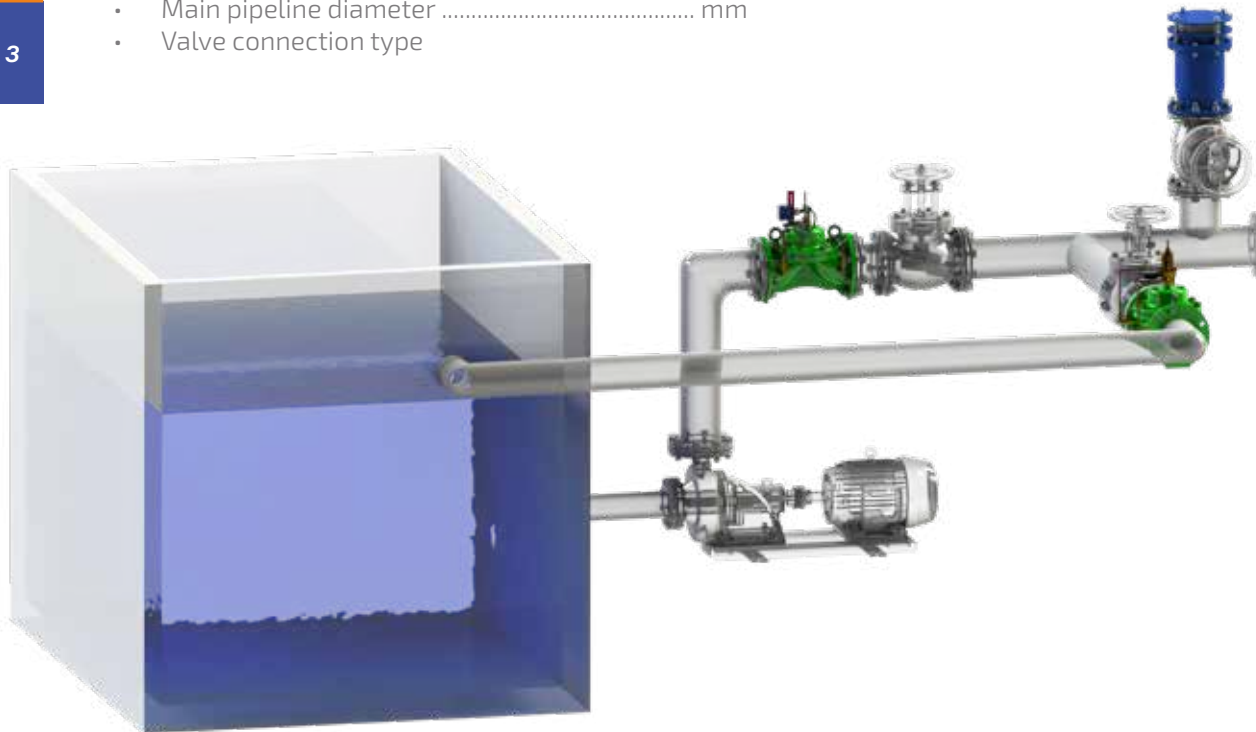
Agricultural

Pump Control Valve is a control valve designed for putting booster type pumps into/out of service automatically which is used water network elevating lines. When start button is pressed, pump control valve is opened by itself slowly in comparison with booster pump until pump rotation will reach working rotation. When "stop" button is pressed, control valve is closed slowly without causing surge in the first plan. When pump control valve was closed as fully sealed, it is disengaged from system by means of "Limit Switch" on it. In situations like energy interruption, works as a check valve to prevent back-flow to pump and eliminates use of an extra check valve in the system.

Order Information

Please provide the following information in order

- Maximum flow rate m³/h
- Maximum mains / operating pressure bar
- Main pipeline diameter mm
- Valve connection type





HYDRAULIC CONTROL VALVES

Agricultural

Typhoon hydraulic control valves are automatic valves with direct diaphragm shut-off working with line pressure. It is a comfortable, smooth flow in the minimum pressure loss of the body and diaphragm, which is kept in the foreground in its design.

In hydraulic control valves, worn parts such as shafts, bearings and bushings are longevity. The single moving part of valves is the diaphragm.

TYPHOON hydraulic control valves, in-line drinking water pump, agricultural irrigation, fire systems, filtration, industrial, etc. designed for use in areas.

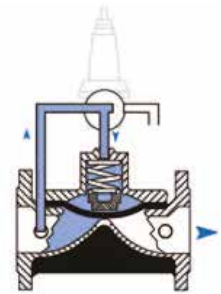
- M** Manually Controlled Valve
- PR** Pressure Reducing Control Valve
- PRPS** Pressure Reducing + Pressure Sustaining Control Valve
- PS** Pressure Sustaining Control Valve
- PREL** Pressure Reducing + Solenoid Controlled Valve
- EL** Solenoid Controlled Valve
- QR** Quick Relief Control Valve

- FL** Float Level Control Valve
- FLEL** Electric Float Level Control Valve
- DIFL** Differential Float Level Control Valve
- PC** Pump (Booster) Control Valve
- DPC** Deep Well (Submersible) Pump Control Valve
- SA** Surge Anticipating Control Valve
- HD** Hydraulic Check Valve



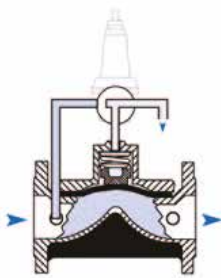
Working Principles

They are automatic control valves which are used hydraulically to perform the desired operations with line pressure without the need of energy sources in the mains line.



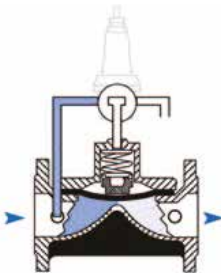
Valve Closing Mode

When the pilot discharge position on the main control valve in the closed position is reached, the pressurized water on the diaphragm of the main control valve is drained. When the line pressure reaches the position of spring force, hydraulic force is applied to the diaphragm of the control valve under water, so that the valve is in full open position.



Valve Opening Mode

When the pilots on the main control valve reach the water pressure diaphragm, the water creates a hydraulic force. The resulting hydraulic force combines the diaphragm with the force applied by the spring to create a complete seal and close.



Modulation Mode

These are the pilot valves which are connected to the control valve which allows the main valve to operate in this position. According to the amount of flow and pressure to be adjusted, the water pressure on the diaphragm is controlled constantly, allowing it to operate in a modulated position.

Models

Flanged		Connection		Material		Body		Transmition Pressure			
		Flanged		GGG40		Globe		PN10 - PN16 - PN25			
		Available Diameters									
		mm	50	65	80	100	125	150	200	250	300
		inch	2	2 ^{1/2}	3	4	5	6	8	10	12

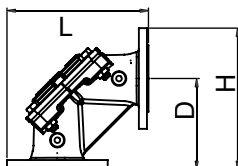
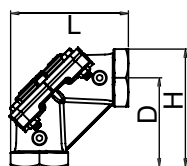
Threaded		Connection		Material		Body		Transmition Pressure		
		Threaded		GGG40		Globe		PN10 - PN16 - PN25		
		Available Diameters								
		mm	20	25	32	40	50	65	80	
		inch	3/4	1	1 ^{1/4}	1 ^{1/2}	2	2 ^{1/2}	3	

Victaulic		Connection		Material		Body		Transmission Pressure	
		Victaulic		GGG40		Globe		PN10 - PN16 - PN25	
		Available Diameters							
		mm	50	65	80	100	150	200	
		inch	2	2 1/2	3	4	6	8	

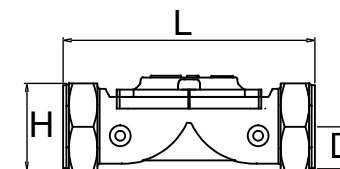
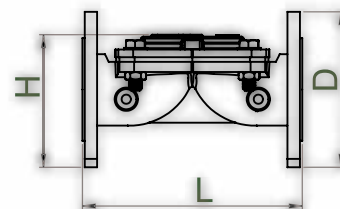
Angled		Connection		Material		Body		Transmition Pressure	
		Flanged / Threaded		GGG40		Globe		PN10 - PN16 - PN25	
		Available Diameters							
		mm	50	80	100	150			
		inch	2	3	4	6			

Sizes and Weights

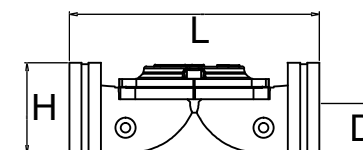
Flanged	DN		D		L		H		Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
	2	50	6,50	165	8,66	220	5,87	149	17,60	8,00
	2 ^{1/2}	65	7,28	185	8,66	220	6,06	154	21,60	9,80
	3	80	7,87	200	11,26	286	6,81	173	38,80	17,46
	4	100	8,66	220	12,99	330	6,81	173	46,47	29,08
	5	125	9,84	250	14,49	368	8,35	212	62,30	28,25
	6	150	11,22	285	15,51	394	12,80	325	114,40	51,90
	8	200	13,38	340	18,19	462	14,96	380	200,80	91,10
	10	250	15,94	405	21,46	545	19,09	458	332,90	151,00
	12	300	18,11	460	22,19	582	19,69	500	392,90	178,20



Angled	DN		D		L		H		Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
Threaded	2	50	4,4	112	6,05	154	6,05	154	9,47	4,3
	3	80	7,1	180	9,45	240	9,45	240	29,30	13,3
Flanged	2	50	4,40	112	7,44	189	7,44	189	19,07	8,65
	3	80	7,10	180	10,95	278	10,95	278	39,02	17,7
	4	100	7,48	190	12,00	305	12	305	60,19	27,3
	6	150	9,05	230	14,92	379	14,92	379	106,26	48,2



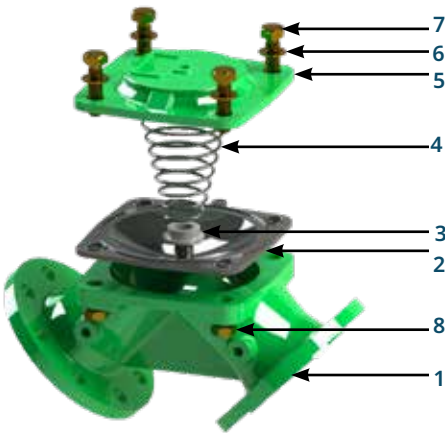
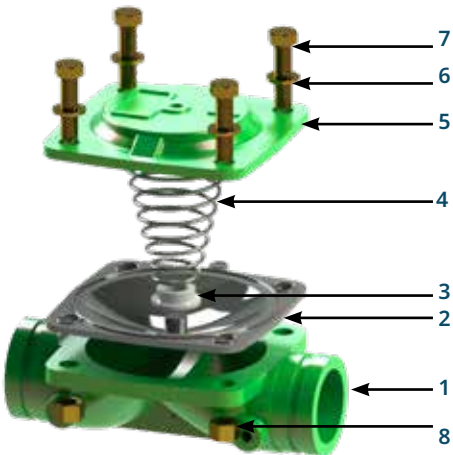
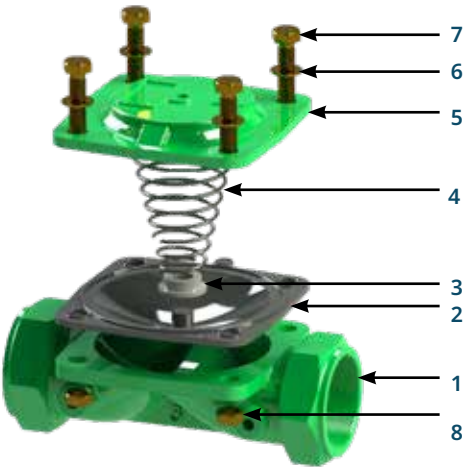
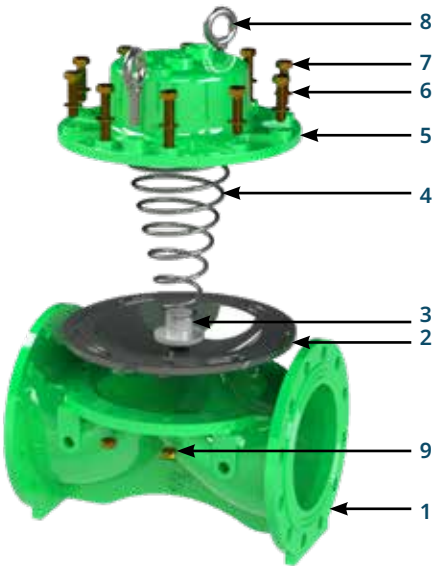
Threaded	DN		D		L		H		Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
	3/4	20	0,90	23,0	5,2	132	2,0	50,0	2,2	1,00
	1	25	0,90	23,0	5,2	132	2,0	50,0	2,2	1,00
	1 ^{1/4}	32	1,35	34,0	6,8	173	3,6	92,3	6,3	2,85
	1 ^{1/2}	40	1,35	34,0	6,8	173	3,6	92,3	5,8	2,65
	2	50	1,65	41,5	7,3	186	4,4	112,0	9,0	4,10
	2 ^{1/2}	65	1,80	46,0	8,9	226	4,6	118,0	11,7	5,30
	3	80	2,05	52,5	12,5	318	5,0	127,0	26,4	12,00



Victaulic	DN		D		L		H		Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
	2	50	1,18	30	7,24	190	3,11	79,0	8,60	3,9
	2 ^{1/2}	65	1,46	37	8,90	218	3,74	95,0	9,92	4,5
	3	80	1,77	45	11,42	290	3,70	94,0	13,00	5,9
	4	100	2,26	57,5	12,48	317	4,19	106,5	13,6	6,2
	6	150	3,30	84	17,87	392	5,24	133,0	66,00	30
	8	200	4,53	115	21,40	544	13,10	332,0	143,30	65

Flanged

Nr.	Material Name	Type Of Material
1	Body	GGG40
2	Diaphragm	Natural Rubber
3	Spring Seat	Polyamide
4	Spring	SST 302
5	Cover	GGG40
6	Washer	8.8 Coated Steel
7	Bolt	8.8 Coated Steel
8	Lifting Eyebolts	8.8 Coated Steel
9	Nut	8.8 Coated Steel



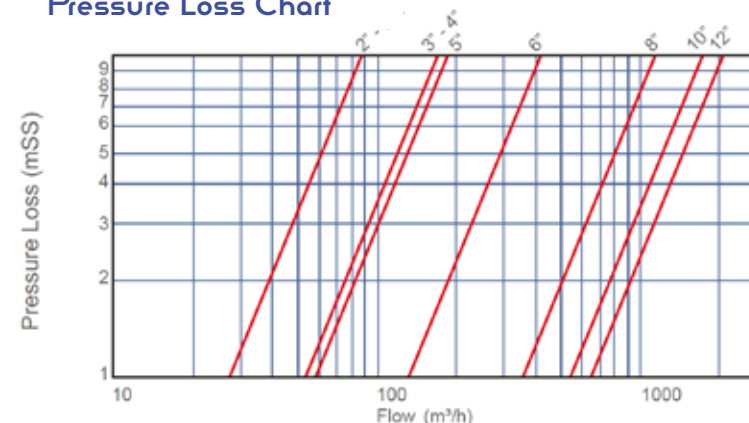
Threaded - Victaulic - Angled

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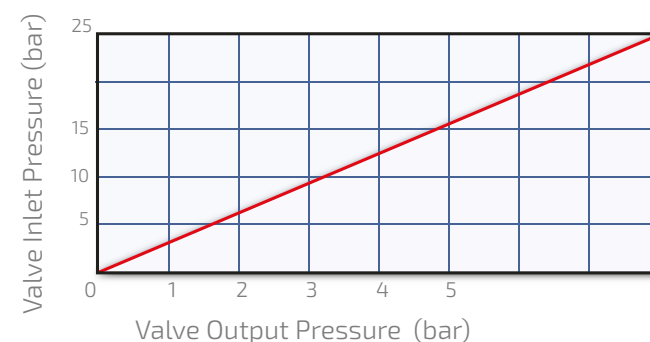
Technical Specifications

Operating Pressure	Standard	0,7 - 16 bar (10 - 240 psi)
	Low Pressure Range	0,5 - 10 bar (7,5 - 160 psi)
	High Pressure Range	0,7 - 25 bar (10 - 360 psi)
Temperature	Minimum Operating Temp.	- 10 °C (14 °F) DIN 2401/2
	Maximum Operating Temp.	80 °C (176 °F) DIN 2401/2
Connection	Flanged	DIN 2501, ISO 7005 - 2
	Threaded	ISO (BSP) , ANSI (NPT)
Covering	Standard	Epoxy
	Optional	Polyester
Hydraulic Connections	Standard	Reinforced Nylon (Air Brake) Hydraulic Tube SAE J 844
	Optional	Copper DIN1057
Actuator Type	With Single Control Chamber	Aperture With Diaphragm

Pressure Loss Chart



Cavitation Chart



Hydraulic Performance

	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
Valve Diameter	2	50	2 1/2	65	3	80	4	100	5	125	6	150	8	200	10	250	12	300
Kv m3/h @ 1bar	88		88		174		187		187		419		1139		1698		2276	
Cv gmp @ 1psi	102		102		201		216		216		484		1316		1961		2629	

$$Kv(Cv) = Q \cdot \sqrt{G/\Delta P}$$

Kv : Valve flow coefficient (flow rate at 1 bar pressure loss m³/h @ 1 bar)

Cv : Valve flow coefficient (flow in pressure loss of 1 psi GPM @ 1 psi)

Q : Flow (m³/h, gpm)

Cv = 1,155Kv

ΔP : Pressure Loss (bar, psi)

G : The specific gravity of water(Water=1.0)



CERTIFICATE

CERTIFICATE OF CONFORMITY

Manufacturer / Üretici
TAYFUR SU SİSTEMLERİ MAKİNE MÜHENDİSLİK SANAYİ VE TİCARET ANONİM ŞİRKETİ
Address / Adres
KARACAĞÖĞÜL MAHALLESİ 6172 SOKAK NO:19 A BORNOVA / İZMİR / TÜRKİYE

Product Description / Ürün Tanımı
HYDRAULIC CONTROL VALVES / HİDROLİK KONTROL VALMALARİ

Product Types / Ürün Tipleri
TIPOON SERİSİ

MANUAL HYDRAULIC CONTROL VALVE / PRESSURE REDUCING CONTROL VALVE
PRESSURE REDUCING AND PRESSURE SUSTAINING CONTROL VALVE
PRESSURE SUSTAINING CONTROL VALVE / PRESSURE REDUCING AND SOLENOID CONTROL VALVE
SOLENOID CONTROL VALVE / QUICK RELIEF CONTROL VALVE / FLUID LEVEL CONTROL VALVE
ELECTRIC FLUID LEVEL CONTROL VALVE / DIFFERENTIAL FLUID LEVEL CONTROL VALVE
PUMP CONTROL VALVE / DEEP WELL PUMP CONTROL VALVE / SURGE ANTICIPATING VALVE
HYDRAULIC CHECK VALVE / Y TİPİ HYDRAULIC CONTROL VALVE
CHECK PRESSURE RELIEF CONTROL VALVE

BACKFLOW PREVENTER VALVES; VICTAULIC 3x2 VICTAULIC 4x3-FLANGE 3x2- FLANGE 4x3- VICTAULIC 1/8 threaded 2x2

Product Features / Ürün Özellikleri
 Basınçlar / Pressures: PN10-PN16 -PN25
 Max.Çalışma sıcaklığı / Max.Operating Temperature: 60°C-80°C
 Çaplar / Diameters : DN20[3/4"] den DN300[12"] e kadar
 Üretim Standartları / Production Standards : TS EN 558-1 Esas Seriler 48 FTF-CTF
 Vana Boyu / Valve Length : TS ISO 7005-2 , TS EN 558-1
 Flang Ölçüleri / Flange Dimensions : TS ISO 5208 - ISO 7005/2 - EN 1092/2 - BS 40504 - BS 10E- ANSI
 Sızdırmazlık Testi Basıncı / Pressure Tests : Body Test Pressure : 1,5 x PN
 Sızdırmazlık Test Basıncı / Sealing Test Pressure : 1,1 x PN
 Genel Tasarımlar / General Designs : TSEN 1074-1-2-5

Product Brand / Ürünün Markası

TYPHOON

Directives and Regulations / Direktif ve Yönetmelikler
2014/68/EU Pressure Equipment Directive / 2014/68/EU Basınçlı Ekipmanlar Direktifi

It has been accepted by the company that the applicable requirements of the 2014/68 / EU Pressure Equipment Directive have been fulfilled and its responsibility has been taken for the products defined above. The products defined above have been checked by internal production controls carried out by the organization. If there is a change in the product, this declaration will not be accepted and will lose its validity.

Yukarıda tanımları verilmiş olan ürünlerin için 2014/68/EU Basınçlı Ekipmanlar Yönetmeliğinin uygulanabilen gerekliliklerinin yerine getirdiği ve sorumluluğunun alınmış olduğu firma tarafından kabul edilmiştir. Yukarıda tanımları verilmiş olan ürünler, iç üretim kontrollerinin kuruluş tarafından yapıldığı kontrol edilmiştir. Üründe bir değişiklik olduğu takdirde bu beyan kabul edilmeyecek ve geçerliliğini yitirecektir.

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Certificate Date : 16.02.2024
Validity Date : 16.02.2025

International Documenting System Doo.
Budva / Montenegro

Authorised by
Vladimir Vučić SEKULIC



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CERTIFICATE

CERTIFICATE OF CONFORMITY

Manufacturer / Üretici
TAYFUR SU SİSTEMLERİ MAKİNE MÜHENDİSLİK SANAYİ VE TİCARET ANONİM ŞİRKETİ

Address / Adres
KARACAĞÖĞLAN MAHALLESİ 6172 SOKAK NO:19 A BORNOVA / İZMİR / TÜRKİYE

Product Description / Ürün Tanımı
FILTER BACKWASH CONTROL DEVICES / FİLTRE TERS YIKAMA KONTROL CİHAZLARI

Product Types / Ürün Tipleri

AC Tipi – 1-2-3 Dahili DP
DC Tipi – 1-2-3 Dahili DP
AC Tipi – 2-4-6 DP Hariç
DC Tipi – 2-4-6 DP Hariç
AC Tipi – 2/10 DP Hariç
DC Tipi – 2/10 DP Hariç (2 Kablolu)
Basınç Fark Cihazı (DP)

Product Brand / Ürünün Markası

FLUSHCON

1. $\frac{1}{2}$ 2. $\frac{1}{3}$ 3. $\frac{1}{4}$ 4. $\frac{1}{5}$ 5. $\frac{1}{6}$ 6. $\frac{1}{7}$ 7. $\frac{1}{8}$ 8. $\frac{1}{9}$ 9. $\frac{1}{10}$ 10. $\frac{1}{11}$

2006/42/EC Machinery Safety Directive / 2006/42/AT Makine Emniyet Direktifi
2014/35/EC Low Voltage Directive / 2014/35/AT Alçak Gerilim Yönetmeliği

Harmonized Standards / Harmonize Standartlar
EN ISO 120100:2010, EN 60204-1:2018

It has been accepted by the company that the applicable requirements of the 2006/42/EC Machinery Safety Directive have been fulfilled and its responsibility has been taken for the products defined above. The products defined above have been checked by internal production controls carried out by the organization. If there is a change in the product, this declaration will not be accepted and will lose its validity.

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TYPHOON

Her Fabrika Bir Kaledir*

K. Atatürk

*Every factory is a fortress

