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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.

## 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

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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.

# **HYDRAULIC CONTROL VALVES**

Typhoon hydraulic control valves are automatic valves. In hydraulic control valves, worn parts such as with direct diaphragm shut-off working with line shafts, bearings and bushings are longevity. The pressure. It is a comfortable, smooth flow in the single moving part of valves is the diaphragm. minimum pressure loss of the body and diaphragm, TYPHOON hydraulic control valves, in-line drinking which is kept in the foreground in its design.

water pump, agricultural irrigation, fire systems, filtration, industrial, etc. designed for use in areas.

**Agricultural** 

Manually Controlled Valve

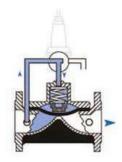
- **PR** Pressure Reducing Control Valve
- **PRPS** Pressure Reducing + Pressure Sustaining Control Valve
- **PS** Pressure Sustaining Control Valve
- **PREL** Pressure Reducing + Solenoid Controlled Valve
- EL Solenoid Controlled Valve
- **QR** Ouick Relief Control Valve
- FL Float Level Control Valve FLEL Electric Float Level Control Valve
- **DIFL** Differential Float Level Control Valve
- PCPump (Booster) Control Valve
- **DPC**Deep Well (Submersible) Pump Control Valve
- SA Surge Anticipating Control Valve
- HD Hydraulic Check Valve

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# **HYDRAULIC CONTROL VALVES**

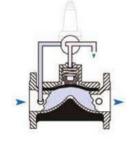
#### Working Principles

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.

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# HYDRAULIC CONTROL VALVES

## Models

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		Conne Flar	ection Iged		Material Body GGG40 Globe		Transmition Pressure PN10 - PN16 - PN25				
Flanged					<i>F</i>	vailable	Diameter	S			
Fla		mm	50	65	80	100	125	150	200	250	300
	V	inch	2	21/2	3	4	5	6	8	10	12

		ection		erial		ody			on Pressure
ded	Ihre	aded	GG	G40	Glo Available	obe <mark>Diamete</mark> i		PN10 - PN	116 - PN25
hreaded	12122	20	25	32	40	50	65	80	
	mm inch	3/4	1	11	11	2	21/2	3	
	men	- 1		/4	/2		1	-	

	9	Conne	ection	Mat	erial	Bc	ody	т	ransmition Pressure
Victaulic		Victa	aulic	GG	G40	Glo Available	obe <del>Diameter</del>		PN10 - PN16 - PN25
Vict	é	mm	50	65	80	100	150	200	
		inch	2	21/2	3	4	6	8	

		Conne	ection	Mat	erial	Bc	ody	Transmition Pressure
	6137 S	Flang	ged /	GG	G40	Glo	obe	PN10 - PN16 - PN25
D 0		Three	aded		A	vailable	Diameters	
Angled								
ar		mm	50	80	100	150		
	<b>19</b>	inch	2	3	4	6		

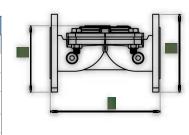
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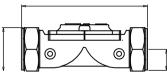
## Agricultural

# HYDRAULIC CONTROL VALVES

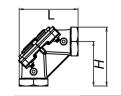
## Sizes and Weights

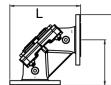
	D	N	C	)	L		F	ł	Wei	ight
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
	2	50	6,50	165	8,66	220	5,87	149	17,60	8,00
	21/2	65	7,28	185	8,66	220	6,06	154	21,60	9,80
g	3	80	7,87	200	11,26	286	6,81	173	38,80	17,46
Flanged	4	100	8,66	220	12,99	330	6,81	173	46,47	29,08
Fla	5	125	9,84	250	14,49	368	8,35	212	62,30	28,25
	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





	DI	N	C	)	l	_	H	ł	Wei	ight
	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
ed	1	25	0,90	23,0	5,2	132	2,0	50,0	2,2	1,00
Threaded	11/4	32	1,35	34,0	6,8	173	3,6	92,3	6,3	2,85
Γhre	11/2	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
	21/2	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





Anglad	D	N		)	l		ŀ	4	Wei	ght
Angled	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
	2	50	4,4	112	6,05	15	6,05	15	9,47	4,3
	3	80	7,1	180	9,45	4	9,45	4	29,30	13,3
						24		24	II	
)						0		0		
	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

4					1
T	┝┲╧			-11	]
	0	$\nearrow$	्		

	DI	٧	C	)	L	_	ŀ	ł	Wei	ght
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
~	2	50	1,18	30	7,24	184	3,11	79,0	8,60	3,9
ulic	21/2	65	1,46	37	8,90	226	3,74	95,0	9,92	4,5
Victaulic	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	454	5,24	133,0	66,00	30
	8	200	4,53	115	21,40	544	13,10	332,0	143,30	65

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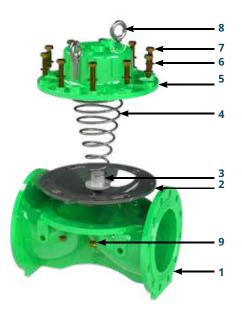
# HYDRAULIC CONTROL VALVES

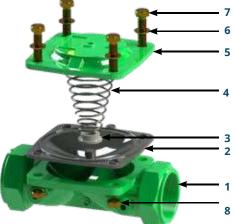
## Agricultural

#### Main Parts

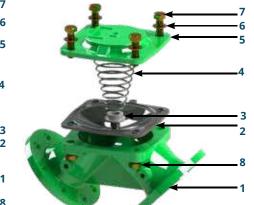
## Flanged

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









## Threaded - Victaulic - Angled

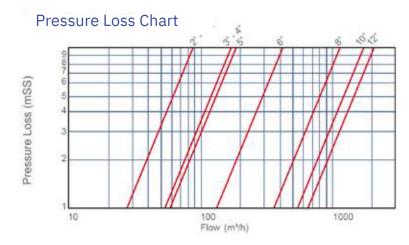
Nr.	Material Name	Type Of Material
1	Body	GGG40 Natural
2	Diaphragm	Rubber
3	Spring Seat	Polyamide
4	Spring	SST 302 GGG40
5	Cover	8.8 Coated Steel
6	Washer	8.8 Coated Steel
7	Bolt Nut	8.8 Coated Steel
8		

# ЧооНал

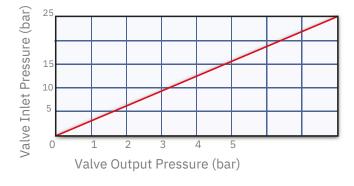
# **HYDRAULIC CONTROL VALVES**

## **Technical Specifications**

	Standard	0,7 - 16 bar (10 - 240 psi)
Operating Pressure	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
remperature	Maximum Operating Temp.	80 °C (176 °F) DIN 2401/2
Connection	Flanged	DIN 2501, ISO 7005 - 2
Connection	Threaded	ISO (BSP) , ANSI (NPT)
O a visit a d	Standard	Ероху
Covering	Optional	Polyester
Hydraulic	Standard	Reinforced Nylon (Air Brake)
Connections		Hydraulic Tube SAE J 844
	Optional	Copper DIN1057
Actuator Type	With Single Control Chamber	



#### **Cavitation Chart**



#### Hydraulic Performance

	inch	mm in	ch mm	inchı	nm ind	ch mm	inchı	nm inc	ch mm	inch r	nm in	ch mm	inch	mm				
Valve Diameter	2	50	21/2	65	3	80	4	100	5	125	6	150	8	200	10	250	12	300
Kv m3/h @ 1bar	8	8	8	8	17	74	1	8	1	8	4	1	11	13	16	98	22	276
Cv gmp @ 1psi	1	02	10	)2	20	01	7		7		9		9		19	961	26	29
							2	1	2	1	4	8	13	31				
					Kv	(Cv	) =6	q√ (	G/ <b>R</b>		4		6					

Kv: Valve flow coefficient (flow rate at 1 bar pressure loss m<sup>3</sup>/h @ 1 bar)
Cv: Valve flow coefficient (flow in pressure loss of 1 psi GPM @ 1 psi)
Q: Flow (m<sup>3</sup>/h, gpm)

**Cv** = 1,155Kv

**ΔP**: Pressure Loss (bar, psi) **G**: The specific gravity of water(Water=1.0)



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# MANUALLY CONTROLLED VALVES

# Agricultural



Manually Controlled Valves are hydraulic control valves which are operated by line pressure and provide 3-way mini valves for on-off operation. The valve has a minimum opening pressure of 0.7 bar. Thanks to its flexible diaphragm, it performs an easy and quick check operation in high pressure applications and is shut off without impact.

#### Order Information

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## **Agricultural**

Pressure Reducing Control Valves are hydraulic control valves that reduce the input pressure value to the desired pressure value by means of a pressure reducer pilot mounted on it. The pressure reducer control valve constantly controls the output pressure value to be set without being influenced by the flow rate and inlet pressure values. When there is no flow in the system, the valve closes itself. When the valve inlet pressure value in the system falls below the set outlet pressure value, the valve opens itself. The valve can be used in horizontal or vertical position on the system.

#### **Order Information**

Please provide the following information in order

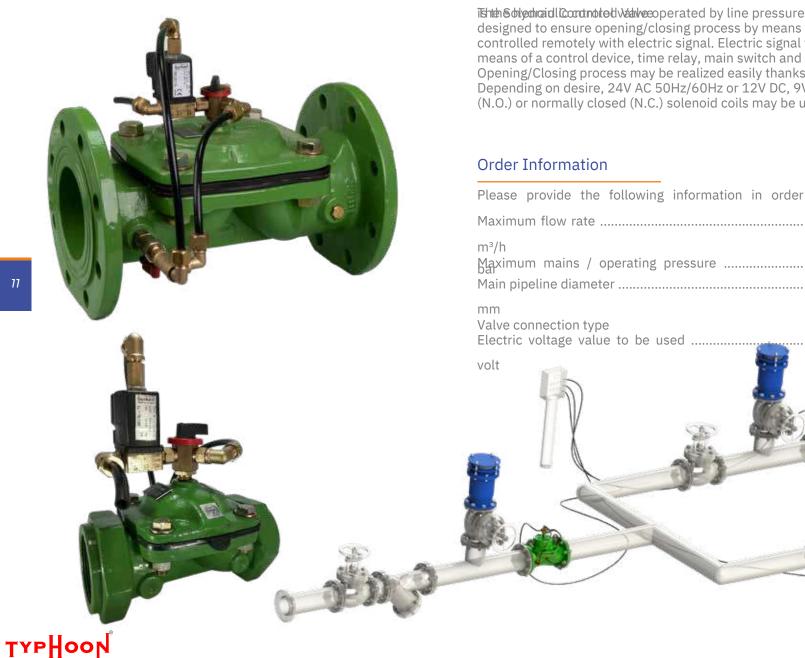
Maximum flow rate m³/h	
Maximum mains / operating pressure bar	
Main pipeline diameter mm	
Valve connection type	
Maximum valve inlet pressure bar	
Minimum valve inlet pressure bar	
Desired outlet pressure value bar	

# **PRESSURE REDUCING CONTROL VALVE**



# SOLENOID **CONTROLLED VALVES**

## **Agricultural**



ishten Solved maid licoard noted weather operated by line pressure and designed to ensure opening/closing process by means of built-in 3/2-way solenoid pilot valves

controlled remotely with electric signal. Electric signal for solenoid pilot valves is ensured by means of a control device, time relay, main switch and PLC control units etc. Opening/Closing process may be realized easily thanks to manual control on solenoid pilot valve. Depending on desire, 24V AC 50Hz/60Hz or 12V DC, 9V DC LATCH and 12V DC latch normally open (N.O.) or normally closed (N.C.) solenoid coils may be used on main valve.

Maximum flow rate ..... Maximum mains / operating pressure ..... Main pipeline diameter ..... Electric voltage value to be used .....

# PRESSURE REDUCING & SUSTAINING CONTROL VALVE

## Agricultural

The Pressure Reducing and Sustaining Control Valve is the control valve that reduces the output pressure to the desired value by holding the input pressure. There are two pilots on the valve. The pilot in the inlet direction is the pressure stabilization pilot and fixes the inlet pressure. The other pilot ensures that the pressure reducer remains constant by reducing the pilot pressure and the output pressure to the desired value. The pressure reducing and stabilizing control valve allows the system to operate at normal values by reducing excessive flow in the downward slope direction and lowering the high pressure. The valve keeps constantly controlling the inlet pressure and outlet pressure without being influenced by the flow rate changes.

#### **Order Information**

Please provide the following information in order

Maximum flow rate .....

m<sup>3</sup>/h Maximum mains / operating pressure ..... Main pipeline diameter .....

mm Valve connection type Maximum valve inlet pressure .....

#### bar

Mipimum valve inlet pressure..... Desired outlet pressure value......

bar Desired valve inlet pressure .....

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# **PRESSURE REDUCING SOLENOID CONTROLLED VALVE**

# **Agricultural**

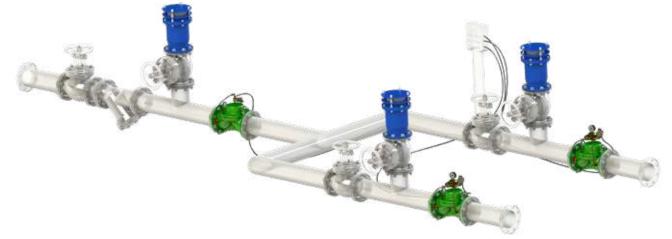


Solenoid Controlled Pressure Reducing Control Valve is a hydraulic control valve that reduces the input pressure value to the desired pressure value. The control of the main valve is effected by solenoid coils mounted on it. The solenoid valve is provided with an electrical signal, a control device, a time relay, a switch, a PLC control unit, and control equipment. Thus, automation and control in application systems are easily achieved.

#### **Order Information**

Please provide the following information in order

- Maximum flow rate ..... m<sup>3</sup>/h
- Maximum mains / operating pressure ...... bar
- Main pipeline diameter ..... mm
- Valve connection type
- Maximum valve inlet pressure ...... bar .
- Minimum valve inlet pressure...... bar Desired outlet pressure value...... bar
- Electric voltage value to be used ...... volt



## Agricultural

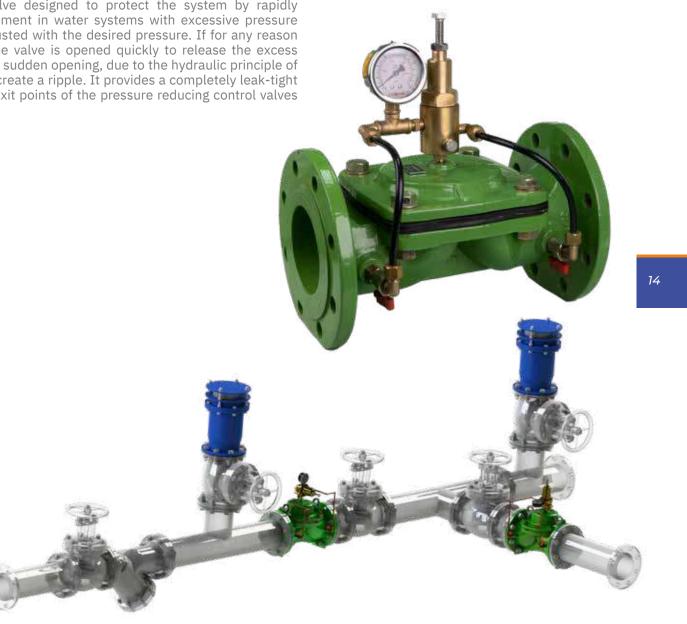
Pressure Sustaining Control Valve is a hydraulic control valve designed to protect the system by rapidly discharging the high pressure wave by sudden opening movement in water systems with excessive pressure increase. With the pilot on the valve, the input pressure is adjusted with the desired pressure. If for any reason the inlet pressure in the system rises above the set value, the valve is opened quickly to release the excess pressure to the outside and the system is protected. Despite its sudden opening, due to the hydraulic principle of operation, the closing of the valve is slowed down so as not to create a ripple. It provides a completely leak-tight seal. It can also be used as a safety and warning valve at the exit points of the pressure reducing control valves alone at critical points in the water system.

#### **Order Information**

Please provide the following information in order

- Maximum flow rate ..... m<sup>3</sup>/h
- Maximum mains / operating pressure ...... bar
- Main pipeline diameter ...... mm
- Valve connection type
- Desired valve inlet pressure ...... bar





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# HYDRAULIC CHECK VALVE

# Agricultural



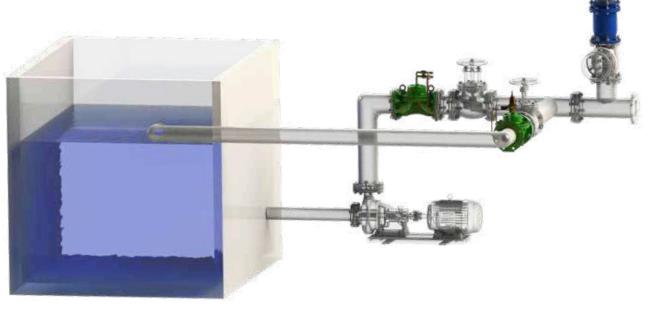
Hydraulic Check Valve is hydraulically controlled check valve which operates with line pressure and prevents back-flow in system. When downstream pressure value exceeds upstream pressure value, valve is closed as wholly sealed without causing surge. When upstream pressure value exceeds downstream pressure value, check valve is opened by itself slowly. So it damps pressure surges formed during start-up.

### **Order Information**

Please provide the following information in order

- Maximum flow rate ..... m<sup>3</sup>/h
- Maximum mains / operating pressure ...... bar
- Main pipeline diameter ..... mm
- Valve connection type





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## Agricultural

The Quick Pressure Relief Control Valve is the safety control valve designed to protect system by releasing pressure surges to atmosphere quickly caused from sudden changes in water speed because pumps put into/ out of service frequently in water network elevation lines. When network pressure goes beyond set point, valve opens by itself quickly and protects system by releasing over pressure. When line pressure decreases to normal level, it is closed slowly and automatically as wholly sealed without causing surge.

#### **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
- Maximum valve inlet pressure ...... bar
- Desired inlet pressure value...... bar

# QUICK PRESSURE RELIEF

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# **FLOAT LEVEL CONTROL VALVE**

## **Agricultural**



The Float Level Control Valve is the hydraulic control valve designed to control water level in reservoirs and tanks continuously. Main valve is controlled by 2-way modulating type float pilot valve manually. Main valve mounted on reservoir and tank upstream is closed as fully sealed without causing surge when water level reaches to maximum level. Valve opening/closing speed may be adjusted in set value. It may be used in the system by mounting horizontal or vertical positions.

#### Order Information

Please provide the following information in order

- Maximum flow rate ..... m<sup>3</sup>/h
- Maximum mains / operating pressure ...... bar
- Main pipeline diameter ..... mm
- Valve connection type



# DIFFERANTIAL FLOAT LEVEL

## Agricultural

The Differential Float Level Control Valve is the hydraulic control valve designed to control water level in reservoirs and tanks continuously. Main valve is controlled by 2-way modulating type float pilot valve manually. Main valve mounted on reservoir and tank upstream is closed as fully sealed without causing surge when water level reaches to maximum level. Valve opening/closing speed may be adjusted in set value. It may be used in the system by mounting horizontal or vertical positions.



Please provide the following information in order

- Maximum flow rate ..... m³/h
- Maximum mains / operating pressure ...... bar
- Main pipeline diameter ..... mm
- Valve connection type
- Desired level control range ......-m



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# ELECTRIC FLOAT LEVEL

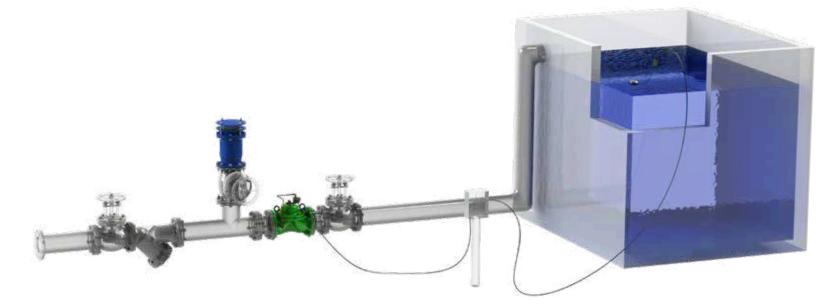
# Agricultural

Electric Float Level Control Valve is a valve that constantly controls water level by electric float placed in the tank. When the water level at the bottom falls below the desired value, the electric floater sends a signal to the solenoid coil on the main valve. This allows the valve to open itself fully and keep the reservoir constantly full. When the water level reaches the maximum level, the electric switch sends a signal again to the solenoid coil and the valve closes itself. The valve can be operated on the system horizontally or vertically.

### 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
- Electric voltage value to be used ...... volt





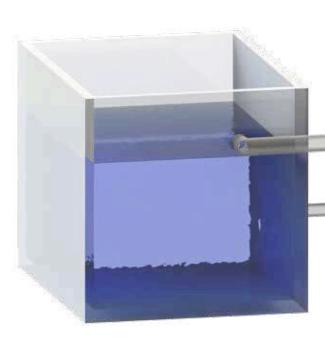
## Agricultural

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





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# SURGE ANTICIPATING CONTROL VALVE

# Agricultural

The Surge Anticipating Control Valve is the safety control valve designed to protect system in relatively longer water supply network elevating line by damping energy waves formed by energy interruptions in pumping systems and by releasing waterhammers which are caused from sudden changes in water flow rate to atmosphere automatically and quickly. Valve is opened quickly by sensing diminished pressure wave previously by means of pressure signal tube it owned. When line pressure reached normal level, it is closed slowly and automatically as wholly sealed

#### **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

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# FLOW CONTROL VALVE

Flow control valves are hydraulic control valves designed to limit the amount of flow demanded. A pressure difference is created with the orifice at the valve inlet, and the flow control pilot installed in the control chamber detects the pressure difference and ensures that the control valve remains open at the desired flow rate. Flow control valve limits the amount of flow desired to be adjusted by keeping it constant without being affected by the inlet pressure and flow values. It is also used to prevent the pump from overloading and cavitation. It avoids excessive water loss by preventing excessive flow during backwashing process in filtration systems. It avoids excessive water loss by limiting the excessive demands of consumers.



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# Y TYPE CONTROL VALVE



TYPHOON Y Type Automatic Hydraulic Control Valves have been designed in "Y" body model type, with their high modulation capacity, to work with minimum pressure loss, cavitation and noise in hard working conditions with high pressure differences. TYPHOON Y Type Automatic Hydraulic Control Valves must close the flap with double chamber diaphragm actuator. It has double control chamber as standard. It can be used as a single chamber without using an extra control chamber. In addition, V-Port is added to the valve, providing excellent control in low flow applications. It operates in a controlled and smooth manner thanks to the valve shaft which is rigidly mounted on the valve body, and opens and closes fully sealed without causing any impact. TYPHOON Y Type Automatic Hydraulic Control Valves can be obtained by adding various control equipments to the Basic valve body and valves that can perform different tasks. TYPHOON Y Type Automatic Hydraulic Control Valves are used in drinking water promotion lines, agricultural irrigation, fire systems, filtration, industrial etc. It is designed to be used in areas.

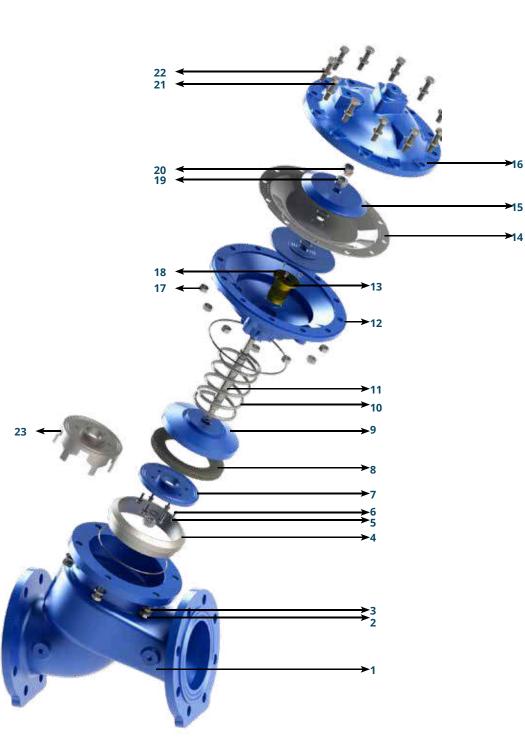
#### Features

- Easy to use and maintain with its simple structure
- Lower costs
- Working in wide pressure range
- Perfect modulation even at low flow rates
- Impact-free opening and closing with flexible diaphragm
- Complete sealing with reinforced diaphragm and inner spring
- Long life with epoxy -Polyester coating
- Wide control application area with the use of different pilot valves
- Ability to work in horizontal and vertical positions in the application areas



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# ТүрНооу



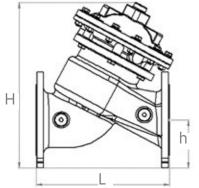
# Y TYPE CONTROL VALVE

#	Material Name	Type of material
1	Body	GGG40
2	Bolt	A2
3	Washer	A2
4	Body Bushing	Stainless Steel
5	Washer	A2
6	Bolt	A2
7	Flap	GGG40
8	Sealing Rubber	Natural Rubber
9	Bowl	GGG40
10	Spring	AISI302
11	Shaft	AISI302
12	Bottom Cover	GGG40
13		
14	Bottom Cap BushingB	
15	Diaphragm	Natural Rubber
16	Diaphragm Support	GGG40 GGG40
17	Top Cover Nut Bolt	A2 A2 A2 A2
18	Nut Nut Bolt	A2 A2 Stainless
19	Washer V-Port	Steel
20	(Optional)	
21		
22		
23		

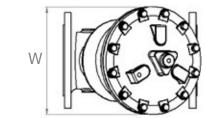
# ТльНооЦ

# Y TYPE CONTROL VALVE \_\_\_\_

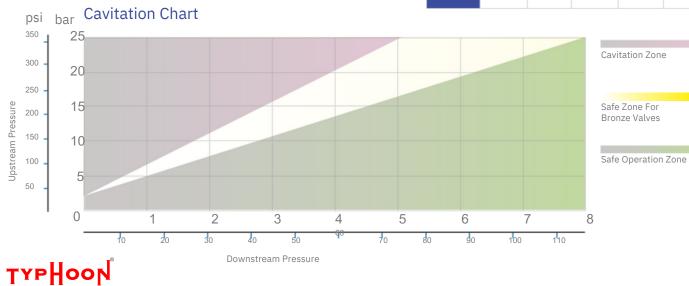
## Sizes and Weights



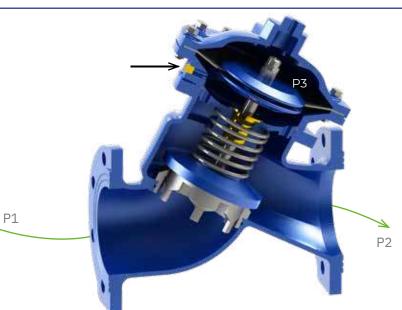
25



	DN		DN L			h	н		W		Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
0	11/2	40	7,09	180	1,83	46,50	9,60	244	6,50	165	23,15	10,50
THREADED	2	50	7,09	180	1,83	46,50	9,60	244	6,50	165	22,70	10,30
THR	21/2	65	7,09	180	1,83	46,50	9,60	244	6,50	165	22,04	10
	2	50	8,86	225	3,25	82,50	11,61	295	6,50	165	28,67	13
	21/2	65	8,86	225	3,64	82,50	11,61	295	7,28	185	33,08	15
	3	80	11,86	300	3,94	100	15,61	385	8,27	210	66,15	30
	4	100	12,60	320	4,53	155	15,75	400	9,84	250	77,18	35
FLANGED	5	125	13,07	332	4,92	125	16,22	412	9,84	250	85,98	39
FLAI	6	150	15,75	400	5,61	142,50	19,49	495	12,60	320	154,35	70
	8	200	19,88	505	6,69	170	22,83	580	16,34	415	264,60	120
	10	250	26,57	675	7,97	202,5	29,53	750	20,28	515	485	230
	12	300	30,51	775	9,05	230	34,37	873	24,21	615	772	350



# Y TYPE CONTROL VALVE



#### Usage With Single Chamber Actuator

The valve actuator is made with a single chamber by removing 2 blind plugs located under the bottom cover and inserting a blind plug into the port next to the bottom cover. In this case, the pressures are P1, P2, P3.

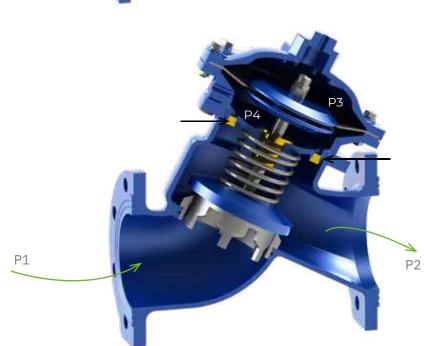
P1: Inlet pressure P2: Outlet Pressure P3: Actuator Pressure

#### Usage with Double Chamber Actuators

The valve actuator is turned into double chamber by closing the blind plug with 2 port holes under the bottom cover and opening the port hole next to the bottom cover. In this case, the pressures are P1, P2, P3, P4.

P1: Inlet pressure P2: Outlet Pressure P3: Actuator Pressure P4: External Pressure}

# ӋѵѻӇ҉ѹ



# **Y TYPE** CONTROL VALVE



## Working Principles

They are automatic control valves with double chamber diaphragm actuators, which are used to perform hydraulically desired operations with line pressure without the need for energy sources in the network line.

P1 : Inlet Pressure

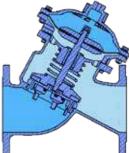
P2 : Outlet Pressure P3: Actuator Pressure Pspring : Spring Force : The Valve's Influence

#### Valve Closing Mode

When the pilots on the main control valve bring the inlet pressure (P1) above the diaphragm, the water creates hydraulic force. Though to this force, the valve flap fits into the body bushing and ensures the valve to be closed in a fully sealed manner.

If the forces are exemined in closing mode :

 $P3 \times 3A + PSpring > P1 \times A$ Inequality is achieved. If there is no external influence on the area indicated by the P 3 pressure, the P3 pressure will be equal to the maximum P1 pressure.



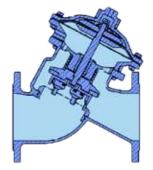
## Valve Opening Mode

The inlet pressure of the main control valve is provided to open the valve by overcoming the spring force that helps the closing process and the force created by the pressure P3 on the diaphragm. If the forces are exemined in opening mode :

 $P1 \times A > Pspring + P3 \times 3A$ 

Inequality is achieved. As the area indicated by the

pressure P3 is evacuated, the differential pressure beactiones us obtaccome by spring force and the valve is opened. Spring force determines the minimum opening pressure that enables the valve to open.



#### Modulation Mode

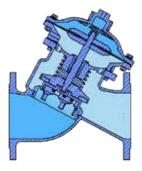
The pilots on the main control valve constantly control the pressure of the fluid and enable it to operate in modulation mode. If the forces are exemined in modulation mode ;

 $P1 \times A + P2 \times 3A = P3 \times 3A + Pspring + P2 \times A$ 

Equality is achieved. The pilot valve, which enables

the valve to operate in modulation mode, regulates the pressures of P2 and P3, providing force equality.

Thus, the valve operates in modulation mode.



TYPHOON

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## **Fire Systems**

Pressure Reducing Control Valves are hydraulic control valves that reduce the input pressure value to the desired pressure value by means of a pressure reducer pilot mounted on it. The pressure reducer control valve constantly controls the output pressure value to be set without being influenced by the flow rate and inlet pressure values. When there is no flow in the system, the valve closes itself. When the valve inlet pressure value in the system falls below the set outlet pressure value, the valve opens itself. The valve can be used in horizontal or vertical position on the system.

# PRESSURE REDUCING CONTROL VALVE



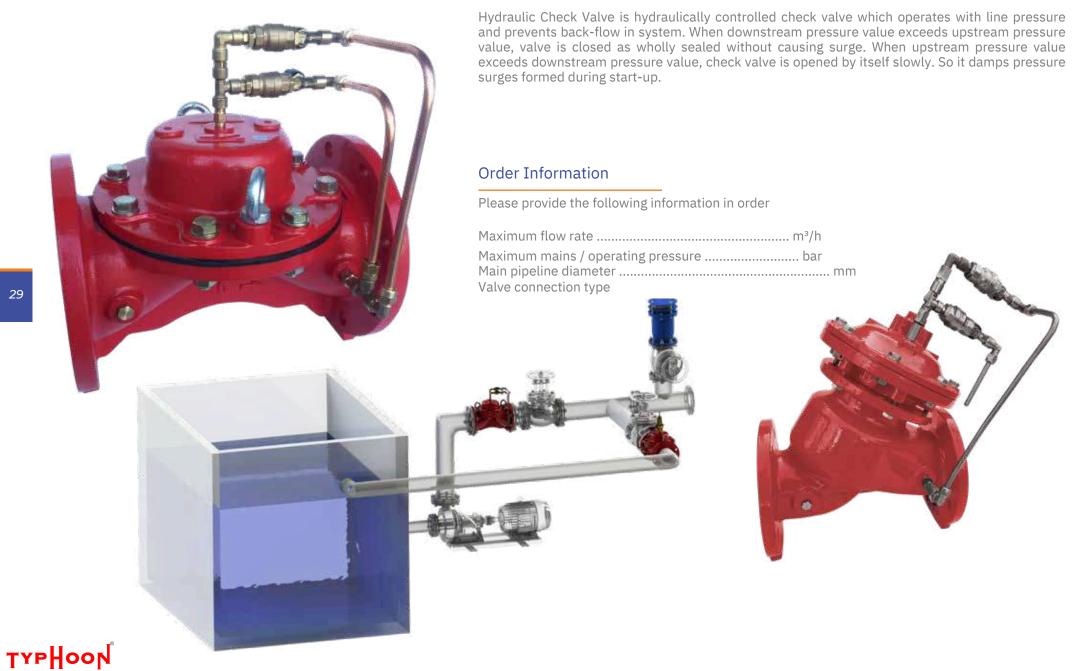
#### Order Information

Please	provide	the	following	information	in	orde
Maximu	ım flow ra	te				. m³/ŀ
Maximu Main	ım mains ,	/ oper	ating press pipeline	ure	dia	ba amete
				mm		
	onnection Im valve					
bar Minimu pressur Desired	m		valve outlet		pr	inle essur
value				Barc-10		
					6	

ТльНооу

# **HYDRAULIC CHECK VALVE**

## **Fire Systems**



29

## **Fire Systems**

The Quick Pressure Relief Control Valve is the safety control valve designed to protect system by releasing pressure surges to atmosphere quickly caused from sudden changes in water speed because pumps put into/ out of service frequently in water network elevation lines. When network pressure goes beyond set point, valve opens by itself quickly and protects system by releasing over pressure. When line pressure decreases to normal level, it is closed slowly and automatically as wholly sealed without causing surge.

# QUICK PRESSURE RELIEF



#### Order Information

Please provide the following information in order

Maximum flow rate	m³/h
Maximum mains / operating pressure	
bar Main pipeline diameter Valve connection type	5
Main pipeline diameter	mm
Valve connection type	4
Desired inlet pressure value	. bar 🚺



# **ELECTRIC FLOAT LEVEL CONTROL VALVE** -

## **Fire Systems**



Electric Float Level Control Valve is a valve that constantly controls water level by electric float placed in the tank. When the water level at the bottom falls below the desired value, the electric floater sends a signal to the solenoid coil on the main valve. This allows the valve to open itself fully and keep the reservoir constantly full. When the water level reaches the maximum level, the electric switch sends a signal again to the solenoid coil and the valve closes itself. The valve can be operated on the system horizontally or vertically.

Please provide the following information in order

Maximum flow rate	. m³/h
Maximum mains / operating pressure	bar
Main pipeline diameter	mm
Valve connection type	
Electric voltage value to be used	volt



ТүрНоор

## **Fire Systems**

**Order Information** 

Valve connection type

The Differential Float Level Control Valve is the hydraulic control valve designed to control water level in reservoirs and tanks continuously. Main valve is controlled by 2-way modulating type float pilot valve manually. Main valve mounted on reservoir and tank upstream is closed as fully sealed without causing surge when water level reaches to maximum level. Valve opening/closing speed may be adjusted in set value. It may be used in the system by mounting horizontal or vertical positions.

# DIFFERANTIAL FLOAT LEVEL **CONTROL VALVE**



# ΤΥΡΗΟΟΝ

# FLOAT LEVEL CONTROL VALVE

## **Fire Systems**

The Float Level Control Valve is the hydraulic control valve designed to control water level in reservoirs and tanks continuously. Main valve is controlled by 2-way modulating type float pilot valve manually. Main valve mounted on reservoir and tank upstream is closed as fully sealed without causing surge when water level reaches to maximum level. Valve opening/closing speed may be adjusted in set value. It may be used in the system by mounting horizontal or vertical positions.

#### 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	





## Plastic

# HYDRAULIC CONTROL VALVES



TYPHOON Plastic Hydraulic Valves are automatic control valves with diaphragm working with line pressure. Hydraulic Control Valves are used in agricultural irrigation, drinking water lines, filtration and industrial areas. TYPHOON Plastic Valves are automatic control valves with diaphragm closure working with line pressure. Valve body and diaphragm design ensure smooth flow with minimum pressure loss. Since there is no bearing, bush and shaft in the valve body, valve life is longer. The only moving part of the valve is the diaphragm. TYPHOON Plastic Hydraulic Control Valves are used in agricultural irrigation, drinking water lines, filtration and industrial areas.

#### Features

- Easy operation and maintenance with simple structure
- Lower costs
- Wide pressure range operation
- Perfect modulation even at low flow rates
- Flexible diaphragm to open and close without impact
- Fully sealed with reinforced diaphragm and internal springu
- Wide range of control applications with different pilot valves
- Ability to work in horizontal and vertical positions in application areas



### 34

# түрНоор

# HYDRAULIC CONTROL VALVES

#### Model

35

Connection	Threaded	
Material	Glass Reinforce	d Polyamide
Body	Globe	
	inch	mm
	3/4 1	25
	11/2	32
Available Diameters	2	40
	21/2	50
	3R	65
	10	80
Max. Operating Pressure	Bar	

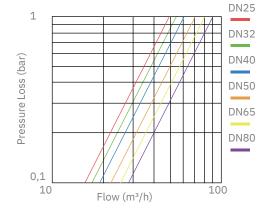


# Regular Body / Threaded

## Main Parts

#	Material Name	Type of Material				
1	Body	Glass Reinforced Polyamide				
2	Diaphragm	Natural Rubber				
3	Spring Seat	Polypropylene SST 302				
4	Spring	Glass Reinforced Polyamide				
5	Cover	A2 Stainless Steel A2				
6	Washer	Stainless Steel Brass				
7	Bolt Nut					
8						

#### Pressure Loss Chart



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тH	I TY A'ST	
3.010		

## Dimensions and Weights

	DN		D		L		H	Weight		
inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg	
3/4	20	1,73	44	5,51	140	2,36	62,50	0,66	0,30	
1	25	1,73	44	5,51	140	2,36	62,50	0,66	0,30	
11/2	40	2,48	63	7,91	201	4,28	100,00	2,54	1,15	
2	50	2,95	75	8,07	211	4,33	105,50	2,65	1,20	
21/2	65	3,66	93	8,64	219	4,64	112,50	3,09	1,40	
3	80	4,33	110	8,78	223	4,88	124,50	3,42	1,55	

## Hydraulic Performance

	inch	mm i	nch m	nm in	ch mr	n incl	h mm	inch	n mm	inch	mm	
Valve Diameter	3/4	25	1	32	11/2	2 40	2	50	21/2	65	3R	80
Kv m³/h@1bar	50		55		60		70		80		90	
Cv gmp@1psi	56		66		69		81		92		104	

# $Kv(Cv) = QV G/\Delta P$

Kv: Valve flow coefficient (flow rate at 1 bar pressure loss m<sup>3</sup>/h @ 1 bar)
Cv: Valve flow coefficient (flow in pressure loss of 1 psi GPM @ 1 psi)
Q: Flow (m<sup>3</sup>/h, gpm)

**Cv** = 1,155Kv **ΔP** : Pressure Loss (bar, psi) **G** : The specific gravity of water(Water=1.0)

# ТүрНооу

#### Working Principles

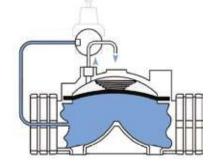
It is a fully automatic hydraulic control valve designed to perform the hydraulically desired modulation processes with the line pressure without the need for different energy sources such as electricity, pneumatic or mechanical in the main valve mains line.

#### Valve Closing Mode

Pilot valves connected to the main valve create a hydraulic force on the valve diaphragm when the water pressure at the valve inlet reaches the actuator actuator (control reservoir) of the valve. This hydraulic force that is created combines the diaphragm of the valve with the extra force exerted by the internal spring to ensure a tight seal.

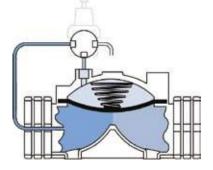
#### Valve Opening Mode

When the path of the pilot valve on the main valve in the closed position is set to the discharge position, the pressurized water in the control chamber on the diaphragm of the main valve is discharged. When the line pressure reaches the spring force, the valve diaphragm applies a hydraulic force to the diaphragm to bring the valve into the full open position.



#### Modulation Mode

The pilot valves that connect the actuator to the main valve allow the main valve to operate in the modulated position. The valve in the actuator of the main valve (control reservoir), according to the flow quantity or pressure conditions to be adjusted, ensures that the fluid continuously operates in the modulated position by controlling the pressure.



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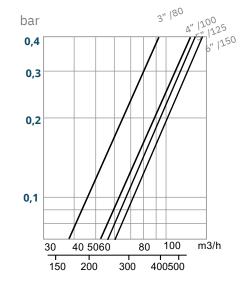
#### Large Body / Flanged - Threaded

#### Model

37

Connection	Flanged - Threaded				
Material	Glass Reinforced Polyamide				
Body	Globe				
	inch	mm			
	3	80			
Available Diameters	4	100			
	5	125			
	6	150 (Flanged)			
Max. Operating Pressure	10 Bar				

#### Pressure Loss Chart



inch

8,66

9,17

9,96

10,43

mm

370

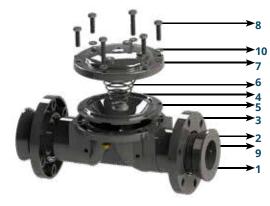
370

390

395

#### Main Parts

#	Material Name	Type of Material
1	Body Flange	Glass Reinforced Polyamide
2	Adapter Flange	Glass Reinforced Polyamide
3	Diaphgram	Glass Reinforced Polyamide
4	Spring Seat	Natural Rubber
5	Spring Cover	Polypropylene SST302
6	Bolt Nut	Glass Reinforced Polyamide
7	Rondela	8.8 Coated Steel 8.8 Coated
8		Steel 8.8 Coated Steel
9		
10		



#### Hydraulic Performance

	inch mm inch mm				inch m	nm inc	h mm	
Valve Diameter	3	80	4	100	5	125	6	150
Kv m3 / h @1bar	16		208		21		22	
Cv gmp @1psi	6		242		5		0	
	19				24	1	2	6
	3				8		0	

### $Kv(Cv) = QV G/\Delta P$

mm

220

233

253

265

Lbs

14,52

16,28

16,53

16,76

Kg

6,60

7,40

7,5

7,6

**Kv**: Valve flow coefficient (flow rate at 1 bar pressure loss m<sup>3</sup>/h @ 1 bar) Cv: Valve flow coefficient (flow in pressure loss of 1 psi GPM @ 1 psi) **Q**: Flow (m<sup>3</sup>/h, gpm)

**Cv** = 1,155Kv

**ΔP**: Pressure Loss (bar, psi)

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

#### **Dimensions and Weights**

mm

80

100

inch

3

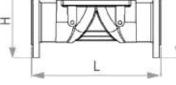
4

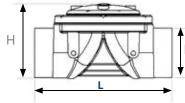
inch

7,87

9,00

1		1 1
Ξ		
		4
× – L	1.	U_7





L	5	125	10,11
	6	150	11,02
	D	N	
	inch	1000 1000	in ala

D	N	[	C	L	-	ŀ	4	Wei	ight
inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
3	80	4,72	120	11,58	294	7,05	179	10,25	4,65
4	100	4,72	120	13,23	336	7,28	185	9,70	4,40

inch

14,57

14,57

13,35

15,55

mm

200

227

257

280

### ΤΥΡΗΟΟΝ

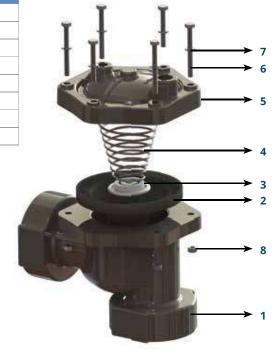
### **Plastic**

Model				
Connection	Threaded			
Material	Glass Reinforced Polyamide			
Body	Angled Globe			
	inch	mm		
Available Diameters	2	50		
Available Diameters	21/2	65		
	3R	80		
Max. Operating Pressure	10 Bar			

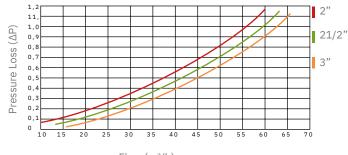
#### Main Parts

#	Material Name	Type of Material
1	Body	Glass Reinforced Polyamide
2	Diaphragm	Natural Rubber
3	Spring Seat	Polypropylene SST 302
4	Spring	Glass Reinforced Polyamide
5	Cover	A2 Stainless Steel A2
6	Bolt	Stainless Steel Brass
7	Washer	
8	Nut	

### Regular / Angled



### **Pressure Loss Chart**



Flow (m<sup>3</sup>/h)

## $\bigcirc$ 0

#### **Dimensions and Weights**

	DN	J	0	)		L	ŀ	ł	Wei	ight
	inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
1	2	50	3,	86	8	203	6,7	172	2,86	1,30
1	21/2	65	4	86	8	203	7	172	2,86	1,20
	3R	80	3,	86	8	203	6,7	172	2,86	1,06
			4				7	Г		_
			З,			Kv(	C &, } =	= QV	G/ΔF	)

Kv: Valve flow coefficient4( flow rate at 1 bar pressurø loss m³/h @ 1 bar) Cv: Valve flow coefficient (flow in pressure loss of 1 psi GPM @ 1 psi) **Q**: Flow (m<sup>3</sup>/h, gpm)

#### Hydraulic Performance

inch		mm	inch	mm	inch	mm
Valve Diameter	2	50	21/2	65	3R	80
Kv m3 / h @1bar	51,0		56,0		66	5,0
Cv gmp @1psi	58	3,9	64	,7	76	5,2

**Cv** = 1,155Kv

#### Δ**P**: Pressure Loss (bar, psi)

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

ΤΥΡΗοοΝ

#### Angled Large Body / Flanged - Threaded

3

2

9

(10)

8

#### Main Parts

#	Material Name	Type of Material
1	Body	Glass Reinforced Polyamide
2	Diaphragm	Naturel Rubber
3	Spring Wedge	Polypropylene
4	Spring	SST 302
5	Cover	Glass Reinforced Polyamide
6	Washer	8.8 Coated Steel
7	Bolt	8.8 Coated Steel
8	Nut	8.8 Coated Steel
9	Flange	Glass Reinforced Polyamide
10	Adapter	Glass Reinforced Polyamide

#### Model

Connection	Flanged - Threaded				
Material	Glass Reinforced Polyamide				
Body	Globe				
	inch	mm			
	3	80			
Available Diameters	4	100			
	6	150			
Max. Operating Pressure	10 Bar				

#### **Dimensions and Weights**

 $Kv(Cv) = QV G/\Delta P$ 

DN		D		L		н		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
3	80	3,9	99	10,	277	8,78	223	11,13	5,05
4	100	3,9	99	9	277	8,78	223	10,8	4,90
				10,					

9

DN		D		L		Н		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
3	80	5,08	129	13,4	341	9,96	253	15,43	7
4	100	5,35	136	2	377	10,28	261	17,19	7,8
6	150	6,38	162	14,8	411	11,14	283	17,64	8
				4					

Kv: Valve flow coefficient (flow rate at 1 bar pressure loss m<sup>3</sup>/h @ 1 bar)
Cv: Valve flow coefficient (flow in pressure loss of 1 psi GPM @ 1 psi)
Q: Flow (m<sup>3</sup>/h, gpm)

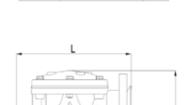
### **Cv**<sup>8</sup>=1,155Kv

16,1

**ΔP**: Pressure Loss (bar, psi)

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

## ҄ҬѵҎӇ҃ѻѻӍ



### Plastic

### HYDRAULIC CONTROL VALVES Manual Flow Lever

The flow rate in the line can be reduced by means of the flow lever on the cover.

#	Material Name	Type of Material
1	Flow Cover	Polypropylene
2	Bolt	Stainless Steel
3	Rondela	Stainless Steel
4	Cover	GRP
5	Flow Shaft	Polypropylene
6	Spring Printing StampP	olypropylene
7	Diaphragm	Natural Rubber
8	Body	GRP
9	Nut	Rice

Available Diameters				
	3/4"			
	1"			
	11/2"			
Goor	2"			
Gear	21/2"			
	3"R			
	3"L			
	4"L			
Flanged	DN80			
riangeu	DN100			
Angle Gear	2"			
	21/2"			
	3"			
Angle Flange	DN80			
	DN100			

### ТльЮоЦал

40

### Plastic

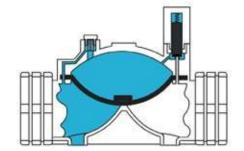
#### 2 Way Solenoid Usage

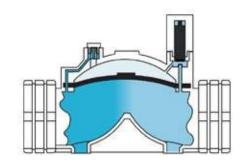
It is controlled by a 2-way solenoid valve connected to the main valve. The normally closed valve switches to the open position when signalled or manually intervened

41

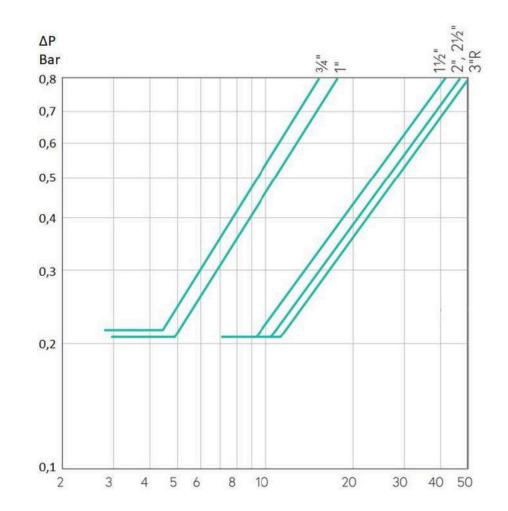
#### Valve Opening Mode







#### Pressure Loss Table



### ТльНооЦ

**Plastic** 



### PRESSURE REDUCING SOLENOID **CONTROL VALVE**

Solenoid Controlled Pressure Reducing Control Valve is a hydraulic control valve that reduces the input pressure value to the desired pressure value. The control of the main valve is effected by solenoid coils mounted on it. The solenoid valve is provided with an electrical signal, a control device, a time relay, a switch, a PLC control unit, and control equipment. Thus, automation and control in application systems are easily achieved. Pressure Range: PN 10 Diameters : 3/4" 1"-1 1/2" - 2" - 2 1/2" - 3"R - 3"-4"

DN80 - DN100 - DN150 Flanged

#### Order Information

Please provide the following information in order

Maximum flow rate .....

m³/h Maximum mains / operating pressure ..... Main pipeline diameter .....

#### mm

Valve connection type Maximum valve inlet pressure .....

Mipimum valve inlet pressure..... esired outlet pressure value.....

tric voltage value to be used.....



ТльНооц

### PRESSURE REDUCING CONTROL VALVE



Pressure Reducing Control Valves are hydraulic control valves that reduce the input pressure value to the desired pressure value by means of a pressure reducer pilot mounted on it. The pressure reducer control valve constantly controls the output pressure value to be set without being influenced by the flow rate and inlet pressure values. When there is no flow in the system, the valve closes itself. When the valve inlet pressure value in the system falls below the set outlet pressure value, the valve opens itself. The valve can be used in horizontal or vertical position on the system. Pressure Range: PN 10 Diameters :  $3/4^{"}$  1"-1 1/2" - 2" - 2 1/2" - 3"R - 3"-4"

#### DN80 - DN100 - DN150 Flanged

#### **Order Information**

Please provide the following information in order

Maximum flow rate .....

#### m³/h

Maximum mains / operating pressure ..... Main pipeline diameter .....

#### mm

Valve connection type Maximum valve inlet pressure .....

#### bar

Mipimum valve inlet pressure...... Desired outlet pressure value......





Plastic



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#### **Plastic**



## PRESSURE REDUCING & SUSTAINING CONTROL VALVE

The Pressure Reducing and Sustaining Control Valve is the control valve that reduces the output pressure to the desired value by holding the input pressure. There are two pilots on the valve. The pilot in the inlet direction is the pressure stabilization pilot and fixes the inlet pressure. The other pilot ensures that the pressure reducer remains constant by reducing the pilot pressure and the output pressure to the desired value. The pressure reducing and stabilizing control valve allows the system to operate at normal values by reducing excessive flow in the downward slope direction and lowering the high pressure. The valve keeps constantly controlling the inlet pressure and outlet pressure without being influenced by the flow rate changes. Pressure Range: PN 10

Diameters : 3/4" 1"-1 1/2" - 2" - 2 1/2" - 3"R - 3"-4"

DN80 - DN100 - DN150 Flanged

#### **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	
Maximum valve inlet pressure	bar
Minimum valve inlet pressure	bar
Desired outlet pressure value	bar
Desired valve inlet pressure	bar 🎽

bar bar bar bar bar bar bar

# QUICK PRESSURE RELIEF

### Plastic

The Quick Pressure Relief Control Valve is the safety control valve designed to protect system by releasing pressure surges to atmosphere quickly caused from sudden changes in water speed because pumps put into/ out of service frequently in water network elevation lines. When network pressure goes beyond set point, valve opens by itself quickly and protects system by releasing over pressure. When line pressure decreases to normal level, it is closed slowly and automatically as wholly sealed without causing surge. Pressure Range: PN 10 Diameters : 3/4" 1"-1 1/2" - 2" - 2 1/2" - 3"R - 3"-4"

DN80 - DN100 - DN150 Flanged

#### **Order Information**

Please provide the following information in order

Maximum flow rate	m³/h
Maximum mains / operating pressure b	ar
Main pipeline diameter	mm
Valve connection type	
Desired valve inlet pressure	bar



### ТльНооу

### Plastic



SOLENOID CONTROL VALVE

The Solenoid Controled Valve is the hydraulic control valve operated by line pressure and designed to ensure opening/closing process by means of built-in 3/2-way solenoid pilot valves controlled remotely with electric signal. Electric signal for solenoid pilot valves is ensured by means of a control device, time relay, main switch and PLC control units etc. Opening/Closing process may be realized easily thanks to manual control on solenoid pilot valve. Depending on desire, 24V AC 50Hz/60Hz or 12V DC, 9V DCLATCH and 12V DC latch normally open (N.O.) or normally closed (N.C.) solenoid coils may be used on main valve. Pressure Range: PN 10 Diameters : 3/4" 1"-1 1/2" – 2" – 2 1/2" – 3"R - 3"-4"

DN80 - DN100 - DN150 Flanged

#### **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	
Electric voltage value to be used	. volt



### PRESSURE SUSTAINING CONTROL VALVE

### Plastic



Pressure Sustaining Control Valve is a hydraulic control valve designed to protect the system by rapidly discharging the high pressure wave by sudden opening movement in water systems with excessive pressure increase. With the pilot on the valve, the input pressure is adjusted with the desired pressure. If for any reason the inlet pressure in the system rises above the set value, the valve is opened quickly to release the excess pressure to the outside and the system is protected. Despite its sudden opening, due to the hydraulic principle of operation, the closing of the valve is slowed down so as not to create a ripple. It provides a completely leak-tight seal. It can also be used as a safety and warning valve at the exit points of the pressure reducing control valves alone at critical points in the water system. Pressure Range: PN 10 Diameters : 3/4" 1"-1 1/2" – 2" – 2 1/2" – 3"R - 3"-4"

#### DN80 - DN100 - DN150 Flanged

#### Order Information

Please provide the following information in order

Maximum flow rate	m³/h
Maximum mains / operating pressure b	ar
Main pipeline diameter	. mm
Valve connection type	
Maximum valve inlet pressure	bar
Desired valve inlet pressure	bar





ΤΥΡΗΟΟΝ

### FLOAT LEVEL CONTROL VALVE





The Float Level Control Valve i}s the hydraulic control valve designed to control water level in reservoirs and tanks continuously. Main valve is controlled by 2-way modulating type float pilot valve manually. Main valve mounted on reservoir and tank upstream is closed as fully sealed without causing surge when water level reaches to maximum level. Valve opening/closing speed may be adjusted in set value. It may be used in the system by mounting horizontal or vertical positions. Pressure Range: PN 10 Diameters : 3/4" 1"-1 1/2" - 2" - 2 1/2" - 3"R - 3"-4"

DN80 - DN100 - DN150 Flanged

#### **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





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### MANUALLY CONTROLED VALVE



Manualy Controled Valves are hydraulic control valves which are operated by line pressure and provide 3-way mini valves for on-off operation. The valve has a minimum opening pressure of 0.7 bar. Thanks to its flexible diaphragm, it performs an easy and quick check operation in high pressure applications and is shut off without impact. Pressure Range: PN 10 Diameters :  $3/4^{"}$  1"-1 1/2" - 2" - 2 1/2" - 3"R - 3"-4"

DN80 - DN100 - DN150 Flanged

#### **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





**Plastic** 

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#### Plastic



## Y TYPE CONTROL VALVE

TYPHOON Y Type Plastic Automatic Hydraulic Control Valves are designed in "Y" body model type, with high modulation capacity, to work with minimum pressure loss, cavitation and noise under difficult working conditions with high pressure differences.

TYPHOON Y Type Plastic Automatic Hydraulic Control Valves are close the flap with double chamber diaphragm actuator. It has double control chamber as standard. It can be used as a single chamber without using an extra control chamber. Through to the valve shaft, which is rigidly mounted on the valve body, it operates in a controlled and properly opens and closes fully sealed without causing impact.

TYPHOON Y Type Plastic Automatic Hydraulic Control Valves provide maximum performance under difficult conditions with glass reinforced nylon body structure. It is easy to assemble and disassemble with its simple and reliable structure. It has high chemical and corrosion resistance.

TYPHOON Y Type Automatic Hydraulic Control Valves can be obtained by adding various control equipments to the Basic valve body and valves that can make different tasks.

#### Order Information

Please provide the following information in order

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

#### Features

- Easy to use and maintain with its simple structure
- Lower costs
- Working in wide pressure range
- Perfect modulation even at low flow rates
- Impact-free opening and closing with flexible diaphragm
- Fully sealing with reinforced diaphragm and inner spring
- High diaphragm resistance
- Wide control application area with different pilot mounts
- · Ability to work in horizontal and vertical positions

### ТүрНооЛ

# Y TYPE CONTROL VALVE

15 <	1
	3 4 5
	7 8 9 1 1
12	1 1 1 1

#	Material Name	Type Of Material
1	Body	Glass Fiber Reinforced Polyamide
2	Flap	Stainless Steel
3	Sealing Rubber	EPDM
4	Bowl	Stainless Steel
5	Shaft	Stainless Steel
6	Bottom Cover	Glass Fiber Reinforced Polyamide
7	Diaphragm	Natural Rubber
8	Diaphragm Support	Stainless Steel
9	Spring	Stainless Steel
10	Top Cover	Glass Fiber Reinforced Polyamide
11	Nut	Stainless Steel
12	Nut	Brass
13	Bolt	Stainless Steel
14	Bolt	Stainless Steel
15	Washer	Stainless Steel

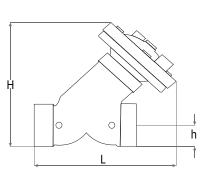
### ЧооНал

#### Plastic

## Y TYPE CONTROL VALVE

#### **Dimentions and Weights**

D	N	L		h		Н		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	Lbs	Kg
2	50	6,49	165	1,49	38	8,86	225	3,86	1,75
3/4	20	5,31	135	1,02	26	5,23	133	2,09	0,95
1	25	5,31	135	1,02	26	5,23	133	2,20	1,00
11/4	32	5,31	135	1,14	29	5,23	133	2,31	1,05
11/2	40	8,78	165	1,49	38	8,86	225	3,86	1,75
2	50	6,49	165	1,49	38	8,86	255	3,86	1,75



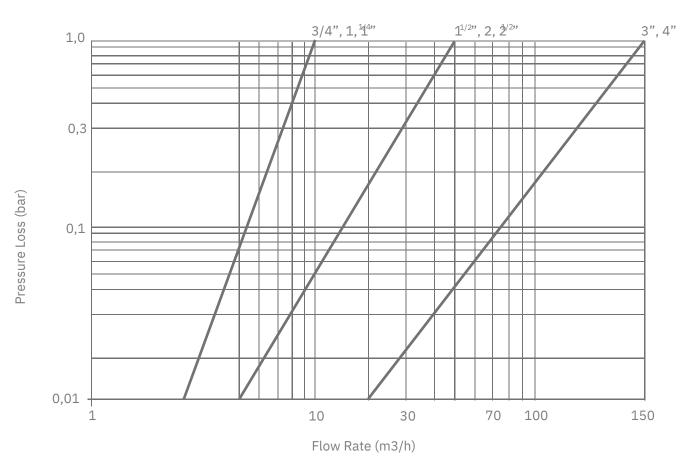
Working Temperature: Maximum 800C Working Pressure: Maximum 10 Bar



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### Y TYPE CONTROL VALVE \_\_\_\_

#### Pressure Loss Chart



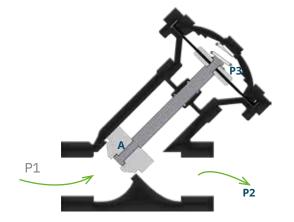
53

### ТүрНоол

Plastic

#### **Plastic - Serie 1**





#### Working Principles

They are automatic control valves with double chamber diaphragm actuators, which are used to perform hydraulically desired operations with line pressure without the need for energy sources in the network line.

P1 : Inlet Pressure

- P2 : Outlet Pressure
- P3 : Actuator Pressure

#### Valve Closing Mode

When the pilots on the main control valve bring the inlet pressure (P1) above the diaphragm, the water creates hydraulic force. Though to this force, the valve flap fits into the body bushing and ensures the valve to be closed in a fully sealed manner.

If the forces are exemined in closing mode ;

P3 x 3A + PSpring > P1 x A Inequality is achieved. If there is no external influence on the area indicated by the P 3 pressure, the P3 pressure will be equal to the maximum P1 pressure.



#### Valve Opening Mode

The inlet pressure of the main control valve is provided to open the valve by overcoming the spring force that helps the closing process and the force created by the pressure P3 on the diaphragm. If the forces are exemined in opening mode :

If the forces are exemined in opening mod

P1 x A > Pspring+ P3 x 3A

Inequality is achieved. As the area indicated by the

pressure P3 is evacuated, the differential pressure beActionce 0s objectione by spring force and the valve is opened. Spring force determines the minimum opening pressure that enables the valve to open.



#### Modulation Mode

The pilots on the main control valve constantly control the pressure of the fluid and enable it to operate in modulation mode. If the forces are exemined in modulation mode;

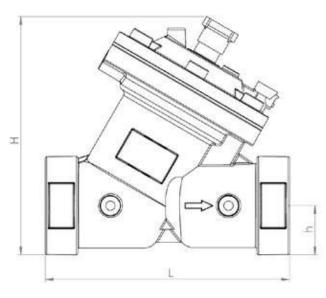
 $P1 \times A + P2 \times 3A = P3 \times 3A + Pspring + P2 \times A$ 

Equality is achieved. The pilot valve, which enables

the valve to operate in modulation mode, regulates the pressures of P2 and P3, providing force equality. Thus, the valve operates in modulation mode.

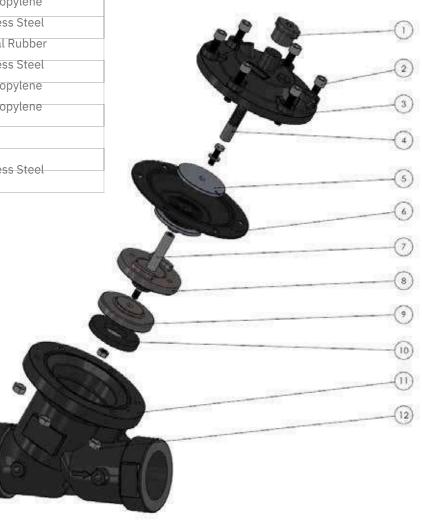


# Y TYPE CONTROL VALVE \_\_\_\_\_



#	Material Name	Type Of Material
1	Flow Rate Clamp	Polypropylene
2	Bolt	Stainless Steel
3	Cover	GRP
4	Flow Shaft	Polypropylene
5	Aperture Support	Stainless Steel
6	Diaphragm	Natural Rubber
7	Mil	Stainless Steel
8	Bottom Cover	Polypropylene
9	Dish	Polypropylene
10	Sealing Rubber	EPDM
11	Body	GRP
12	Nut	Stainless Steel

Connection	DI	N	L		h		ŀ	ł
	inch	mm	inch	mm	inch	mm	inch	mm
	3/4"	20	6,50	165	1,02	26,0	6,30	160
	1"	25	6,50	165	1,02	26,0	6,30	160
	11/4"	32	6,50	165	1,18	30,0	6,46	164
Thursday	11/2"	40	8,78	223	1,46	37,0	8,94	227
Threaded	2"	50	8,78	223	1,57	40,0	9,06	230
	21/2"	65	8,98	228	1,89	48,0	9,37	238
	3"	80	11,81	300	2,40	61,0	11,6	295
	4"	100	12,60	320	2,89	73,5	12,0	305
	2"	50	11,28	261	3,25	82,5	0	270
	21/2"	65	11,28	267	3,64	92,5	10,62	280
Flanged	3"	80	15,59	396	3,84	97,5	\$2,9	330
	4"	100	15,59	396	4,47	113,5	9	346
	3"	80	11,81	300	2,05	52,0	13,6	285
Victaulic	4"	100	11,81	300	2,26	57,5	2	290



### ТльЮоЦал

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FOOT VALVE

Foot Valve is used to prevent back flow that occurs when the pump is turned off. It reacts quickly with its flap system. It provides a silent, non-impact and leak-proof closure. With its filter function, it prevents the entry of foreign / harmful particles into the system and prevents the parts

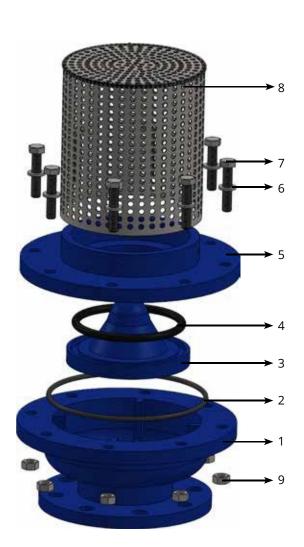
With its filter function, it prevents the entry of foreign / harmful particles into the system and prevents the parts inside from being damaged.

#### **Order Information**

Please provide the following information in order

Maximum flow rate m³/h
Maximum mains / operating pressure bar
Main pipeline diameter mm

#	Material Name	Type of Material
1	Body	GGG40 NBR
2	Oring	GGG40 NBR
3	Flap	GGG40 8.8
4	Oring	Coated Steel 8.8
5	Cover	Coated Steel
6	Washer	AISI 302 8.8
7	Bolt	Coated Steel
8	Filter	
9	Nut	

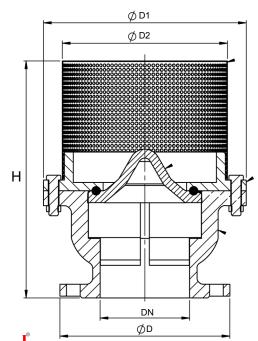




### ТльНооу

### FOOT VALVE

				Siz	es						
DI	N	E	)	D	1	D	2	ŀ	4	vve	ight
inch	mm	lbs	kg								
2	50	6,50	165	9,84	250	7,24	184	10,98	279	38,39	17,45
2 1/2	65	7,28	185	9,84	250	7,24	184	10,98	279	41,25	18,75
3	80	7,87	200	11,02	280	8,58	218	13,11	333	51,59	23,45
4	100	8,66	220	11,02	280	8,58	218	13,11	333	51,92	23,60
5	125	9,84	250	12,60	320	10,00	254	14,09	358	72,38	32,90
6	150	11,22	285	13,39	340	10,79	274	15,67	398	98,34	44,70
8	200	13,39	340	16,14	410	13,07	332	20,47	520	165,00	75,00
10	250	15,94	405	18,11	460	13,86	352	21,89	556	209,00	95,00
12	300	18,11	460	20,47	520	15,98	406	25,83	656	240,24	109,20
16	400	22,83	580	25,20	640	20,87	530	28,58	726	374,00	170,00
20	500	28,15	715	30,51	775	20,87	530	30,31	770	583	265,00







## VALVES

It is called the Air Valve which determines the air - water balance in the system. During the filling of the pipeline; The air in the line evacuates the air in the system quickly. Due to various reasons, it allows small quantities of air to accumulate in the pipeline during operation, under pressure.

During the evacuation of the pipeline, air is sucked into the pipe to prevent vacuum formation, and cavitation hazards are prevented by balancing the system pressure with the atmospheric pressure.

Plastic Air Valves are three types;

- 1. Single Effect (Kinetic) Plastic Air Valve 1/2" <sup>3</sup>/<sub>4</sub>" 1" and 2"
- 3. Tripple Effect (Combination) Plastic Air Valve 2"

#### Order Information

Please provide the following information in order

Maximum mains / operating pressure bar
Main pipeline diameter mm
Valve connection type









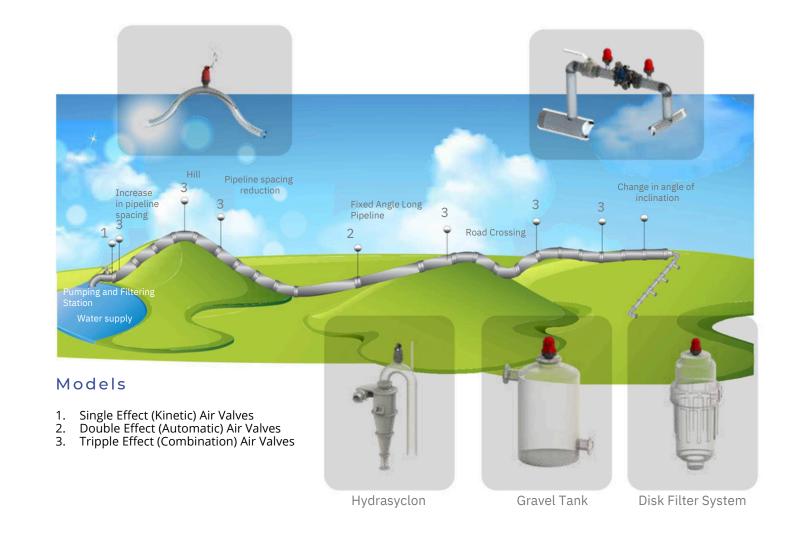


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### AIR VALVES

#### Plastic Air Valves Usage Locations;

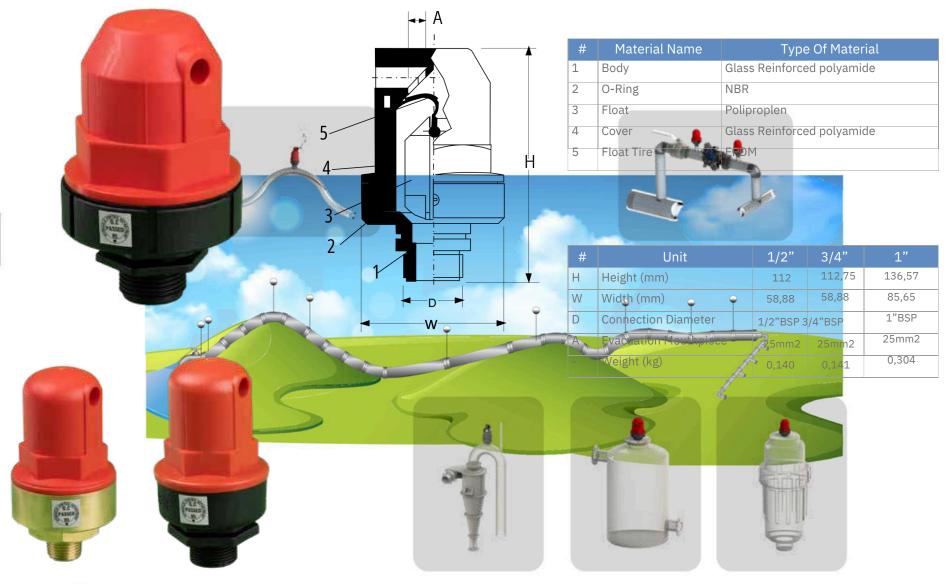
- 1. In agricultural irrigation, (every 400-500 mt on straight lines on the main line, at the beginning of the slope, 400-500 mt at the upward inclines at the peak points, before the beginning of the deflection and before the end of the line and before the irrigation valve (At the points indicated in the figure) In filtration systems, (Disc Filter, Hydrocyclone, Gravel Tank, Automatic Horizontal Filters, etc.).
- 2. Factory installations in industrial areas, In treatment systems and so on.
- 3.



### τγρμοοή

### DOUBLE EFFECT (Automatic) AIR VALVES

### 1/2" - 3/4" - 1" Double Effect (Automatic) Air Valve



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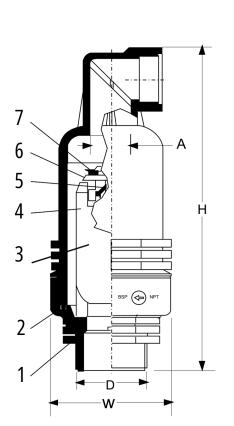
ΤΥΡΗΟΟΝ

# TRIPPLE EFFECT (Combination) AIR VALVES

#### 2" Tripple Effect (Combination) Air Valve

#	Material Name	Type Of Material
1	Body	Glass Reinforced polyamide
2	O-Ring	NBR
3	Cover	Glass Reinforced polyamide
4	Float	Poliproplen
5	Fork Rubber	EPDM
6	Float Fork	Glass Reinforced polyamide
7	Float Seal	EPDM

#	Unit	2"
Н	Height (mm)	243
WW	idth (mm)	103
D	Connection Diameter	2" BSP
a	Evacuation Mouthpiece	7mm2
-	Weight (kg)	0,695
A	Kinetic Nozzle Area	855mm2



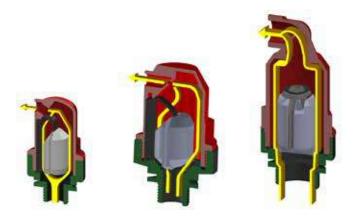


### ТльҢооӋ

#### Discharge Mode

#### **Open Position**

Provides rapid evacuation of the high amount of air in the pipeline from the system during the first start of the system



#### **Closed Position**

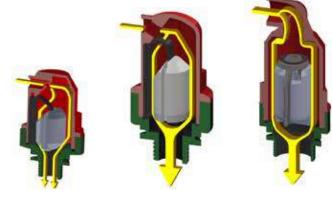
When the water reaches the air valve, the float lifts up and closes the outlet of the air valve

## VALVESPressure Stabilization Mode

#### **Open Position**

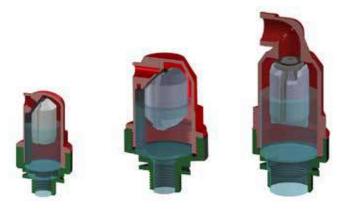
AIR

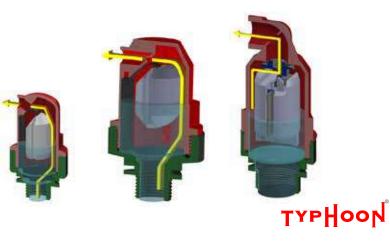
During drawing or evacuating the water from the pipeline. The pressure in the line is lower than atmospheric pressure. This condition called vacuum effect, and its causes collapse and cavitation damage in pipes. The float goes down (Open position) and avoids this problem by letting air flow from the outside to the pipeline.



#### **Closed Position**

When the system is in service, that is, when the pipeline is under pressure, the low amount of air is dragged with water and collected in certain places such as high parts of the line. The high pressure accumulated air is evacuated with water and the float is partially opened (Modulation position). After evacuation, the float rises again and closes the air valve outlet (Closed position).

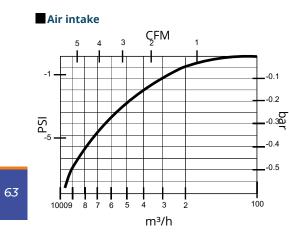




AIR VALVES

#### 2" Tripple Effect (Combination ) Air Valve

### 1/2" - 3/4" - 1" Double Effect (Automatic) Air Valve

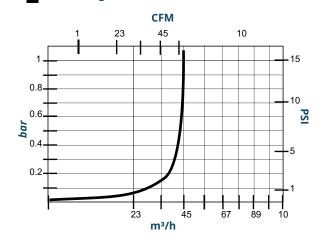


#### Air Discharge CFM 1001 23 45 000 15 0.9 0.8 0.7 10 0.6 PSI **b**0.5 0.4 0.3 0.2 0.1. 67 89 100 23 45 m³/h

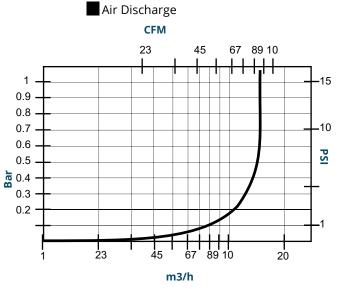
#### Air intake CFM 543 109 876 2 ++++-1. \_ -0.1 - -0.2 PSI \_ -0.3 🜄 -5-- -0.4 -0.5 30 20 109 87 6 5 4 3 2 1

m3/h

Air Discharge -Autom atic Valve

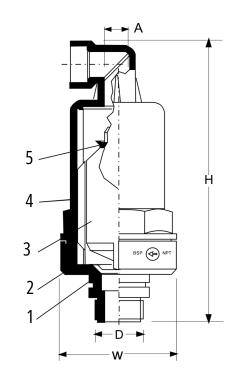






# SINGLE EFFECT (KINETIC)







#	Material Name	Type of Material
1	Body	Glass Reinforced polyamide
2	O-Ring	NBR
3	Float	Polipropylene
4	Cover	Glass Reinforced polyamide
5	Float Tire	EPDM

#	Unit	1/2"	3/4"	1"
Н	Height (mm)	111,9	112,1	191,60
W	Width (mm)	8	2	85,65
D	Connection Diameter	1 <i>5</i> 28',669P3	/4'588588	1"BSP
А	Evacuation mouthplace	314 mm2	314 mm2	314 mm2
-	Weight (kg)	0,138	0,141	0,364

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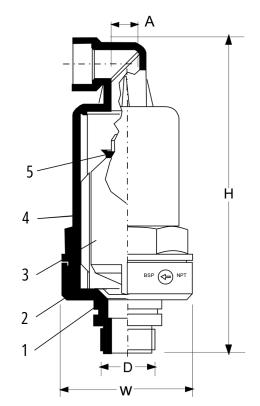


# SINGLE EFFECT (KINETIC)

#### 2" Single Effect (Kinetic) Air Valve

#	Material Name	Type of Material
1	Body	Glass Reinforced polyamide
2	O-Ring	NBR
3	Float	Polipropylene
4	Cover	Glass Reinforced polyamide
5	Float Tire	EPDM

#	Unit	2"
Н	Height (mm)	243
W	Width (mm)	103
D	Connection Diameter	2"BSP
А	Evacuation mouthplace	855 mm2
-	Weight (kg)	0,672





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### ТүрӇооЍ

### AIR VALVES

#### Discharge Mode

#### **Open Position**

Provides rapid evacuation of the high amount of air in the pipeline from the system during the first start of the system



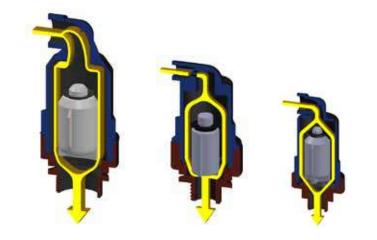
#### **Closed Position**

When the water reaches the air valve, the float lifts up and closes the outlet of the air valve



#### Pressure Stabilization Mode Open Position

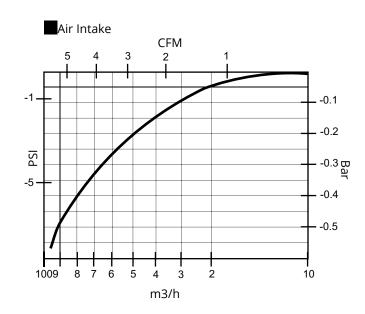
During drawing or evacuating the water from the pipeline. The pressure in the line is lower than atmospheric pressure. This condition called vacuum effect, and its causes collapse and cavitation damage in pipes. The float goes down (Open position) and avoids this problem by letting air flow from the outside to the pipeline.

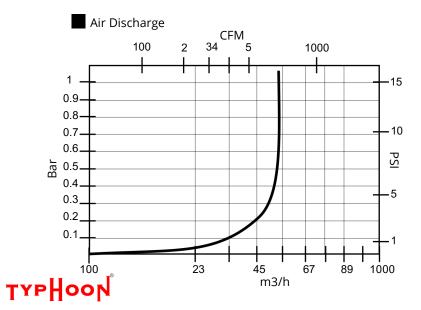


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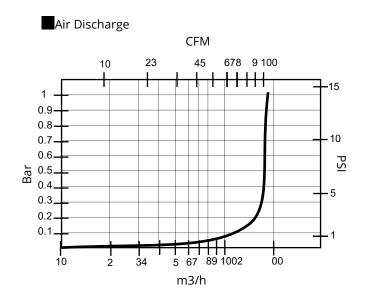
### AIR VALVES

#### 2" Single Effect (Kinetic) Air Valve

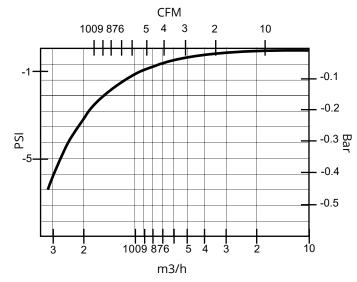




#### 1/2" - 3/4" - 1" Single Effect (Kinetic) Air Valve



Air Intake



### NON SLAM DYNAMIC

## AIR RELEASE VALVES

In a Non Slam Dynamic Air Release Valve; Air and water situated in the suction pipe begins to move at a high speed. When the water reaches the air release valve at a high speed the valve will suddenly close which will cause an impact on the system. Non slam dynamic air valves slow down the high speed evacuation gradually. It does not reflect this problem on to the system.

In the case of a column break, the water columns are separated from each other to create a low pressure between them. During this time, the air sucks in high volume in normal suction cups.

However, in our suction cup, there is a non-impact suction such as a pulse. Thus, moments are reduced while the columns are separated from each other. The momentum is lost and the columns return again. Standard suction cups will blow air out quickly. Thus, the collision speed and impact of the columns increase. Unwrapped opening and closing suspends the water columns and reduces the energy of the columns as a pillow acts as the columns are opened and closed with some vacuum and air remaining. This solves the pulse problem

#### Order Information

Trelloop

Please provide the following information in order

Maximum mains / operating pressure ...... bar Main pipeline diameter ..... mm Valve connection type

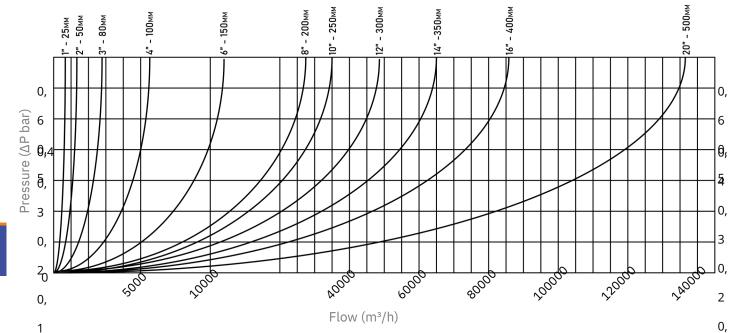


#	Material Name	Type of Material
1	Top Cover	ST-37 ST-37
2	Cover	GGG40 8.8
3	Top Body	Stainless Steel
4	Stud Bolt	Stainless Steel 8.8
5	Valve	Stainless Steel
6	Nut	GGG40 Stainless
7	Body	Steel HDPE 8.8
8	Filter	Stainless Steel
9	3rd Float	HDPE HDPE
10	Bolt	Stainless Steel
11	2nd Float	
12	1st Float	
13	Washer	

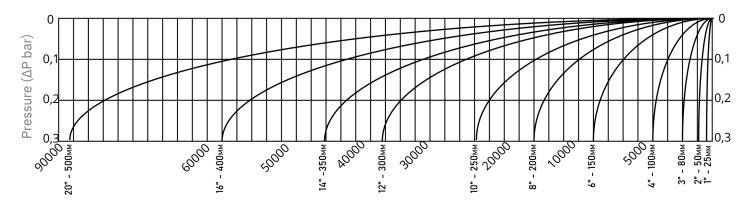


### NON SLAM DYNAMIC AIR RELEASE VALVES

#### Nominal Air Release Capacity of Non-Pulse Dynamic Air Release Valve



Nominal Air Intake Capacity of Non-Pulse Dynamic Air Relief Valve

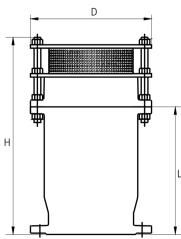


### ТльНооЦ

Flow (m<sup>3</sup>/h)

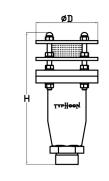
#### Flanged

DN		D	L		Н		Weight	
inch	mm	inch mm	inch	mm	inch	mm	lbs	kg
2	50	6,50 165	8,11	206	12,91	328	32,30	14,650
21/2	65	7,28 185	8,11	206	12,91	328	33,00	14,950
3	80	7,87 200	9,45	240	14,88	378	47,40	21,500
4	100	8,66 220	10,24	260	15,75	400	57,20	25,950
6	150	11,22 285	11,81	300	17,68	449	100,50	45,600
8	200	13,39 340	11,81	300	18,03	458	132,60	60,150
10	250	15,95 405	17,91	455	24,88	632	271,20	123,000
12	300	18,11 460	18,70	475	25,20	640	436,80	198,150



#### Threaded

DI	DN		D		Н		Weight	
inch	mm	inch	mm	inch	mm	lbs	kg	
1"	25	4,50	115	10,16	258	12,10	5,50	
11/2"	40	4,50	115	10,16	258	13,23	6,00	
2"	50	6,50	165	13,80	350	27,60	12,50	



### NON SLAM DYNAMIC AIR RELEASE VALVES



#### Full Open

Allows air to be absorbed or discarded at low pressure differentials

#### Air Release

System air bubbles Away from the system.





#### Non Slam Closed

High air pumping slows down intake and suction speeds.

#### Full Closed

System is sealed Fully closed when running It happens



### **1" SINGLE CHAMBER & SINGLE FUNCTION AIR VALVES**

The 1" Air Release Valves are designed to perform single specified function: The Discharge of pressurized air pockets during the operation. The 1" Air Valves that are installed especially in the pump stations decrease overall pumping costs by discharging small pressurized air pockets that are slowing down the water flow.

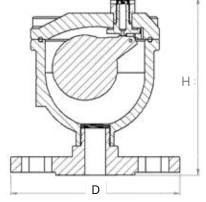
#### **Order Information**

Please provide the following information in order

Maximum mains / operating pressure ...... bar Main pipeline diameter ..... mm Valve connection type







Size (inch - DN)		D PN 10/16		H PN10/16		Weight
		inch mm		inch mm		kg
1"	Threaded	5,59	142	6,456	164,0	6,38
DN40	Flanged	5,91	150	7,697	195,5	7,00
DN50	Flanged	6,50	165	7,697	195,5	7,50
DN65	Flanged	7,28	185	7,697	195,5	9,70
DN80	Flanged	7,87	200	7,697	195,5	10,00
DN100	Flanged	8,66	220	7,697	195,5	11,00
DN150	Flanged	11,22	285	7,697	195,5	13,00



#	Material Name	Type of Material
1	Flanged	GGG40 GGG40
2	Body	NBR HDPE
3	O-Ring	Brass Brass
4	Floater Ball	EPDM GGG40
5	Floater Pin	Brass Stainless
6	Orifice	Steel
7	Sealed Rubber	
8	Cover	
9	Inbus Bolt	
-10	Bolt	

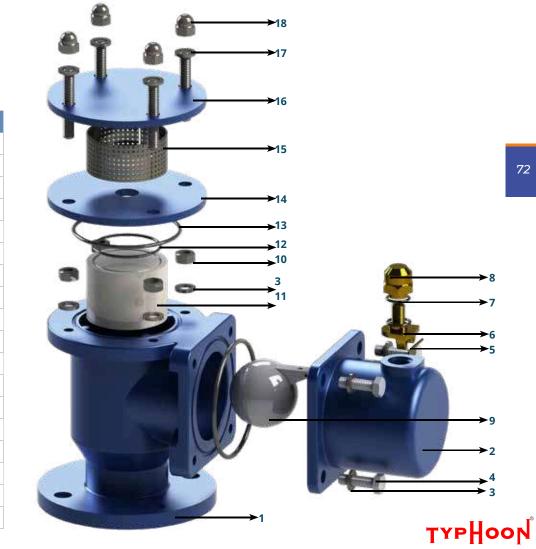
# **DOUBLE CHAMBER AIR RELEASE VALVES**

#### Order Information

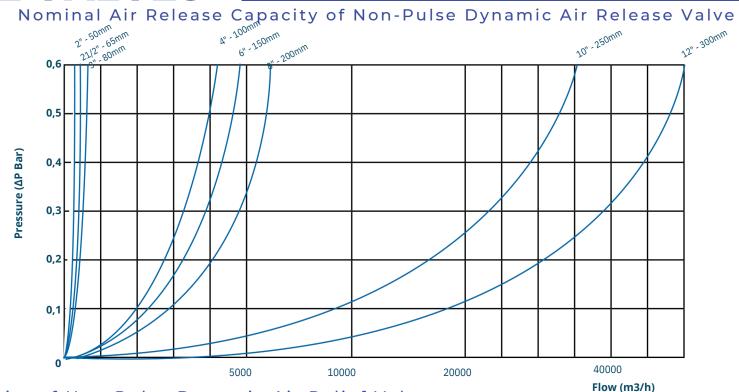
Please provide the following information in order

Maximum mains / operating pressure ...... bar Main pipeline diameter ...... mm Valve connection type

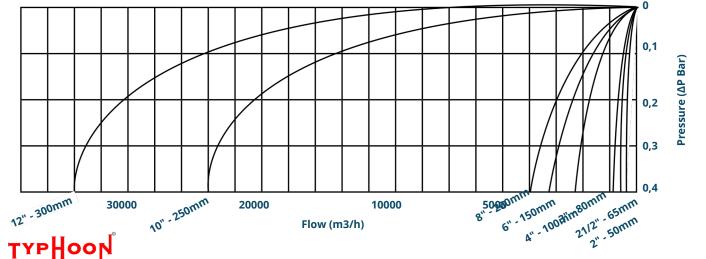
#	Material Name	Type of Material
1	Body	GGG40 GGG40
2	Side Cover	Stainless Steel
3	Washer	Stainless Steel
4	Nut	Brass Brass
5	Floater Pin	EPDM Brass
6	Orifices	PE-ABS-PC
7	Sealed Rubber	Stainless Steel
8	Orifice Cover	Polietilen 6
9	Floater Ball	NBR NBR ST37
10	Nut	AIS 302 ST37
11	Floater	Stainless Steel
12	O-Rİng	Stainless Steel
13	O-Ring	
14	Bottom Sheet	
15	Filter	
16	Top Sheet	
17	Stud Bolt	
18	Blind Nut	



# **DOUBLE CHAMBER AIR RELEASE VALVES**



Nominal Air Intake Capacity of Non-Pulse Dynamic Air Relief Valve

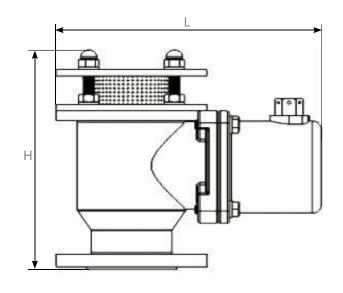


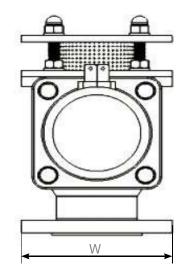
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# DOUBLE CHAMBER AIR RELEASE VALVES

#### **Dimensions and Weights**

DI	N	V	/	L	-	ŀ	ł	Wei	ght
inch	mm	inch	mm	inch	mm	inch	mm	lbs	Kg
2"	50	6,496	165	11,378	289	11,06	281	31,90	14,5
2 1/2"	65	7,283	185	11,772	299	11,06	281	33,44	15,2
3"	80	7,874	200	13,150	334	13,31	338	57,64	26,2
4"	100	8,661	220	13,543	344	13,31	338	60,72	27,6
6"	150	11,220	285	16,102	409	15,20	386	83,60	38,0
8"	200	13,386	340	18,267	464	15,20	386	121,00	55,0
10"	250	15,950	405	22,440	570	26,97	685	286,60	130,0
12"	300	18,110	460	23,820	605	23,23	590	440,90	200,0





# SINGLE CHAMBER KINETIC VACUUM AIR VALVES

TYPHOON Single Chamber Air Release and Vacuum Valves are designed to perform two functions:

1. The venting of large volumes of air on the start-up of the system, while pipelines are failled.

2. The intake of large volumes of air on shut-of the system, while pipelines are being drained.

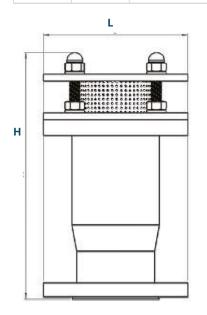
#### Operations

- 75
- 1. System is turned-on by a valve opening or a pump start:
  - a. Water moves along the pipeline, pushing air.
  - b. The air is vented through the air valve.
  - c. Water flows inside the air valve, causing the float to rise and seal the outlet.
- 2. System is turned-o! by a valve closing, pump shut-o! or by an electricty failure:
  - a. Water drains and the level of water in the pipeline drops, causing vacuum inside the system.
  - b. The "oat drops and opens the outlet of the valve.
  - c. Air is let in the system.

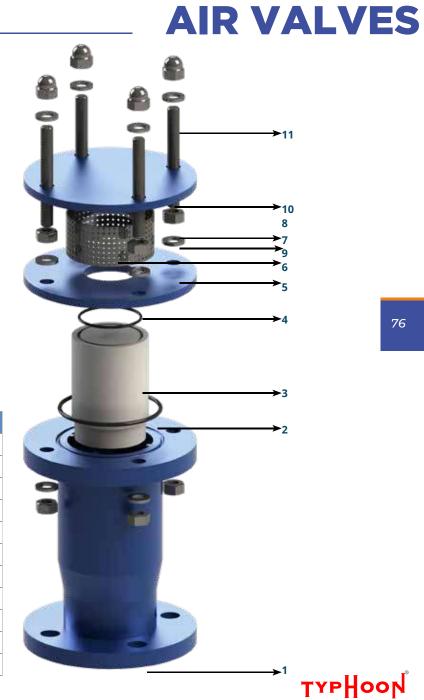


# ТльҢооҊ

	Size (inch	Size (inch-DN)			н		Weight
inch	DN	Connection	inch	mm	inch	mm	kg
2	50	Flanged	6,496	165	110,83	281,5	11
21/2	60	Flanged	7,283	185	11,122	282,5	12
3	80	Flanged	7,784	200	12,460	316,5	17
4	100	Flanged	8,661	220	13,327	338,5	20
6	150	Flanged	11,220	285	15,216	386,5	35
8	200	Flanged	13,386	340	15,216	386,5	46
10"	250	Flanged	17,52	445	26,97	685	120
12"	300	Flanged	20,55	522	23,23	590	190



#	Material Name	Type of Material
1	Valve Body	GGG40
2	O-Ring	NBR
3	Floater	Polyethylene
4	O-Ring	NBR
5	Bottom Flange	ST37
6	Filter	Stainless Steel
7	Washer	Stainless Steel
8	Nut	Stainless Steel
9	Top Flane	ST37
10	Stud Bolt	Stainless Steel
11	Capped Nut	Stainless Steel
1		



SINGLE CHAMBER KINETIC VACUUM

# SEWAGE AIR RELEASE VALVE



During the first start-up of the system, it allows the high amount of air in the pipeline to be quickly evacuated from the system. When the water reaches the waste water suction cup sphere, the double acting plastic suction cup float attached to the sphere lifts up and closes the outlet of the suction pad. Thus, due to the compressed air trapped inside, the waste water is closed before reaching the plastic suction cup. The sealing elements of the plastic suction pad continue to fulfill their function. During the withdrawal or evacuation of the water in the pipeline, the pressure in the line is lower than atmospheric pressure. This situation, called vacuum effect, causes collapse and cavitation damage in pipes. The float attached to the waste water suction sphere goes down and prevents this problem by providing air flow to the pipeline from outside. When the system is in service, that is, when the pipeline is under pressure, the low amount of air is dragged with water and collects in certain parts of the line. The accumulated compressed air is evacuated together with the water and the float connected to the sphere is partially opened. After evacuation, the float rises again and closes the suction cup outlet. Thanks to the design of the waste water suction cup, it can work smoothly in the sewer networks by preventing the problems of standard suction pads such as clogging and damage in waste water. It is long-lasting thanks to the fact that its existing parts are stainless and can be easily cleaned with the ball valve on it.

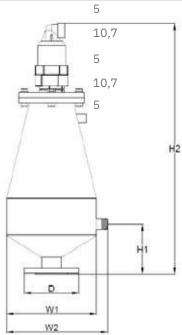
#### Order Information

Please provide the following information in order

Maximum mains / operating pressure	bar
Main pipeline diameter	mm
Valve connection type	

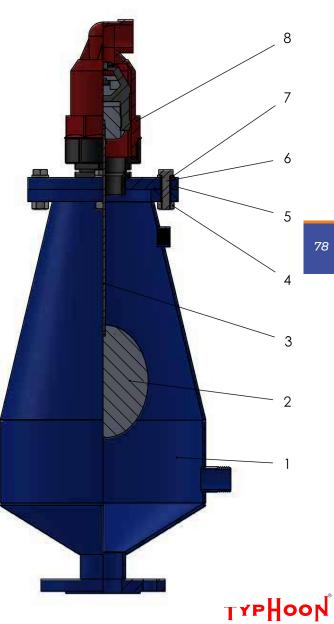
# SEWAGE **AIR RELEASE VALVE**

Size inch /	C	)	W	/1	W	2	Н	1	Н	2	We	ight
DN	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
DN50	6,50	165	10,7	273	12,0	306	5,94	151	30,04	763	45,41	20,60
DN80	7,87	200	5	273	5	306	5,94	151	30,04	763	47,61	21,60
DN100	8,66	220	10,7	273	12,0	306	5,94	151	30,04	763	48,94	22,20
DN150	11,22	285	5	273	5	306	5,94	151	30,04	763	56,22	25,50
DN200	13,39	340	10,7	273	12,0	306	5,94	151	30,04	763	61,73	28,00
			5		5							



12,0 5 12,0 5

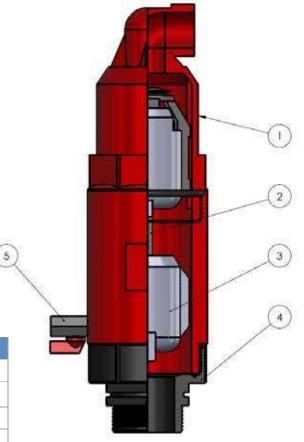
#	Material Name	Type of Material
1	Body	ST 37 Stainless
2	Sewage - Air Release Valve Globe	Steel Stainless
3	Shaft	Steel
4	Nut	8.8 Coated Steel
5	Cover	ST37
6	Bolt	8.8 Coated Steel
7 W	asher	8.8 Coated Steel
8	2" Double CHamber Air Valve	Plastic



# **PLASTIC SEWAGE AIR RELEASE VALVE**

Model	D (mm)		W (n	nm)	H (mm)	
	inch	mm	inch	mm	inch	mm
2" Combination (3 Functions)	2"	50	5,12	130	14,1	360
2" Automatic (2 Functions)	2"	50	5,12	130	7	250
1	1	1	1	1	9,84	1

#	Material Name	Type of Material
1	Plastic Combination / Automatic Air Release Valve	Plastic
2	Mil	Stainless Steel
3	Floater	Polypropylene
4	Cover	GRP
5	Mini Ball Valve	Galvanised



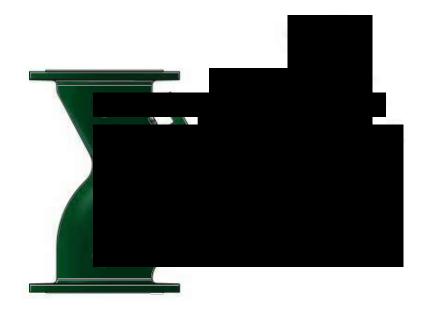
# ТүрӇоо҄



Y Type strainer is mounted in front of pump counter control valve and sensitive devices. The main function of the valve is to hold particles such as leaves, wood, chips, pebbles in the water. These partickles which can disrupt costly equipment are collected in the filter of the strainer. If the pressure diffrence between the inlet and outlet manometers is high, harmful particles can be discharged by opening the drain plug. Thanks to its Y-Type design, it has a large dirt holding capacity and low pressure loss

Nominal Size DN50 - 65 - 80 - 100 - 150 - 200 Nominal Pressure

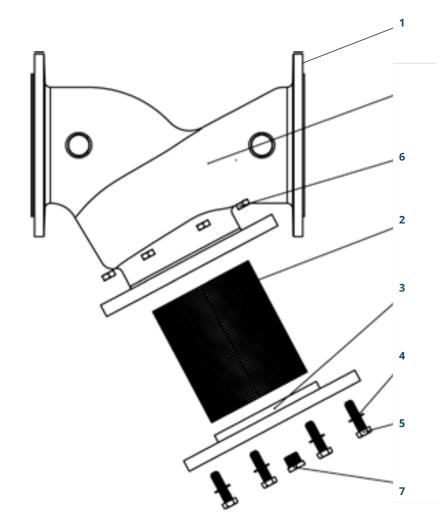
PN10 - 16 - 25





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# **STRAINER**



#	Material Name	Type of Material
1	Body	GGG40
2	Filter	AIS 302
3	Cover	GGG40
4	Washer	A2
5	Bolt	A2
6	Nut	A2
7	Blind cap	A2

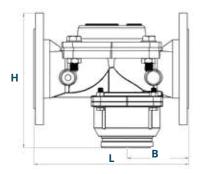


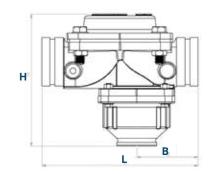
Back Flushing Control Valves are 3-way control valves that operate with line pressure or an external pneumatic pressure in filtration systems. The valve operates in the filtration and back flushing mode in coordination with the filter elements in the system. The diaphragm valve assembly of the valve works in two directions. The valve opens the evacuation path by changing the direction of the valve as it moves into the back flushing mode in the filtration mode. In this way, the cleanliness of the filter elements is best cleared by preventing contamination of clean water with dirty water in the system. **Order Information** 

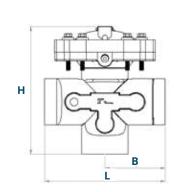
#### Please provide the following information in order

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

Medele	Н		В			L	Weight	
Models	inch	mm	inch	mm	inch	mm	lbs	kg
Victaulic 3x2	9,68	246	4,49	114	11,42	290	35,16	15,95
Victaulic 4x3	9,68	246	5,04	128	12,48	317	33,44	17,25
Flanged 3x2	9,68	246	4,49	114	11,42	290	57,64	22,45
Flanged 4x3	9,68	246	5,04	128	12,48	317	60,72	25,00
Victaulic-Threaded 2x2	7,48	190	3,54	90	7,08	180	83,6	3,80







# BACK FLUSHING CONTROL VALVES

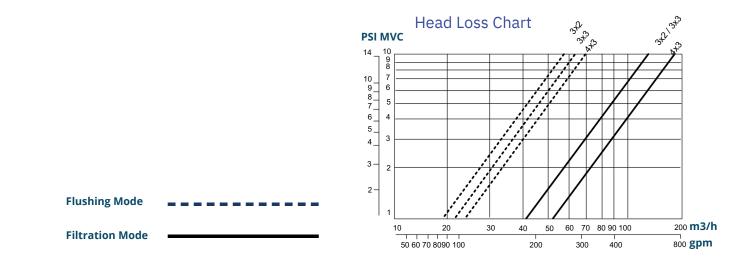




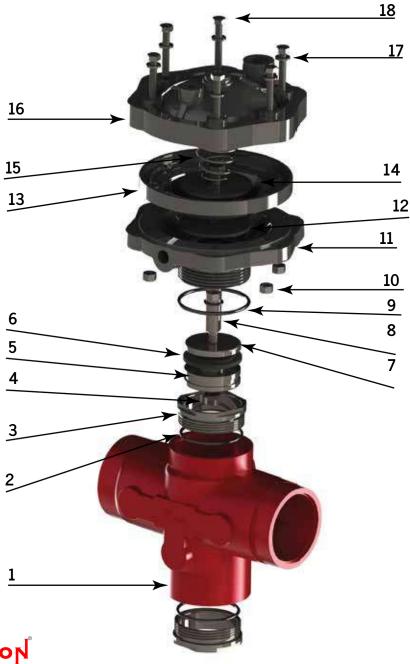
#### Hydraulic Performance

Model	57/58			
Size	3x2	4x3		
In filtration mode	m³/h	90	160	
recommended max. stream	gpm	400	705	
Back wash mode	m³/h	40	90	
Recommended Max. stream	gpm	180	400	
In filtration mode	Kv (metric)	130	160	
flow rate factor	Cv (US)	150	185	
Back rinse mode	Kv (metric)	58	70	
flow rate factor	Cv (US)	67	81	

Operating Pressure Range **Standard model:** 0.7 - 10 bar / 10 - 150 psi **High-Pressure Model:** 1 - 16 bar / 15 - 250 psi **Maximum operating temperature:** 60°C (140°F)



#	Material Name	Type of Material
1	Bolt Cover	8.8 Coated Steel
2	Diaphragm Wedge	GG25 - GGG40
3	Diaphragm Body	Brass
4	Nut Nut Disk	Natural Rubber
5	Rubber Washer (A)	GG25 - GGG40
6	Bottom Cover Bolt	8.8 Coated Steel
7	Nut Washer	8.8 Coated Steel
8	Washer Washer	HDPE
9	Shaft O-Ring	EPDM
10	O-Ring	HDPE
11	Material Adapter	GG25-GGG40
12	Rubber Container	8.8 Coated Steel
13	Washer (B) Nut	8.8 Coated Steel
14		Brass
15		Coated Steel
16		Coated Steel
17		Coated Steel
18		NBR
19		NBR
20		HDPE
21		Stainless Steel
22		Stainless Steel
23		8.8 Coated Steel
L	1	



#	Material Name	Type of Material
1	Body	GGG40
2	O-Ring	NBR
3	Bearings	Stainless Steel
4	Nut	8.8 Coated Steel
5	Bottom Dish	Stainless Steel
6	Rubber	EPDM
7	Top Dish	Stainless Steel
8	Shaft	Stainless Steel
9	O-Ring	NBR
10	Nut	8.8 Coated Steel
11	Bottom Cover	Glass Reinforced polyamide
12	O-Ring	NBR
13	Diaphragm	Natural Rubber
14	Diaphragm Discs	Stainless Steel
15	Coil	Stainless Steel
16	Cover	Glass Reinforced polyamide
17	Washer	8.8 Coated Steel
18	Bolt	8.8 Coated Steel

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## ТүрӇооЍ

#### Plastic

# BACK FLUSHING CONTROL VALVES



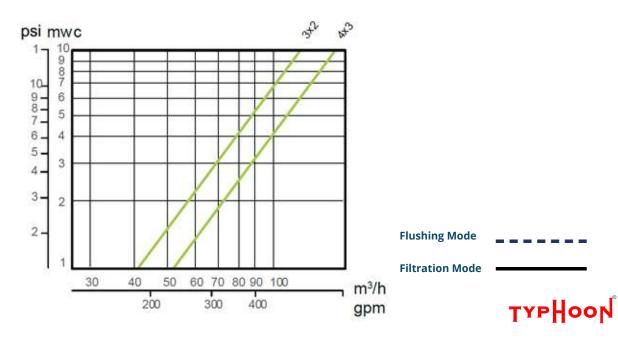
Back Flushing Control Valves are 3-way control valves that operate with line pressure or an external pneumatic pressure in filtration systems. The valve operates in the filtration and back flushing mode in coordination with the filter elements in the system. The diaphragm valve assembly of the valve works in two directions. The valve opens the evacuation path by changing the direction of the valve as it moves into the back flushing mode in the filtration mode. In this way, the cleanliness of the filter elements is best cleared by preventing contamination of clean water with dirty water in the system.

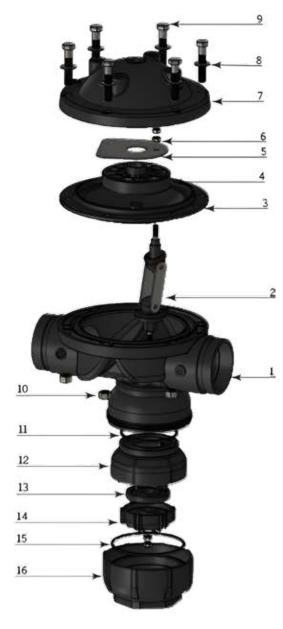
#### **Order Information**

Please provide the following information in order

Maximum flow rate m <sup>3</sup> /h
Maximum mains / operating pressure bar
Main pipeline diameter mm
Valve connection type

#### Head Loss Chart





Type of Material
Glass Reinforced polyamide
Stainless Steel
Natural Rubber
Glass Reinforced polyamide
Stainless Steel
8.8 Coated Steel
Glass Reinforced polyamide
8.8 Coated Steel
8.8 Coated Steel
8.8 Coated Steel
NBR
Glass Reinforced polyamide
EPDM
Glass Reinforced polyamide
NBR
Glass Reinforced polyamide

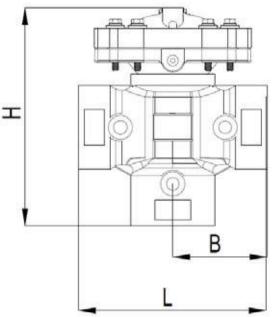
Plastic

## ТүрНооу

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ТльНооу

Madal	Н		В		l	L	Weight		
Model	inch	mm	inch	mm	inch	mm	lbs	kg	
2x2 Threaded	8,15	207	3,5	89	7	178	4,41	2	
2x2 Victaulic	8,15	207	5,04	128	10,07	256	4,63	2,1	



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	L

#### **Plastic**



Type of Material

GRP

NBR

HDPF EPDM

HDPE

NBR

NBR

Brass GRP

Stainless Steel

Stainless Steel

Stainless Steel

Naturel Rubber

Stainless Steel

Stainless Steel

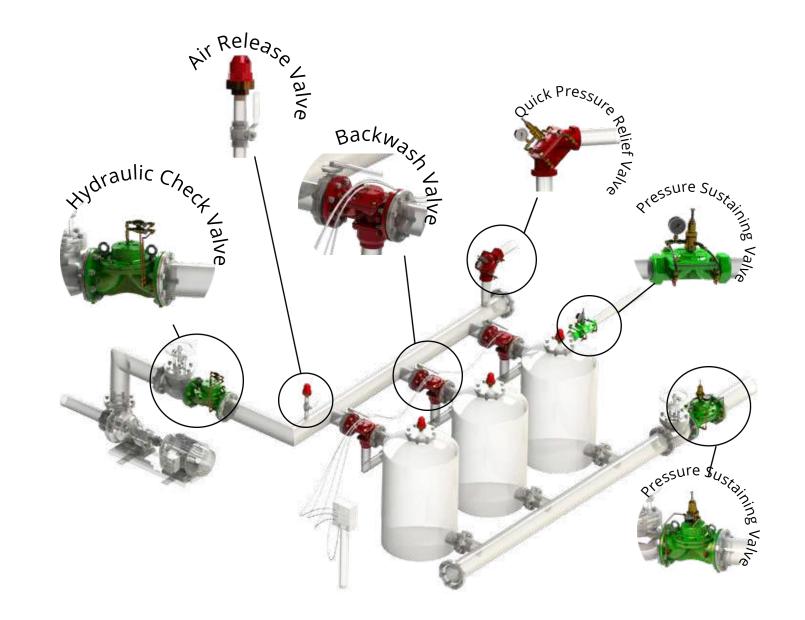
Stainless Steel

Stainless Steel

SST 302

GRP

#### **Application Example**



# ТльҢооң

#### AC Type - 1-2-3 Internal With DP

- Ideal for 1, 2 and 3 station filters
- Start reverse flushing with internal DP
- Can initiate reverse rinsing by DP or time
- Simple setpoint selection with DIP switches
- Manual operation capability
- 24VAC energy input



#### DC Type - 1-2-3 Internal With DP

- Ideal for 1, 2 and 3 station filters
- Start reverse flushing with internal DP
- Can initiate reverse rinsing by DP or time
- Simple setpoint selection with DIP switches
- Manual operation capability
- With 9VDC and 12VDC energy input

#### Pressure Differential Device (DP)

- Simple pressure adjustment with DIP switcher
- 12VDC and 24VAC connection models according to the power supply
- Ability to set differential pressure range up to 2 bars
- Ability to test sensor outputs
- Alarm capability with LED indicators





# ТльНооЦ

#### AC Type - 2/10 External Without DP

- Possibility to use up to 2-10 filter stations
- Easy programming thanks to the rotating switches on the panel
- 9-12VDC LATC. with energy input
- Washing cycle from 10 minutes to 24 hours
- Washing time from 10 seconds to 24 hours
- Waiting time between stations from 5 seconds to 40 seconds
- Ability to alarm in infinite loop problems
- Manual, only DP or DP with time adjustment capability

# DC Type - 2/10 External Without DP (2 Wiered)

- Possibility to use up to 2-10 filter stations
- Easy programming thanks to the rotary switches on the panel
- 9-12VDC LATC. Energized
- Wash cycle from 10 minutes to 24 hours
- Washing time from 10 seconds to 24 hours
- Stand-by time between 5 and 40 seconds
- Ability to alarm on infinite loop problems
- Manual, only DP or DP with time adjustment





TYPHOON

#### **Control Panels**

# BACK FLUSHING CONTROL VALVES



#	Material Name	Description
1	Protection Board	Plastic 24VAC input / 12VDC input latch
2	Control Panel	powered 24VAC input / 12VDC input latch
3	Pressure Differential Device	powered 1/4" / 1/4" hose connection
4	Nipple Adaptor	AC/DC powered, 1/8" female 1/8" male /
5	Solenoid Valve	8mm hose connection 1/8" male / 8mm
6	T Fitting	hose connection
7	Elbow Fitting	

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## ТльЮоЦал



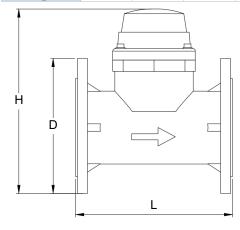


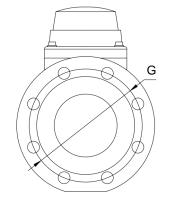
# AGRICULTURAL WOLTMAN TYPE WATER METER

- Eco-friendly, long-lasting counter
- Industrial use
- Use in agricultural fields
- Suitability for drinking water installations
- The body is GGG40 Ductile Iron Casting protected with electrostatic paint higher than 200 microns.
- MID approved and certified
- First-class materials and production technology
- Protective, durable body for outdoor and climatic conditions
- Wide and dynamic measuring range
- Accurate water flow measurement with very low pressure losses
- 2 years warranty

#### DN50-DN300 100lt - 1000lt With Pulse

Size	DN50	DN65	DN80	DN100 DN125 DN150			DN200	DN250	DN300
L	200	200	225	250	250	300	350	450	500
Н	250	260	284	296	324	354	401	459	511
D	165	185	200	220	250	285	340	405	460
G	125	145	160	180	210	240	295	355	410
nXM	4xM10	4xM10	8xM10	8xM10	8xM10	8xM10	12xM10	12xM10	12×M10
Weight (Kg)	10,7	11,8	13,3	18,5	22,4	26,8	38,2	55,8	69,0







# ТүрНооŃ

# AGRICULTURAL WOLTMAN TYPE WATER METER

#### **Technicial Specifications**

Nominal diameter	DN	mm	DN50	DN65	DN80 D	N100 DN:	125	DN150	DN200	DN250	DN300		
Nominal diameter	Size	inch	2"	21/2"	3"	4"	5"	6"	8"	10"	12"		
Maximum flow rate	Q4	Q4		≤78,8	≤125	≤200	≤313	≤500	≤788	≤1250	≤2000		
Continuous flow rate	Q3	}	≤63	≤63	≤100	≤160	≤250	≤400	≤630	≤1000	≤1600		
Pass flow	Q2	)	≥2,52	≥2,52	≥4,0	≥6,40	≥10	≥16,0	≥25,2	≥40,0	≥64,0		
Minimum flow rate	Q1	-	≥1,57	≥1,57	≥2,50	≥4,00	≥6,25	≥10,00	≥15,7	≥25,0	≥40,0		
Measuring range (R)	Q3 /	Q1					≤40						
Transition flow rate	Q2/	Q1					1,6						
Overload flow	Q4 /	Q3					1,25						
Accuracy class	-	-					±5%						
Acceptable error rate at low flow	(MPE	ΞĮ}					perature	30°C se : > 30°C se					
Acceptable error rate at high flow	(MPE	-,					T30 & T						
Temperature class	т			MAP16									
Water pressure class	-						ΔP 10	)					
Pressure loss class	Ba	Г	45.05					5.4.0					
Reading range	-		ΔP 25				Ĺ	AP 10					
Read device resolution	m3				999,99	9			,	9,999			
Flow profile precision class	ma	8			0,001				0,	01			
Connection style	-						U10D	5					
Horizontal length of the meter	-					H (Horizontal)							
0	mn	ſ	200	200	225	250	250	300	350	450	500		
magnetic switch power supply	Umax	ιx	x max 24V / 0,01A										
Magnetic switch K-Factor	impuls	e/L	0,001 & 0,0001										

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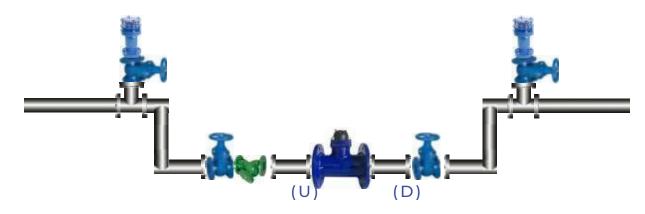
## ТүрНооу

# AGRICULTURAL WOLTMAN TYPE WATER METER

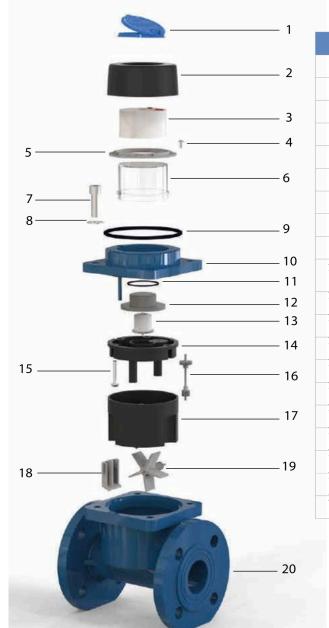
#### Assembly Table

Inlet Valve Pipe Diameter (mm)	Inlet Valve Diameter (mm)	Filter Diameter (mm)	Meter Inlet Pipe Diameter (mm)	Meter Inlet Pipe Length (U) 10xDN (mm)	Meter Diameter (mm)	Meter Outlet Pipe Diameter (mm)	Meter Inlet Pipe Length (D) 5xDN (mm)	Outlet Valve Diameter (mm)
50	50	50	50	500	50	50	250	50
65	65	65	65	650	65	65	325	65
80	80	80	80	800	80	80	400	80
100	100	100	100	1000	100	100	500	100
125	125	125	125	1250	125	125	325	125
150	150	150	150	1500	150	150	750	150
200	200	200	200	2000	200	200	1000	200
250	252	250	250	2500	250	250	1250	250
300	300	300	300	3000	300	300	1500	300

#### Counter Application Example for 50 -300 mm



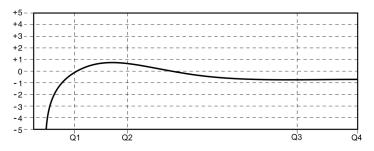
# AGRICULTURAL WOLTMAN TYPE WATER METER



	PARTS
1	Cover
2	Retaining Ring
3	Mechanism and Indicator
4	Pivot
5	Plate
6	Glass cover
7	Screw
8	Gasket
9	O-Ring
10	Flange Cover GGG40 Ductile Iron Casting
11	O-Ring-2
12	Gear Plate
13	Gear Wheel
14	Top Support
15	Screw
16	Mechanical Transmission
17	Sub-Support
18	Regulation Spindle
19	Propeller
20	Body GGG40 Ductile Iron Casting



#### Error Graph



#### TYPUON

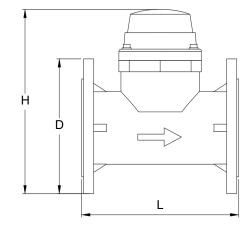
#### **AGRICULTURAL WOLTMAN TYPE**

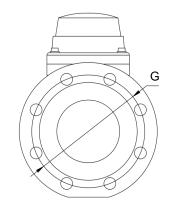
# WATER METER

- Eco-friendly, long-lasting counter .
- Industrial use
- Use in agricultural fields
- Suitability for drinking water installations
- Le corps est en polyamide de fibre de verre renforcé composite
- MID approved and certified
- First-class materials and production technology
- Protective, durable body for outdoor and climatic conditions
- Wide and dynamic measuring range
- Accurate water flow measurement with very low pressure losses 2 years warranty

#### DN50 ve DN65 10lt With Pulse DN80 ve DN100 100lt With Pulse

Size	DN50 D	N65 DN8	30 DN10	0
L	200	200	225	250
Н	250	260	284	296
D	165	185	200	220
G	125	145	160	180
nXM	4xM10	4xM10	8xM10	8xM10







#### **Plastic Body**

# AGRICULTURAL WOLTMAN TYPE WATER METER

#### **Technicial Specifications**

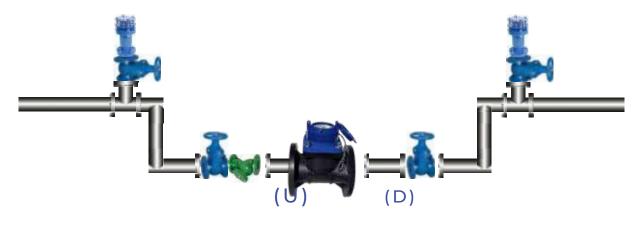
Nominal diameter	DN mm DN50 DN65 DN80 DN100										
	Size	inch	2"	21/2"	3"	4"					
Maximum flow rate	Q4	Ļ	≤78,8	≤78,8	≤125	≤200					
Continuous flow rate	Q3	}	≤63	≤63	≤100	≤160					
Pass flow	Q2	<u>)</u>	≥2,52	≥2,52	≥4,0	≥6,40					
Minimum flow rate	Q1	-	≥1,57	≥1,57	≥2,50	≥4,00					
Measuring range (R)	Q3 /	Q1					≤40				
Transition flow rate	Q2 /	01					1,6				
Overload flow	Q4 /	-					1,25				
Accuracy class	-	τ-					±5%				
Acceptable error rate at low flow	able error rate at low flow (MPEI		Water temperature 30°C se ± %2 Water temperature> 30°C se ± %3								
Acceptable error rate at high flow	(MPE	-			wat	•	T30 & T5		5 %3		
Temperature class		=0)						0			
Water pressure class	Т						MAP16				
Pressure loss class	Ba	r					ΔΡ 10				
Reading range	-		ΔP 25				ΔP	10			
Read device resolution	ma	3			999,999	9			9,999,	999	
	m3	3			0,001				0,0	1	
Flow profile precision class	-						U10D5				
Connection style	-					Н	H (Horizontal)				
Horizontal length of the meter	mn	n	200	200	225	250	250	300	350	450	500
magnetic switch power supply	Umax			200	223		< 24V / 0,		550	-50	500
Magnetic switch K-Factor	impuls						01 & 0,00				

# AGRICULTURAL WOLTMAN TYPE WATER METER

#### Assembly Table

Inlet Valve Pipe Diameter (mm)[		Filter Diameter (mm)	Meter Inlet Pipe Diameter (mm)	Meter Inlet Pipe Length (U) 10xDN (mm)	Meter Diameter (mm)	Meter Outlet Pipe Diameter (mm)	Meter Inlet Pipe Length (D) 5xDN (mm)	Outlet Valve Diameter (mm)
50	50	50	50	500	50	50	250	50
65	65	65	65	650	65	65	325	65
80	80	80	80	800	80	80	400	80
100	100	100	100	1000	100	100	500	100

Counter Application Example for 50 -100 mm



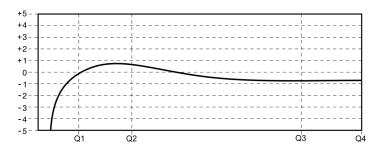
# AGRICULTURAL WOLTMAN TYPE WATER METER

# \_ 2 3 5 6 7. 8 9 10 - 11 12 13 14 15 -- 16 \_ 17 - 19 18 -

	PARTS
1	Cover Retaining Ring Mechanism and
2	Indicator Pivot Plate Glass cover Screw
3	Gasket
4	O-Ring
5	Flange Cover composite reinforced glass fiber polyamide
6	O-Ring-2 Gear Plate Gear Wheel Top Support
7	Screw Mechanical Transmission Sub-Support
8	Regulation Spindle Propeller
9	Body composite reinforced glass fiber
10	polyamide
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

# 

Error Graph



#### **Plastic Body**

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# QUICK COUPLERS



#### Description

It is speccially designed for projects that require rapid water access. Typhoon's Quick-Coupling are engineered to endure many years of daily use and designed for maximum reliability. On-off takes place with a quarter turn key cycle. It has a locked cover that prevents dirt from entering the valve

#### **Technical Specifications**

Thread type

• BSP Parallel Pipe thread -NPT

#### **Pressure Number**

- PN-
- 10
- PN-
- Size<sup>1</sup>56
- 3/4" & 1"

# ТльҢооу

# ACCESSORIES

Pressure Reducing Pilot



103 Drocou

Pressure Sustaining Pilot







Solenoid 3 Way 24V AC



Hydraulic Accelerator (Relay)



3 Way Mini Valve



1/4 Needle Valve Brass



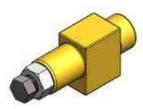
Finger Filter (Brass-Plastic)

1/4" Mini Check Valve Plastic





Brass Needle Valve

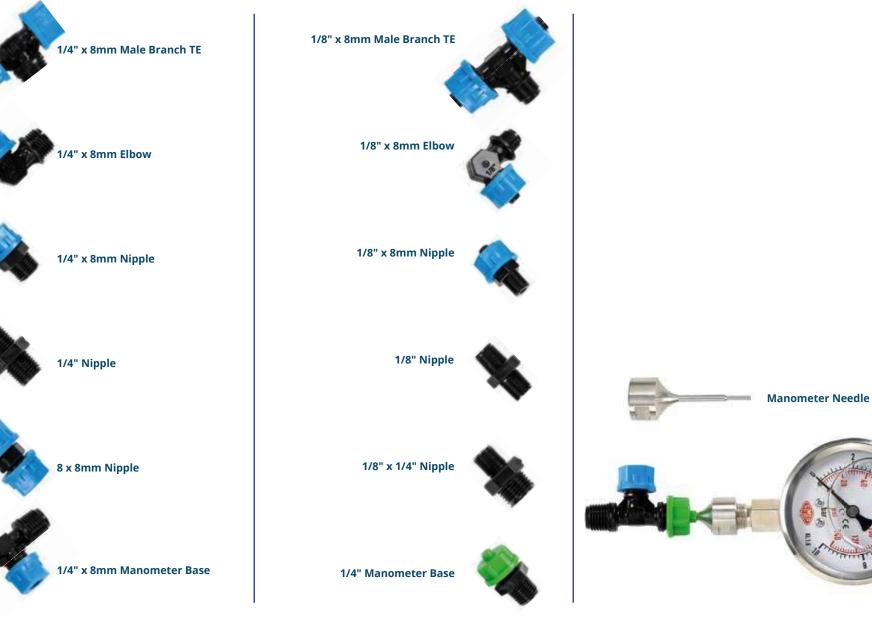


Plastic Needle Valve



# ТльҢооӋ

# **FITTINGS**



# **CERTIFICATES**

#### **CERTIFICATE CERTIFICATE OF CONFORMITY**

Manufacturer / Üretici TAYFUR SU SISTEMLERI MAKINE MÜHENDISLIK SANAYI VE TICARET ANONIM ŞİRKETİ Address / Adres KARACAUĞLAN MAHALLESİ 6172 SOKAK NO:19 A BORNOVA / İZMİR / TÜRKİYE

Product Description / Ürün Tanımı HYDRAULIC CONTROL VALVES / HÍDROLÍK KONTROL VANALARI Product Types / Ürün Tipleri

#### TYPHOON SERIES

105

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MANUAL HYDRAULIC CONTROL VALVE / PRESSURE REDUCING CONTROL VALVE MANULA HYDRAULIC CONTROL VALVE / PRESSURE REDUCING CONTROL VALVE PRESSURE REDUCING AND PRESSURE SURTAINING CONTROL VALVE PRESSURE SUSTAINING CONTROL VALVE / PRESSURE REDUCING AND SOLINOID CONTROL VALVE SOLIHODIO CONTROL VALVE / CURK SERLEG CONTROL VALVE / LOANT EVEL SUCHONIC CONTROL VALVE / DIFFERENTIAL FLOAT LEVEL CONTROL VALVE BLECTRIC FLOAT LEVEL CONTROL VALVE / DIFFERENTIAL FLOAT LEVEL CONTROL VALVE DIMP CONTROL VALVE / DEEP WILL INVELOP CONTROL VALVE / SURGE ANTICORTINOI VALVE HYDRAULIC CHECK VALVE / Y TYPE HYDRAULIC CONTROL VALVE

QUICK PRESSURE RELIEF CONTROL VALVE BACKFLUSHING CONTROL VALVES; VICTAULIC 3x2 -VICTAULIC 4x3 -FLANGE 3x2 – FLANGE 4x3- VICTAULIC & THREADED 2x2

BACKTUBHING CONTROL VALVES, VICTAULC 3-2, VICTAULC 4-3, FLANGE 3-2, FLANGE 4-3, VICTAU Product Fastures, PMID-PHILS-PM23 Banagkar / Pressures, PMID-PHILS-PM23 Comparison of the Control of the Control of the Control of the Control Comparison of the Control of the Control of the Control of the Control Control of the Control of the Control of the Control of the Control of the Control Research of the Control of the Control of the Control of the Control of the Control Banagy Control of the Control of Control of the Control of Control of the Control of Control of the Control of Control of the Control of Control of the Control of Control of the Control of Control of the Control of Control of the Control of Control of the Control of Co

Directives and Regulation / Directive Votentmeliker 2014/68/LVD Vessure Equipment Directive / 2014/68/LVD angle fabrigandira Directifi His base nacazegote but company that the pacificative requirements of the 2014/68/LVD ressure Equipment Directive have been fulfilled and its responsibility has been based for the product defined above. The product defined above have been checked by terman graduations control where the product of the product defined above. The product defined above have been checked by terman graduations control. Yukanda tanımlan verilmiş olan ürünlerin için 2014/68/EU Basınçli Elipmanlar Yönetmeliğinin uygulanabilen gerekliliklerinin yerine getirildiği ve sorumluğunun alımmış olduğul irma tanafından kabul edimiştir. Yukanda tanımları verilmiş olan ürünler, iç üretim kontrollerinin kuruluş tanafındar yapıdığı kontrol edimiştir. Üründe in ediğişilik olduğu takirdire bu beyan kabu edimeyeçek ve geçenliğin yürterektir.

#### CERTIFICATE NUMBER: IDS.CE.2024.19095.1 Certificate Date : 16.02.2024 Validity Date : 16.02.2025

International Documenting System Doo



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

KARACAOĞLAN MAHALLESİ 6172 SOKAK NO:19 A BORNOVA / İZMİR / TÜRKİYE Product Description / Ürün Tanımı FILTER BACKWASH CONTROL DEVICES / FILTRE TERS YIKAMA KONTROL CIHAZLARI Product Types / Ürün Tipleri AC Tip - 1-2-3 Dahili DP DC Tipi – 1-2-3 Dahili DP AC Tipi – 2-4-6 DP Haric

DC Tipi – 2-4-6 DP Hariç AC Tipi – 2/10 DP Haric DC Tipi – 2/10 DP Hariç (2 Kablolu) Basınc Fark Cihazı (DP) Product Brand / Ürünün Markası

#### FLUSHCON

Directives and Regulations / Direktif ve Yönetmelikler 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 60304-12018 If has been accepted by the company that the applicable requirements of the 2006/42/EC Machinery Safety Directine have been fulfilled and its reponsibility 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 here is a change in the product, this declaration will not be accepted and will loss its validity.

Yukarıda tanımları verilmiş olan ürünlerin için Makine Emniyet Direktifinin uygulanabilen gerekliliklerinin yerine getirildiği 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.

#### CERTIFICATE NUMBER: IDS.CE.2024.19094.1

Certificate Date : 16.02.2024 Validity Date : 16.02.2025



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Vladimir Vučić SEKULIC

Authorised by



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