ARMAŞ®

SMART SOLUTIONS
FOR WATER AND FIRE

Product Brochure

Waterworks • Fire Protection • Irrigation • Filtration

SMART SOLUTIONS

FOR WATER AND FIRE

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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COMPANY PROFILE

ARMAŞ was founded in 1998 to produce valves for potable water, fire fighting and agricultural irrigation systems. It has become one of the leader establishments of its sector in a short time thanks to ARMAŞ makes valves.

ARMAŞ has given high quality services with economical prices to his costumers in industry, potable water networks and agricultural irrigation systems by means of Hydraulic Control Valves, Fire Valves, Automatic Filtration Systems, Gate Valves, Strainers, Check Valves, Air Valves and Hydrants he produced. Our company who does not sacrifice quality in production has used TS EN ISO 9001 Quality Management System since 2000. In the scope of importance we gave for both human and environment, we have developed our institutional structure day by day with TS EN ISO 14001 Environmental Management System Certificate and TS EN ISO 45001 Occupational Healthy and Safety Certificate since 2007. With the TSE, TSEK, CE, UL certificates obtained from national and international product certification authorities, our customer's trust in the brand and products of ARMAŞ has been further increased.

Our products have been subjected to pressure and performance tests before sales by Quality Control Department and technical support services have been given at the installation, operation and maintenance stages after sales by our experienced engineers.

Our company who have continued R&D investments in order to present more quality and reliable products to his costumers, will continue its costumer-satisfaction focused services with increasing achievements in future thanks to his dynamic staff, powerful brand and permanent developing structure.

ARMAŞ

TSE CE TSEK PG ISO 9001 CERTIFIED UL WRAS Turkey Discover the potential

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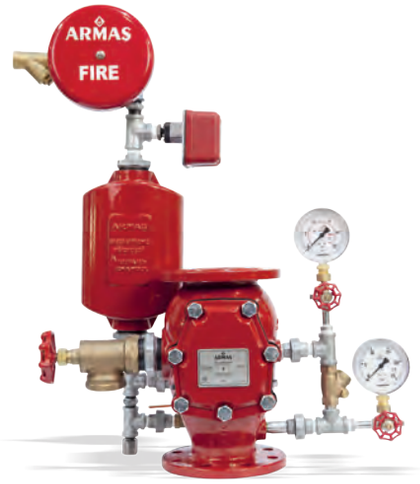


ALARM CHECK VALVES - UL LISTED

Armaş FCV Alarm Check Valve is designed for wet applications where the water has no the danger of frost. The pressurized water which is inside of the pipe-line is discharged by sprinklers because of fire situation. When the discharged pressurized water system is supporting continuously, retard chamber is being full. Then, the pressure switch on the retard chamber is actuated. The pressure switch sends alarm information to fire warning system or the automation system. After the pressure switch is actuated, the water is delivered to the gong and releases a mechanical alarm.

Body	:	Ductile Iron (GGG50)
Available Sizes	:	2½" (65 mm) - 8" (200 mm)
Available Connection Types	:	Flanged (ISO - ANSI)
Available Pressure Norms	:	300 PSI
Max. Operation Temperature	:	80 °C

*__UL__ listed sizes: 4", 6" ve 8"

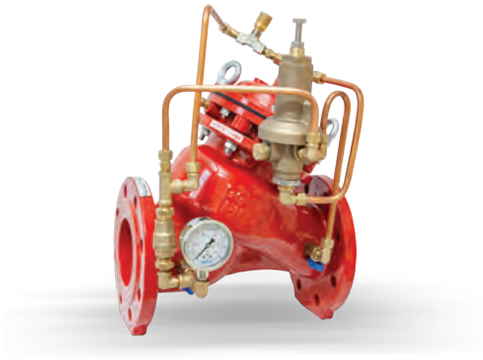
c UL us LISTED CE TSE

TEST & DRAIN VALVES - UL LISTED

Armaş Test and Drain Valve is a type of ball valve used in fire systems, especially for testing whether the system is working or not. It is installed on the system from the fire alarm valves to the sprinkler installation in the required zones.

Body	:	Brass (Ms58)
Available Sizes	:	1", 1¼", 1½", 2"
Ball	:	Brass (Ms58) - Chrome Plated
K-Factor	:	5.6 - 8.0
Available Connection Types	:	Threaded (BSP - NPT)
Max. Operation Pressure	:	300 PSI
Max. Operation Temperature	:	80 °C

c UL us LISTED TSEK



PRESSURE RELIEF VALVES - UL LISTED

UL Listed Armaş "87-UL-QR" model Fire Pump Relief 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 fire pumps put into/ out of service frequently in water network elevation lines.

Body	:	Ductile Iron (GGG50)
Available Sizes	:	2" (50 mm) - 6" (150 mm)
Available Connection Types	:	Flanged (ISO - ANSI)
Max. Operation Pressure	:	240 PSI
Max. Operation Temperature	:	80 °C

UL LISTED TSEK

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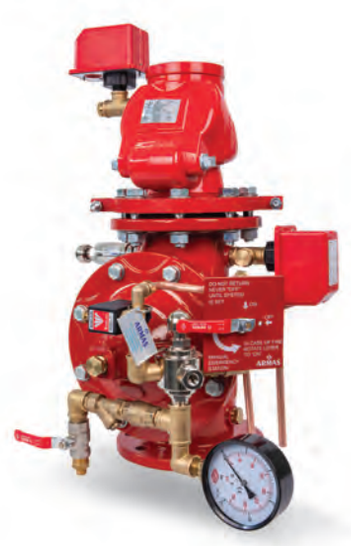
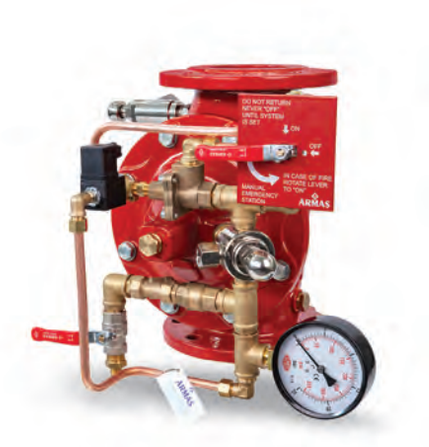


TSEK

PRE-ACTION VALVES

Armaş electrically activated and pneumatically activated, double interlock pre-action valves, designed for fire protection systems. The pre-action valve, actuated by the pressure of pipeline. Armaş Pre-Action Valve admits water into the sprinkler piping only when electric detecting device and a sprinkler have both been activated. The valve must be manually or remotely reset after automatic actuation. An emergency release valve is standard.

Body	:	Ductile Iron (GGG50)
Available Sizes	:	2" (50 mm) - 8" (200 mm)
Available Connection Types	:	Flanged (ISO - ANSI)
Max. Operation Pressure	:	300 PSI
Max. Operation Temperature	:	80 °C

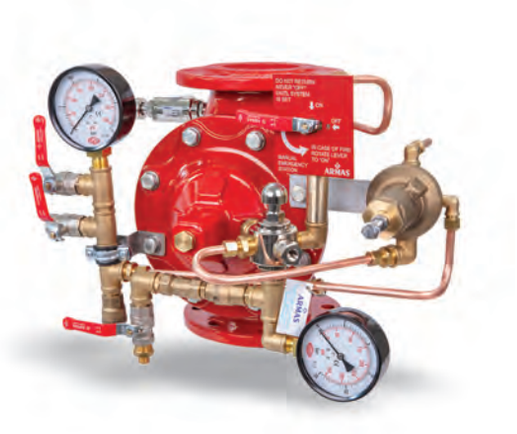


TSEK

DELUGE VALVE - ELECTRICALLY ACTIVATED

Armaş electrically activated deluge valve, designed for fire protection systems. The deluge valve, actuated by the pressure of pipeline. Armaş electrically controlled deluge valve is activated by a 3-way solenoid valve which actuates a latching relay valve to open the main valve. The valve must be manually or remotely reset after automatic actuation. An emergency release valve is standard.

Body	:	Ductile Iron (GGG50)
Available Sizes	:	2" (50 mm) - 8" (200 mm)
Available Connection Types	:	Flanged (ISO - ANSI)
Max. Operation Pressure	:	300 PSI
Max. Operation Temperature	:	80 °C



TSEK

DELUGE VALVE - PNEUMATICALLY ACTIVATED

Armaş pneumatically activated deluge valve, designed for fire protection systems. The deluge valve, actuated by the pressure of pipeline. Armaş pneumatically controlled deluge valve is activated by a pneumatic relay valve which latches the main valve to open until manually reset. The valve must be manually or remotely reset after automatic actuation. An emergency release valve is standard.

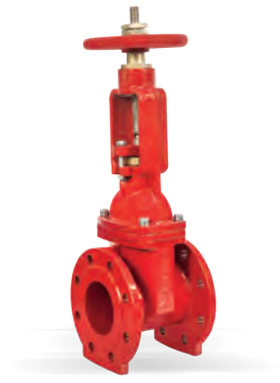
Body	:	Ductile Iron (GGG50)
Available Sizes	:	2" (50 mm) - 8" (200 mm)
Available Connection Types	:	Flanged (ISO - ANSI)
Max. Operation Pressure	:	300 PSI
Max. Operation Temperature	:	80 °C

BUTTERFLY VALVE WITH SUPERVISORY SWITCH

It is a butterfly valve with supervisory switch for separating zones and operates such as a control valve on fire fighting systems. Monitoring is available with this valve and for positioning, it is provided handwheel on the rod connects with the gear box.

Body	: Ductile Iron (GGG50)
Available Sizes	: 2" (50 mm) - 8" (200 mm)
Available Connection Type	: Wafer
Max. Operation Pressure	: 300 psi - 21 bar
Max. Operation Temperature	: 80 °C
Disc	: EPDM Covered Ductile Iron (GGG50)
Stem	: Stainless Steel
Gear Box	: Epoxy Coated Ductile Iron (GGG50)

TSEK



OS&Y GATE VALVES

e which is able to follow the opening/closing own movement, is able to follow electronically ing key, and full open position does not disrupt

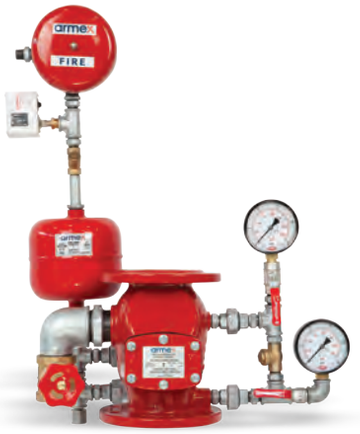
Body	: Ductile Iron (GGG50)
Available Sizes	: 2" (50 mm) - 8" (200 mm)
Available Connection Type	: Flanged (ISO - ANSI)
Max. Operation Pressure	: 300 psi - 21 bar
Max. Operation Temperature	: 80 °C
Disc	: EPDM Covered Ductile Iron (GGG50)
Stem	: Stainless Steel

TSE

CHECK VALVE - SWING TYPE

Swing check valve permits that water passes toward flow direction and prevents water flow in counter direction. It is manufactured in such a way that it will be closed by its own weight or by a weight mechanism. It is used in especially pumping plants to prevent back flow in case pump becomes out of service.

Body	: Cast Iron (GG25)
Available Sizes	: 2" (50 mm) - 8" (200 mm)
Available Connection Type	: Flanged (ISO-ANSI)
Max. Operation Pressure	: 240 psi - 16 bar



ARMEX ALARM CHECK VALVES

Armex Alarm Check Valve is designed for wet applications where the water has no the danger of frost. The pressurized water which is inside of the pipe-line is discharged by sprinklers because of fire situation. When the discharged pressurized water system is supporting continuously, retard chamber is being full. Then, the pressure switch on the retard chamber is actuated. The pressure switch sends alarm information to fire warning system or the automation system. After the pressure switch is actuated, the water is delivered to the gong and releases a mechanical alarm.

Body	: Ductile Iron (GGG50)
Available Sizes	: 2½" (65 mm) - 8" (200 mm)
Available Connection Types	: Flanged (ISO - ANSI)
Available Pressure Norms	: 300 PSI
Max. Operation Temperature	: 80 °C

TSE

OVERGROUND FIRE HYDRANT

Armaş Overground Fire Hydrants are designed and manufactured according to EN 14384 standards and provide water to fire brigade crew at possible fire moment to treat rapidly. The hydrants are used in supplying water for fire brigade in factories, warehouses, industrial plants, around the buildings, fire sensitive forestlands and residential areas.

Body	: Cast Iron (GG25)
Available Sizes	: 3" (80 mm) - 4" (100 mm)
Length	: 145 cm or 175 cm
Available Connection Type	: Flanged (ISO)
Max. Operation Pressure	: 240 psi - 16 bar

TSE

UNDERGROUND FIRE HYDRANT

It is the hydrant of which watering outlets are under ground and cover ison the ground. It consists of stem which controls hydrant valve, spring check valve which makes automatic discharge service, cast pieces forming main body and hose connecting bonets. Opening-closing process is achieved by controlling stem with the help of hydrant key. Spring check valve on body discharges water within hydrant when it is not used and prevents freezing in cold weather.

Body	: Cast Iron (GG25)
Available Sizes	: 3" (80 mm)
Available Connection Type	: Flanged (ISO)
Max. Operation Pressure	: 240 psi - 16 bar

MODEL **87** (PN16 - PN25)

MODEL **88** (PN40)

TSEK

800 SERIES

Armaş 800 series automatic hydraulic control valves are designed in the "Y" body model type so as to show maximum resistance to cavitation under minimum head loss in high flow rates. Armaş 800 series automatic hydraulic control valves are double-chamber diaphragm actuated and disc closed type. Valve has a standard double control chamber.

Body	:	Ductile Iron (GGG50)
Available Sizes	:	1½" (40 mm) - 16" (400 mm)
Available Connection Types	:	Flanged (ISO - ANSI)
Available Pressure Norms	:	PN16 - PN25 - PN40
Max. Operation Temperature	:	80 °C

MODEL **77**

TSEK

700 SERIES

Armaş 700 series automatic hydraulic control valves are designed in the "Globe" body model type so as to show maximum resistance to cavitation under low head loss in high flow rates. Armaş 700 series automatic hydraulic control valves are single-chamber diaphragm actuated and disc closed type. Armaş 700 Series provide lower-pressure operation due to its special diaphragm than other control valves.

Body	:	Ductile Iron (GGG50)
Available Sizes	:	1½" (40 mm) - 8" (200 mm)
Available Connection Types	:	Flanged (ISO - ANSI)
Available Pressure Norms	:	PN16 - PN25
Max. Operation Temperature	:	80 °C

MODEL **67**

TSEK

600 SERIES

Armaş 600 series valves are the direct diaphragm closing automatic hydraulic control valves which work with line pressure. It ensures easy and smooth flow with minimum pressure losses thanks to excellent design of valve body and diaphragm.

Body	:	Ductile Iron (GGG40) - Cast Iron (GG25)
Available Sizes	:	1½" (40 mm) - 12" (300 mm)
Available Connection Types	:	Threaded, Flanged, Grooved End
Available Pressure Norms	:	PN10 - PN16 - PN25
Max. Operation Temperature	:	80 °C

MODEL **66**

MODEL **64**

MODEL **63**

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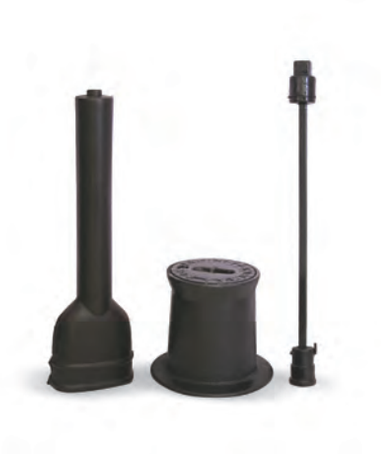
CONTROL FUNCTIONS

	Code	Description	800	700	600	500
ON/OFF	M	Manual Control Valve	•	•	•	•
	EL	Solenoid Control Valve	•	•	•	•
	EL/C-3W	Electric Control Valve With Control Device				•
	RC	Remote Control Valve	•	•	•	
	EC	Electronically Controlled Valve	•	•	•	
	IRI	Smart Control Valve			•	•
PRESSURE CONTROL	PR	Pressure Reducing Valve	•	•	•	•
	PR(3W)	Pressure Reducing Valve (3 Way Pilot)	•	•	•	
	PRD	Proportional Pressure Reducing Valve	•			
	PREL	Solenoid Controlled Pressure Reducing	•	•	•	•
	PS	Pressure Sustaining Valve	•	•	•	•
	DIF	Differential Pressure Sustaining Valve	•	•	•	
	PRPS	Pressure Reducing And Sustaining Valve	•	•	•	•
SAFETY	QR	Quick Pressure Relief Valve	•	•	•	•
	SA	Surge Anticipating Valve	•	•	•	
	HCV	Hydraulic Check Valve	•	•	•	
	NSC	Non-Slam Check Valve	•			
	PC	Pump Control Valve	•	•	•	
	DPC	Deep Well Pump Control Valve	•	•	•	
	TSO	Two Stage Open Hydraulic Control Valve	•	•	•	
LEVEL CONTROL	ALT	Altitude Control Valve	•	•	•	
	ALT-B	Bi-Level Altitude Control Valve	•	•	•	
	FL	Modulating Type Float Level Control Valve	•	•	•	•
	FLEL	Electric Float Level Control Valve	•	•	•	•
	DIFL	Differential Float Level Control Valve	•	•	•	
FLOW CONTROL	FR	Flow Rate Control Valve	•	•	•	•
	FRPR	Pressure Reducing And Flow Rate Control Valve	•	•	•	
	FE	Excessive Flow Shut-Off Valve	•	•	•	

RESILIENT SEATED GATE VALVE

Valve is closed or opened by moving wedge upward or downward via threaded stem mounted in the body. Wedge is rubber coated and it is not used as a check valve and flow rate adjustments.

Body	: Ductile Iron (GGG50)
Available Sizes	: 2" (50 mm) - 12" (300 mm)
Available Connection Type	: Flanged (ISO - ANSI)
Available Pressure Norms	: PN16 - PN25
Max. Operation Temperature	: 80 °C
Disc	: EPDM Covered Ductile Iron (GGG50)
Stem	: Stainless Steel



SURFACE BOX

Armas Surface Box is used for the valves which are installed to underground to shut off or open. It provides easy operation with low cost.

Surface Box	: Cast Iron (GG25)
Valve Key	: Cast Iron (GG25) + St 37
Valve Key Cover	: PVC
Available Sizes	: 2" (50 mm) - 12" (300 mm)

CHECK VALVES

Swing check valve permits that water passes toward flow direction and prevents water flow in counter direction. It is manufactured in such a way that it will be closed by its own weight or by a weight mechanism. It is used in especially pumping plants to prevent back flow in case pump becomes out of service. It may be used in hot and cold water plants and with each kind of acid free gases and liquids.

Body	: Cast Iron (GG25)
Available Sizes	: 2" (50 mm) - 8" (200 mm)
Available Connection Type	: Flanged (ISO - ANSI)
Available Pressure Norms	: PN16 - PN25
Max. Operation Temperature	: 80 °C

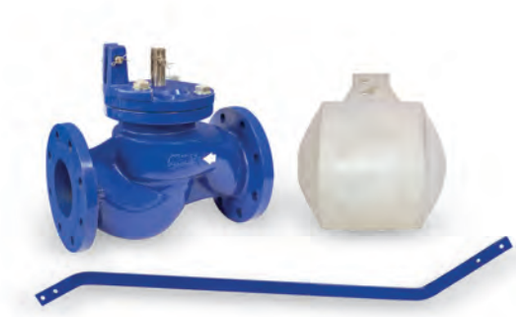
Y Type

T Type

STRAINERS

Strainer is the installation equipment which separates dirt, sediments and various foreign substances which may exist in the fluid (cold water, hot water, superheated water and steam) physically thanks to its filter and prevent them to damage other equipment in installation.

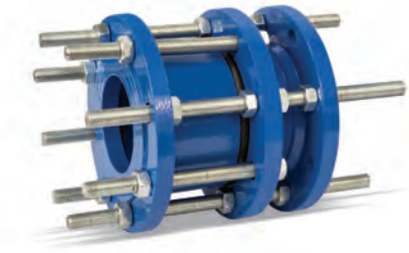
Body	: Ductile Iron (GGG50)
Available Sizes	: 2" (50 mm) - 16" (400 mm)
Available Connection Type	: Flanged (ISO - ANSI)
Available Pressure Norms	: PN16
Max. Operation Temperature	: 80 °C
Filter	: Stainless Steel



FLOAT VALVE

Float valves are made from cast iron and of flanged type. Articulated lever connected to valve stem achieves opening or closing process by means of float. It is used for that water level will not decrease under desired level.

Body	: Cast Iron (GG25)
Available Sizes	: 2" (50 mm) - 6" (150 mm)
Available Connection Type	: Flanged (ISO - ANSI)
Operation Pressure Range	: 0.3 bar - 5.5 bar
Max. Operation Temperature	: 80 °C



DISMANTLING JOINT

Dismantling piece is one of the components which ensure easiness in mounting and dismantling valves. During mounting and dismantling, necessary working space is created by shortening length of dismantling piece. Dismantling piece should be applied depending on specified L length and flow direction.

Body	: Ductile Iron (GGG50)
Available Sizes	: 4" (100 mm) - 20" (500 mm)
Available Connection Type	: Flanged (ISO)
Available Pressure Norms	: 16 bar
Max. Operation Temperature	: 80 °C

AAV4

AAV3

AAV - AIR COMBINATION VALVES

Armaş AAV Series Automatic Air Release Valves are the valves that operate with line pressure. Armaş AAV Series Automatic Air Release Valves are the air valves that provide the venting of the air during filling and preventing of vacuum by taking air into the installation during emptying, releasing of the air that accumulates in the installation during active operation with the help of pressure and that operates in automatic manner.

Body	: Ductile Iron (GGG50)
Available Sizes	: 2" (50 mm) - 8" (200 mm)
AAV3	: Triple Function
AAV4	: Quadruple Function (Surge Arrester)
Available Connection Type	: Flanged (ISO - ANSI)
Available Pressure Norms	: PN16 - PN25
Max. Operation Temperature	: 80 °C

Single Orifice

Double Orifice

AIR RELEASE VALVES

Single & Double Air Valves ensure that air in the pipe will be automatically evacuated when pipeline is filled with water. Air is evacuated quickly so that water will not make back pressure and affect flow negatively.

Body	: Cast Iron (GG25)
Available Sizes	: 2" (50 mm) - 8" (200 mm)
Available Connection Type	: Flanged (ISO - ANSI)
Available Pressure Norms	: PN16
Max. Operation Temperature	: 80 °C

Kinetic

Automatic

PLASTIC AIR VALVES

Armaş Plastic Air Valves are designed for an efficient discharge of large air volumes from small water network systems, filters, containers, and other devices where trapped air may impair the system's operation. The valve is appropriate for: Expelling the air at high flow velocity during the initial filling of the systems.

Body	: Polyamide
Available Sizes	: ½"- ¾"- 1"- 2"
Available Connection Type	: Threaded (BSP - NPT)
Max. Operation Pressure	: 10 Bar - 145 PSI

MODEL **67**

600 SERIES

Armaş 600 series valves are the direct diaphragm closing automatic hydraulic control valves which work with line pressure. It ensures easy and smooth flow with minimum pressure losses thanks to excellent design of valve body and diaphragm.

Body	:	Ductile Iron (GGG40) - Cast Iron (GG25)
Available Sizes	:	1½" (40 mm) - 6" (150 mm)
Available Connection Types	:	Threaded, Flanged, Grooved End
Available Pressure Norms	:	PN10

TSEK

MODEL **66**

MODEL **64**

MODEL **63**

MODEL **57**

(4")

MODEL **55**

(4")

(1½"-3")

TSEK

500 SERIES

Armaş 500 series valves are direct diaphragm closing automatic hydraulic control valves which work with line pressure. They ensure easy and smooth flow with minimum pressure losses thanks to excellent design of valve body and diaphragm.

Body	:	Polyamide
Available Sizes	:	1½" (40 mm) - 4" (100 mm)
Available Connection Types	:	Threaded (BSP - NPT), Flanged
Max. Operation Pressure	:	10 Bar - 145 PSI

MODEL **38**

BACK FLUSHING VALVES

Backflushing control valves are the 3-way control valves which are operated by line pressure or an external pneumatic pressure. Valve works in filtration and back flushing mode as coordinated with filter elements in the system.

Body	:	Ductile Iron (GGG40)
Available Sizes	:	2" (50 mm) - 4" (100 mm)
Available Connection Types	:	Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	:	10 Bar - 145 PSI

MODEL **21**

MODEL **27**

MODEL **28**

MODEL **37**

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VE Series

Electric Activated
2" - 4"

VH Series

Hydraulic Operated
2" - 4"

AUTOFLUSH® AUTOMATIC SCREEN FILTERS

AutoFlush® Automatic Screen Filter is the ideal solution for agricultural and municipal filtration due to its large filtration area, reliable operation mechanism and simple structure. AutoFlush® Automatic Screen Filter works on differential pressure and cleans itself automatically without any external intervention. AutoFlush® Automatic Screen Filter has electronically activated models besides hydraulically controlled models. Due to suction nozzles, cleaning is achieved with little water consumption. Besides the standart 130 micron filter size, different screen sizes are available for different dirt levels.

Body	: Polyester Coated Carbon Steel
Available Sizes	: 2" (50 mm) - 10" (250mm)
Flow Capacities	: 25 m^3/h - 400 m^3/h
Available Connection Type	: Flanged (ISO - ANSI)
Max. Operation Pressure	: 8 bar (116 PSI)
Min. Operation Pressure	: 2.5 bar (36 PSI)
Filtration Degree	: 130 micron (120 mesh)

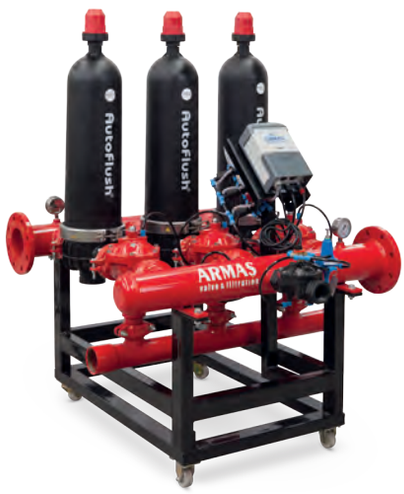
HE Series

Electric Activated
4" - 10"

HH Series

Hydraulic Operated
4" - 10"

1 BAR BACK FLUSHING PRESSURE



ADF SERIES

AUTOFLUSH® AUTOMATIC DISC FILTER SYSTEMS

Back flushing control valves adjusting filtration and back flushing positions of AutoFlush® automatic disc filters connected parallel to the manifold collector system are programmed by differential pressure sensor (DP) for pressure and by control device for time-dependent parameters.

Disc Filter Body	: Polyamide
Flow Capacities	: 50 m^3/h - 200 m^3/h
Available Connection Type	: Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)
Min. Operation Pressure	: 1 bar (14.5 PSI)
Filtration Degree	: **100 micron** **130 micron** **200 micron**

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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AUTOFLUSH® AUTOMATIC DISC FILTERS

1 BAR BACK FLUSHING PRESSURE

Registered by European Patent Office

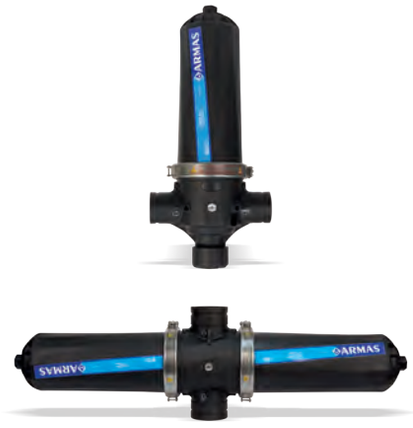
AutoFlush® Fully Automated Plastic Disc Filter is constructed by assembling many tiny synthetic disc manufactured from polypropylene material on filter body with telescopic structure. It is designed to perform a deep filtration based on desired micron level found on both sides of synthetic discs and inter-sectioning of channels designed in crosswise manner. A class patent was registered by European Patent Institute because of back-flushing pressure is 1 bar.

Body	: Polyamide
Available Sizes	: 3" (80 mm)
Available Connection Type	: Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)
Min. Operation Pressure	: 1 bar (14.5 PSI)

Filtration Degree :

100 micron **130 micron** **200 micron**

MANUAL DISC-SCREEN FILTERS



Armaş Disc Filters are designed to ensure deep filtration as a consequence of one-on-one order of many disc sheets manufactured from nylon reinforced polypropylene material on a filter body. Having a simpler design Relative to different filter groups, Armaş Screen Filters are successful in filtration of water well and water resources containing sand.

Body	: Polyamide
Available Sizes	: 2" (50 mm) - 4" (100mm)
Available Connection Type	: Threaded (BSP - NPT), Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)
Filtration Degree	: 130 micron (120 mesh)

MINI DISC-SCREEN FILTERS

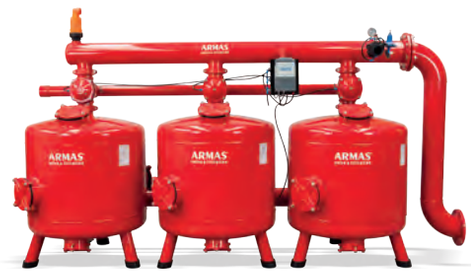
Armaş Mini Disc-Screen Filters are designed to ensure deep filtration for lower flow manufactured in high quality plastic, which ensures easy handling, high resistance and durability.

Body	: Polyamide
Available Sizes	: ¾"- 1"- 1¼"- 1½"- 2"
Available Connection Type	: Threaded (BSP - NPT)
Max. Operation Pressure	: 8 bar (116 PSI)
Filtration Degree	: 130 micron (120 mesh)

GRAVEL (SAND-MEDIA) FILTERS

Gravel filters are designed to be used in filtration of river, lake, pool water and water resources containing organic materials such as lichen and alga is over 15 m³/h implicating that they are rapid filters. The outstanding advantage of the gravel filters against other types of filters is about maximum filtration efficiency due to deep filtration. Armaş Gravel Filters are designed to provide ease of use, maximum filtration efficiency and less maintenance due to simple structure and thus, they are offered to the users.

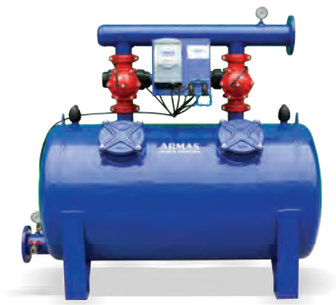
Body	: Polyester Coated Carbon Steel
Available In / Out Sizes	: 2" (50 mm) - 4" (100mm)
Available Tank Sizes	: 20" (500 mm) - 48" (1200 mm)
Available Connection Type	: Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)
Sand	: Basalt or Quartz



GRAVEL (SAND-MEDIA) FILTER SYSTEMS

Armaş A10 series Gravel Filters are projected to operate single or modular and manual or fully automatic back flushing procedure based on the water flow rate to be filtered within scope of the field of use. In order to increase filtration efficiency of gravel filters, it is recommended that modular filter system is selected from a model operating automatic back flushing procedure.

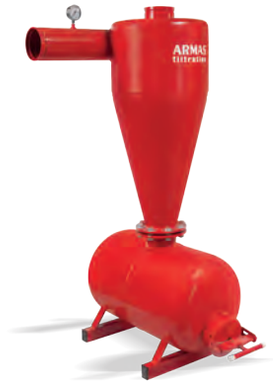
Body	: Polyester Coated Carbon Steel
Available Flow Capacities	: 24 m^3/h - 576 m^3/h
System Connection Type	: Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)
Sand	: Basalt or Quartz



DOUBLE CHAMBER GRAVEL (MEDIA) FILTERS

Filtration rates of gravel filters designed to be used in filtration of river, lake, pool water and water resources containing organic materials such as lichen and alga is over 15 m/h implicating that they are rapid filters. The outstanding advantage of the gravel filters against other types of filters is about maximum filtration efficiency due to deep filtration. Armaş DGF series Double Chamber Gravel Filters are designed to provide ease of use, maximum filtration efficiency and less maintenance due to simple structure and thus, they are offered to the users.

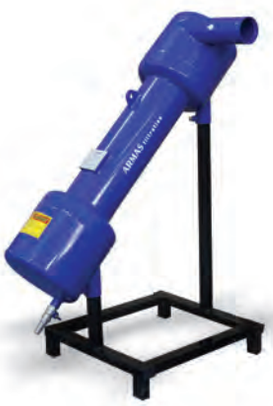
Body	: Polyester Coated Carbon Steel
Available In / Out Sizes	: 2" (50 mm) - 6" (150mm)
Available Tank Sizes	: 20" (500 mm) - 48" (1200 mm)
Available Connection Type	: Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)
Sand	: Basalt or Quartz



HYDROCYCLONE (SAND SEPARATOR)

Armaş Hydrocyclones are designed in simple structure to be used in the filtration of well water or other water sources containing sand, gravel or particles heavier than the water. Due to simple structure, it is more economic and easy to use relative to other sand separators.

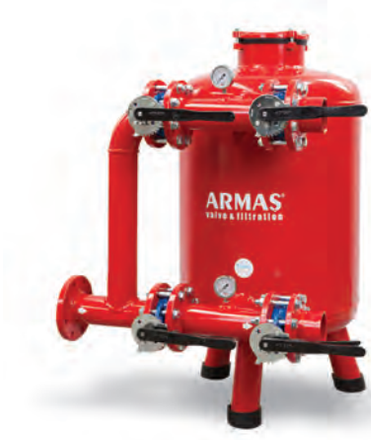
Body	: Polyester Coated Carbon Steel
Available In / Out Sizes	: 2" (50 mm) - 8" (200mm)
Available Connection Type	: Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)



SAND SEPARATOR - ANGLE TYPE

Armaş Angle Type Sand Separators are designed in simple structure to be used in the filtration of well water or other water sources containing sand, gravel or particles heavier than the water. Due to simple structure, it is more economic and easy to use relative to other sand separators. Armaş Sand Separators causes minimum pressure loss in filtration systems and therefore, they operate at maximum efficiency.

Body	: Polyester Coated Carbon Steel
Available In / Out Sizes	: 3" (80 mm) - 6" (150mm)
Available Connection Type	: Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)



GRAVEL (SAND - MEDIA) FILTER W/BYPASS

Filtration rates of gravel filters designed to be used in filtration of river, lake, pool water and water resources containing organic materials such as lichen and alga is over 15 m/h implicating that they are rapid filters. The outstanding advantage of the gravel filters against other types of filters is about maximum filtration efficiency due to deep filtration.

Body	: Polyester Coated Carbon Steel
Available In / Out Sizes	: 2" (50 mm) - 4" (100 mm)
Available Tank Sizes	: 20" (500 mm) - 30" (750 mm)
Available Connection Type	: Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)
Sand	: Basalt or Quartz

SUCTION FILTERS

Suction filter is designed to protect the pumps from debris and foreign matters. It is generally used in water sources containing algea, debris, and other heavy wastes. It is connected to pump suction and submerged into water (river, lake, reservoir, etc.)

Body	: Polyester Coated Carbon Steel
Available In / Out Sizes	: 4" (100 mm) - 12" (300 mm)
Available Connection Type	: Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)
Filtration Degree	: 5000 micron

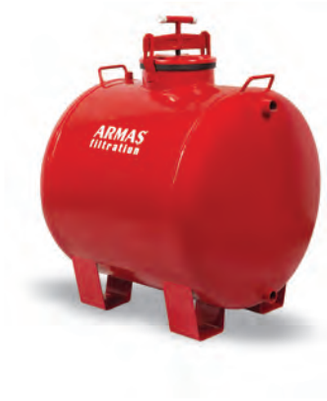
YD/YE Series

LD/LE Series

METAL SCREEN - DISC FILTERS

Armaş 3000 Series Disc Filters are designed to ensure deep filtration as a consequence of one-on-one order of many disc sheets manufactured from nylon reinforced polypropylene material on a filter body. Having a simpler design Relative to different filter groups, Armaş 3000 Series Screen Filters are really successful in filtration of water well and water resources containing sand. Armaş 3000 series screen filters are manufactured in two body form including angle and horizontal type for meeting needs of different application.

Body	: Polyester Coated Carbon Steel
Available In / Out Sizes	: 2" (50 mm) - 5" (125 mm)
Available Connection Type	: Threaded (BSP - NPT), Flanged, Grooved End
Max. Operation Pressure	: 8 bar (116 PSI)
Filtration Degree	: 130 micron (120 mesh)



FERTILIZER TANK

Armaş Fertilizer Tanks are developed for chemical fertilizer or pesticide applications directly to root region of the plant using irrigation water of drip or sprinkler irrigation systems. It ensures very practical and convenient fertilizing and pesticide administration in irrigation systems due to simple structure and ease of use.

Body	: Polyester Coated Carbon Steel
Available Models	: Horizontal - Vertical
Available Capacites	: 60 lt - 400 lt
Max. Operation Pressure	: 8 bar (116 PSI)

SMART SOLUTIONS

FOR WATER AND FIRE

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