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SMART SOLUTIONS
FOR WATER

Product Brochure

Waterworks • Fire Protection • Irrigation • Filtration





ARMAS

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VALVE & FILTRATION

ARMAS
VALVE & FILTRATION

AutoFlust

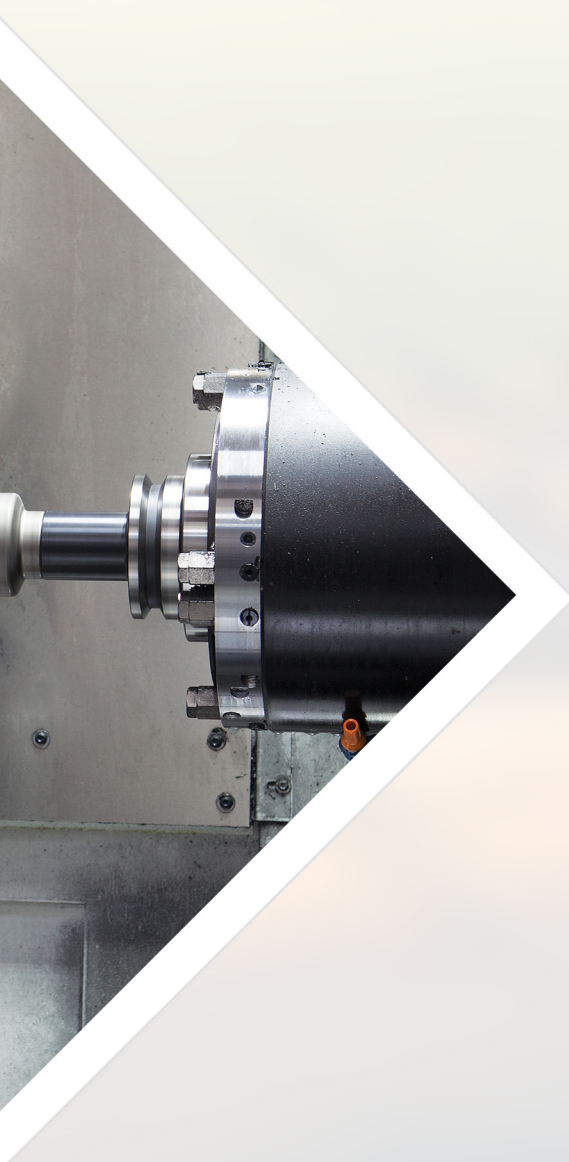
● COMPANY PROFILE

ARMAŞ A.Ş. was founded in 1998 to produce valves for potable water 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 A.Ş. 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, Automatic Filtration Systems, Gate Valves, Ball Valves, Strainers, Check Valves, Air Valves and Hydrants he produced. Our company who does not sacrifice quality in production has used ISO 9001-2000 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 ISO 14001 Environmental Management System Certificate and TS 18001 Occupational Healthy and Safety Certificate since 2007.

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.



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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.

Available Sizes: 2" (50 mm) - 16" (400 mm)

Available Connection Types: Flanged

Available Pressure Norms: PN16 - PN25 - PN40

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.

Available Sizes: 1½" (40 mm) - 12" (300 mm)

Available Connection Types: Threaded, Flanged, Grooved End

Available Pressure Norms: PN10 - PN16 - PN25



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. Armaş 500 series hydraulic control valves are designed so that it can be used in potable water force network, agricultural irrigation, filtration, applications by even an unskilled personnel.

Available Sizes: 1½" (40 mm) - 4" (100 mm)

Available Connection Types: Threaded, Flanged



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.

Available Sizes: 2" (50 mm) - 4" (100 mm)

Available Connection Types: Threaded, Flanged, Grooved End

CONTROL FUNCTIONS

CODE	MODEL	800	600	500
M	MANUAL CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EL	SOLENOID CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EL/C-3W	ELECTRIC CONTROL VALVE WITH CONTROL DEVICE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PR	PRESSURE REDUCING VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PR(3W)	PRESSURE REDUCING VALVE (3 WAY PILOT)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PRD	PROPORTIONAL PRESSURE REDUCING VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PREL	SOLENOID CONTROLLED PRESSURE REDUCING	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PS	PRESSURE SUSTAINING VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DIF	DIFFERENTIAL PRESSURE SUSTAINING VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PRPS	PRESSURE REDUCING AND SUSTAINING VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FR	FLOW RATE CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ALT	ALTITUDE CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ALT-B	BI-LEVEL ALTITUDE CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FL	MODULATING TYPE FLOAT LEVEL CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FLEL	ELECTRIC FLOAT LEVEL CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DIFL	DIFFERENTIAL FLOAT LEVEL CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
QR	QUICK PRESSURE RELIEF VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SA	SURGE ANTICIPATING VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HCV	HYDRAULIC CHECK VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NSC	NON-SLAM CHECK VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PC	PUMP CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DPC	DEEP WELL PUMP CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FE	EXCESSIVE FLOW SHUT-OFF VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RC	REMOTE CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EC	ELECTRONICALLY CONTROLLED VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TSO	TWO STAGE OPEN HYDRAULIC CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FRPR	PRESSURE REDUCING AND FLOW RATE CONTROL VALVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



ALARM CHECK VALVES

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.

Available Sizes: 2½" (65 mm) - 8" (200 mm)

Available Connection Types: Flanged



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. It is possible to get info about the system to see on the valve's body. The valve is able to install on indoor&outdoor applications.

Available Sizes: 2" (50 mm) - 12" (300 mm)

Available Connection Types: Flanged



OS&Y GATE VALVES - NRS GATE VALVES

OS&Y Valve is a type of gate valve which is able to follow the opening/closing position by moving the stem up&down movement, is able to follow electronically the movement by adding a monitoring key, and full open position does not disrupt the flow. OS&Y Valve generates low head loss according to butterfly valves. 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.

Available Sizes: 2" (50 mm) - 8" (200 mm)

Available Connection Types: Flanged



FIRE HYDRANTS (OVERGROUND - UNDERGROUND)

Armaş Overground Fire Hydrants are designed and manufactured according TS 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.

It is the hydrant of which watering outlets are under ground and cover is on 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. Underground hydrants are used in supplying water for fire brigade in factories, warehouses, industrial plants, around the buildings, fire sensitive forestlands and residential areas.

Available Sizes: 3" (80 mm) - 4" (100 mm)

Available Connection Types: Flanged



RESILIENT SEATED GATE VALVES-F4



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.

Available Sizes: 2" (50 mm) - 24" (600 mm)

Available Connection Types: Flanged

RESILIENT SEATED GATE VALVES-F5



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.

Available Sizes: 2" (50 mm) - 24" (600 mm)

Available Connection Types: Flanged

AIR COMBINATION VALVES - AAV SERIES



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.

Available Sizes: 2" (50 mm) - 8" (200 mm)

Available Connection Types: Flanged

AIR RELEASE VALVES - SINGLE&DOUBLE ORIFICE



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. When water in pipeline is drained, air enters into pipe quickly in such a way that it will not create vacuum. It is proposed that double air valve will be used for maximum efficiency. Generally it is used in pump downstream; automatic irrigation controller upstream and in elevation differentials emerged by referring water source.

Available Sizes: 2" (50 mm) - 8" (200 mm)

Available Connection Types: Flanged

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. Strainers are used to protect equipments such as pumps, water counters and automatic check valves from foreign matters by being mounted on intake side of this equipment.

Available Sizes: 2" (50 mm) - 16" (400 mm)

Available Connection Types: Flanged

CHECK VALVES

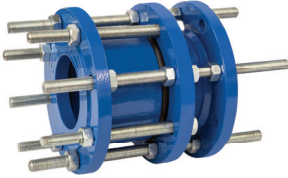


Swing check valve permits that water passes toward flow direction and prevents water flow in counter direction. It is manufactured in such a way that it will be closed by its own weight or by a weight mechanism. It is used in especially pumping plants to prevent back flow in case pump becomes out of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

Available Sizes: 2" (50 mm) - 8" (200 mm)

Available Connection Types: Flanged

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.

Available Sizes: 4" (100 mm) - 20" (500 mm)

Available Connection Types: Flanged

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.

Available Sizes: 2" (50 mm) - 6" (150 mm)

Available Connection Types: Flanged

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 standard 130 micron filter size, different screen sizes are available for different dirt levels.

Available Sizes: 2" (50 mm) - 8" (200 mm)

Available Connection Types: Threaded, Flanged, Grooved End

Available Filtration Degrees: 100 micron (150 mesh), 130 micron (120 mesh)

AUTOFLUSH® AUTOMATIC DISC FILTERS



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. Most outstanding advantage of AutoFlush® Fully automated Plastic Disc filter is that it automatically self cleans the filter when it is obstructed. A class patent was registered by European Patent Institute because of back-flushing pressure is 1 bar.

Available Sizes: 3" (80 mm)

Available Connection Types: Grooved End

Available Filtration Degrees: 100 micron (150 mesh), 130 micron (120 mesh), 200 micron (80 mesh)

**PATENTED BY EUROPEAN PATENT INSTITUTE
BACK-FLUSHING PRESSURE IS 1 BAR.**



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.

Available Sizes: 2" (50 mm) - 4" (100 mm)

Available Connection Types: Threaded, Grooved End

Available Filtration Degrees: 100 micron (150 mesh), 130 micron (120 mesh), 200 micron (80 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.

Available Sizes: ¾" - 1" - 1¼" - 1½" - 2"

Available Connection Types: Threaded

Available Filtration Degrees: 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 15m³/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..

Available In/Out Sizes: 2" - 2½" - 3" - 4"

Available Tank Sizes: 20" - 24" - 30" - 36" - 48"

Available Connection Types: Threaded, Flanged, Grooved End

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. Armaş Hydrocyclones causes minimum pressure loss in filtration systems and therefore, they operate at maximum efficiency. Armaş Hydrocyclones, used as primary filtering element in filtration systems, are provided in single or modular forms which ensure manual or fully automatic cleaning process

Available Sizes: 2" (50 mm) - 8" (200 mm)

Available Connection Types: Threaded, Flanged, Grooved End

SUCTION FILTERS



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

Available Sizes: 4" (100 mm) - 12" (300 mm)

Available Connection Types: Flanged

PLASTIC AIR VALVES (AUTOMATIC-KINETIC)



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. Introducing air when the pipe drains, maintaining atmospheric pressures in the pipe, preventing collapse and cavitation damage to the conduits. Relieving the entrained air from the water, while the network is pressurized.

Available Sizes: ½" - ¾" - 1" - 2"

Available Connection Types: Threaded

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