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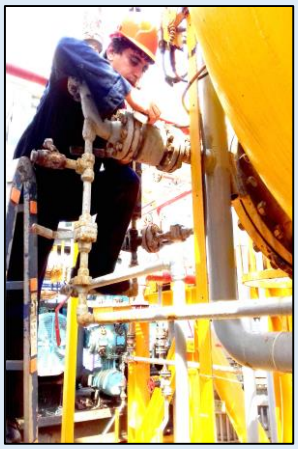
Products Specification



Azarsam Instrument Co.

Mr.Ghaffar Shababni founded Azarsam Instrument Co. (EYVAZ brand name) in 1993. It is one of the pioneer Iranian companies in the field of manufacturer of control valves, level controllers, and steam-line automatic control equipment. Azarsam Instrument Co. produces around 30 types of products in different models and sizes comprising. Control valves (temperature control, pressure, debi and valve bellows). Level controllers (magnetic level gauge, level switch, level transmitter, pressure switch, and flow switch). Steam traps (floater thermostatic, thermodynamic, air-trap, air-vent, and vacuum breaker). Gradually, we are developing our technology and technical infrastructure investment as well as production capacity, both for the quality of enterprising and full of initial purposes and take a crucial step toward our country's self-sufficiency in producing the equipment.

Our company has employed more than 100 personnel and owns an overall amount of 10000 square meter of land. For more information, you can see this site: WWW.AZARSAM.CO

Azarsam Instrument Co. has got different certificates like:

1- Iranian Petroleum Industries equipment manufacturers association.

2- Iranian Society of Instrument and Control Engineering.

3- Energy Petroleum Institute.

4- Certificate of compliance. (CE) from Ente certification machine company.

5- ISO 9001-2015

6- The member of Tehran Chamber of commerce, industries, mines and agriculture.

7- The member of Vendor List like National Iranian Gas Company, National Petrochemical Compnay, National Iranian Oil refining and Distribution Company.

8- Received The legal confirmation from government parts like national Iranian Gas company, Iranian offshore oil company, Shazand oil refinery, Kermanshah oil refining company, Machine Sazi Arak, Arak Petrochemical Corporation, Razi Petrochemical Corporation, and …. .

9- Incentive standard certification from Iran national standards organization (INSO) for Manual Globe Valve the No: M668465699 in 1399 Year.

10- Obtaining Knowledge-based Company from Vice president for science and technology.

11- To register the products in Iran Code.

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Magnetic Level Switch

LS-06/08	
Max working pressure	16 bar
Max working temperature	150 ºC
Length of product	0.3 ~ 6m
Installation	Screwed/Flange
Body and floater material	SS304 / SS316

Function:

The level switch is useful device to control level of liquids. This device is used in water, fuel, acid, De aerator tanks and condensate, under pressure caldrons, water treatment systems etc. This device can produce like EX. It is mounted from side or above of reservoirs.

Magnetic Level Gauge

MLG - 33 / 55	
Max working pressure	200 bar
Max working temperature	555 ºC
Length of product	0.3 ~ 18m
Installation	Screwed/Flange
Body and floater material	SS304/SS316/Ti/PP/ UPVC

Function:

Magnetic Level gauge is a useful device to illustrate and control of liquids. This device is used in water, fuel, acid, chemical, tanks and in steam, hot water caldrons, oil, gas, petrochemical and pharmaceutical industry. We can present dry contact like SPDT or EX. The level transmitter can be installed on this device and sending out put current (4 …. 20 mA). This level gauge may be manufactured for interface level reading. The magnetic level gauge has various types of installation. (Side-side, side-bottom, top-side, top-bottom, top-mounted).

Magnetic Level Transmitter

LT-33/44	
Max working pressure	25 bar
Max working temperature	150 ºC
Length of product	0.3 ~ 4m
Installation	Screwed/Flange
Body and floater material	SS304/SS316

Function:

LT 33 level transmitter is used for controlling the liquid level in a tank. LT 33 may be used in petrochemical industry, refineries, power plants, industrial projects, and water treatment facilities, particularly in Acid tanks, pressure vessels, condensate tanks, deaerators, and fuel/water tanks. Inside the tube generate a (4 … 20mA) amperage or (0 … 10V) voltage in the output. This device can produce like EX. It is mounted from side or above of reservoirs.

Level Switch Probe

LSP-4	
Max working pressure	40 bar
Max working temperature	239 ºC
Length of product	2 m
Installation	Screwed/Flange
Body and rod material	SS 304

Function:

Lsp4 is used for alarm and on/off liquid level control applications in boilers, pressure vessels, and other types of tanks. LSP4 is connected to a boiler or tank by means of a threated or flanged connection.

Magnetic Level Switch

LS-04

Max working pressure	10 bar
Max working temperature	150 °C
Installation	Special Flange
Body and rod material	SS 304

Function:

Level switch type LS-04 is useful to control device level of liquids. This device is used in water, fuel, acid, De aerator tanks and also condensate, under pressure caldrons, water treatment systems and etc. The switch of Ls-04 is SPDT. LS04 has 2 types stainless steel and carbon steel . The LS-04 is provided with flange.

Magnetic Level Switch

LS-14

Max working pressure	25 bar
Max working temperature	250 °C
Installation	Special Flange
Body and rod material	SS304

Function:

Level switch type LS-14 is useful device to control level of liquids. This device is used in water, fuel, acid, De aerator tanks and also condensate, under pressure caldrons, water treatment systems. The switch of LS14 is SPDT. LS14 has two types stainless steel and carbon steel. The LS14 is provided with flange.

Mercury Level Switch

LS-12

Max working pressure	16bar
Max working temperature	220 °C
Installation	Screwed
Body and rod material	GGG40.3

Function:

Level switch type LS-12 is useful device to control level of liquids. This device is used in water, fuel, acid, De aerator tanks and also condensate, water treatment systems. The switch of this model is Mercury.

Electromechanical Level Switch

LS-02

Max working pressure	6bar
Max working temperature	100 °C
Installation	Screwed
Body and rod material	SS304/MS58

Function:

Level switch type LS-02 is useful device to control level of liquids. This device is used in water, fuel, acid, De aerator tanks and condensate and water treatment systems. The switch of this model is SPDT.

Liquid Flow Switch		
FS-1601/02		
Max working pressure	16 bar	
Max working temperature	100/150ºC	
Installation	Screwed	
Blade	SS 304	

Function:

Liquid flow switch type 16-02 is useful device to switch in liquid line. This device is used in heating and cooling system, water supply systems pipelines, cooling systems generator, cooling chiller output etc. The switch of this model is SPDT.

Liquid Level Switch		
LS-10		
Max working pressure	4 bar	
Max working temperature	50 ºC	
Length	3 m	
Body and cable material	PVC	

Function:

Level switch type LS-10 is useful device to control level of liquids. This device is used in water, acid, chemical tanks and also in water-pump station, concrete reservoir, sinkhole and water wells. The switch of this model is SPDT. The length of level switch is between 3 to 50 meter.

Pressure Switch	
PS-LT1	
	
Max. pressure working range	15 … 145 psi
Max. …. P	15 … 60 psi
Max. working temperature without loop	70 ˚C
Connection type	Screwed

Function:

Pressure switch type PS-HT1 is useful device to control amount of pressure inside systems. It is used in steam boilers, under pressure lines and etc. The switch of this model is SPDT.

Pressure Switch	
PS-HT1	
	
Max. pressure working range	15 … 145 / 20 … 300 psi
Max. …. P	10 … 22 / 20 … 50 psi
Max. working temperature without loop	110 ˚C
Connection type	Screwed

Function:

Pressure switch type PS-HT1 is useful device to control amount of pressure inside systems. It is used in steam boilers, under pressure lines and etc. the pressure switch is produce in 2 ranges: 1…. 10 bar and 2…. 20 bar. The switch of this model is SPDT.

Electric Control valve

Control signal	4 … 20 mA
Voltage feed	220V AC
Size	DN15~150/½”~ 6”
Connection type	Flange
Body material	GG25/GGG40.3 /SS316/A216WCB

Pneumatic Control Valve

NCV 24-11	
Max. working pressure	PN16-25-40/150-300#
Max. working temperature	-10 ~ 220 ºC
Size	DN15~150/½”~ 6”
Connection Type	Flange
Body Material	GG25/GGG40.3 /SS316/A216WCB

Function:

This valve is a useful device to control flow on the set point range in different lines. On/Off, 4 …. 20mA, 0 … 10 Volt.

NCV 24-11 is used for various industrial and special sites which don’t have compressed air and also steam, liquid or non-flammable gases lines. Body and bonnet of this product is for our company but the actuator is for Samson factory.

Function:

This valve is a useful device to control flow on the set point range in the lines. (on/off) PCV 24-11 is used for various industrial and special sites which have compressed air and also steam, liquid or non-flammable gases lines. This valve according to ANSI FCI have two types of seat: metal sealing – soft sealing.

In the case, that we have high temperature or erosion in the flow you can use isolation with bellows. In addition, you can use hand wheel on actuator. If valve is used to gradually control flow rate, firstly regulator air should get inside I to P and then it will conduct the air to actuator. Also, if you need you can install switch limit and regulator filter.

Self-Operated Excess Pressure Controller

PCV 23-35	
Max. working pressure	PN16-25-40/150-300#
Max. working temperature	300 ºC
Size	DN125&150/6”
Set pressure	1 ~ 10 bar
Connection type	Flange
Body material	GG25/GGG40.3/ SS316/A216WCB

Self-Operated Pressure Controller

PCV 23-33	
Max. working pressure	PN16-25-40/150-300#
Max. working temperature	300 ºC
Size	DN125&150/6”
Set pressure	0.14 ~ 8.6 bar
Connection type	Flange
Body material	GG25/GGG40.3/ SS316/A216WCB

Function:

Self-operated pressure control valve is a useful device to fix pressure on an adjusted set point. 23-35 valve is usable for liquid, non-flammable gases and steam lines. System of controlling 23-35 is by pass self-operated.

Function:

Self-operated pressure control valve is a useful device to fix pressure on an adjusted set point. 23-33 valve is usable for liquid, non-flammable gases and steam lines. System of controlling 23-33 is by pass self-operated.

Self-Operated Pressure Controller

PCV 41-23	
Max. working pressure	PN16-25-40/150-300#
Max. working temperature	350 ºC
Set pressure	0.8 … 16 bar
Size	DN15~100
Connection type	Flange
Body material	GG25/GGG40.3 /SS316/A216WCB

Function:

Self-operated pressure control valve is used to counteract excess pressure of a system on the adjust set point. This device is made based on the DIN and ANSI standards. PCV 41-23 valve is usable for liquid, non-flammable gases and steam lines. If the customer needs to high range. We can present metal actuator with bellows in 2 ranges. 10 ~ 22 bar and 20 ~ 28 bar. If the customer order to us, we can produce all of the valves with body steel.

Self-Operated Excess Pressure Controller

PCV 41-73	
Max. working pressure	PN16-25-40/150-300#
Max. working temperature	350 ºC
Set pressure	0.8 … 16 bar
Size	DN15~100
Connection type	Flange
Body material	GG25/GGG40.3 /SS316/A216WCB

Function:

Self-operated pressure control valve is used to counteract excess pressure of a system on the adjust set point. This device is made based on the DIN and ANSI standards. PCV 41-23 valve is usable for liquid, non-flammable gases and steam lines. If the customer needs to high range. We can present metal actuator with bellows in 2 ranges. 10 ~ 22 bar and 20 ~ 28 bar. If the customer order to us, we can produce all of the valves with body steel.

Self-Operated Pressure Controller

PCV 39-02	
Max. working pressure	PN16
Max. working temperature	220 ºC
Set pressure	DN15 ~ 80
Size	0.8 ~ 16 bar
Connection type	Flange
Body material	GG25

Function:

Self-operated pressure control valve is a useful device to fix pressure of line an adjusted set point. This valve is useful for steam lines.

Manual Globe Valve (Bellows Seal)

MGV 16-250	
Max. working pressure	PN16
Max. working temperature with bellows	350 ºC
Max. working temperature with packing	220 ºC
Size	DN15~250
Connection type	Flange
Body material	GGG40.3

Function:

Manual Globe Valve type 16-250 is used for adjusting the flow rate within the valve output range, as well as opening/closing the process pipeline. It can be used for steam, thermal oil, or other non-combustible gases and liquids.

Self-Operated Temperature Control Valve

TCV 11	
Max. working pressure	PN16
Max. working temperature with bellows	220 ºC
Sensor temperature adjustable	-10 … 150 ºC
Size	DN15~80
Connection type	Flange
Body material	GG25

Function:

Self-operated temperature controller is a useful device to control temperature of pipeline and tanks in cooling and heating systems. Like controlling temperature: de aerator and air conditioner. This valve is normally opened and when the temperature increase, it is closed gradually. This valve has manual sensor and analogue sensor. When you need to control air temperature of a fluid inside a channel, you can use this piece. This valve has 1 … 25 bar. The length of this valve is 3 meter. If the customer wants more length, we can produce it.

Self-Operated Temperature Control Valve

TCV 44	
Max. working pressure	PN16-25-40/150-300#
Max. working temperature with bellows	350 ºC
Sensor temperature adjustable	-10 … 150 ºC
Size	DN15~150
Connection type	Flange
Body material	GG25/GGG40.3/ SS316/A216WCB

Function:

Self-operated temperature controller is a useful device to control temperature of pipeline and tanks in cooling and heating systems. Like controlling temperature: de aerator and air conditioner. This valve is normally opened and when the temperature increase, it is closed gradually. This valve has manual sensor and analogue sensor. When you need to control air temperature of a fluid inside a channel, you can use this piece. This valve has 12 … 25 bar. The length of this valve is 3 meter. If the customer wants more length, we can produce it.

Thermodynamic Stem Trap

TD – 62	
Max. working pressure	65bar
Max. working temperature with bellows	425 ºC
Size	½” ~ 1”
Connection type	Flange/Screwed/ Socket Welded
Body material	A182 F321 /A105

Function:

Steam traps are used to remove condensate from steam lines. This device is used in water, fuel, acid, chemical, tanks and in steam, hot water caldrons, oil, and gas, petrochemical and pharmaceutical industry.

Pressure Reducing Valve

PRV 40	
Max. working pressure	25 bar
Max. working temperature with bellows	210 ºC
Size	½” ~ 1”
Connection type	Screwed
Body material	GGG40.3

Function:

Pressure reducing valve by adjusting spring force rate and apply to plug and bellows surface in one side and entering output pressure on the plug and bellows surface in another side, the output volume is fixed in specific rate and in this way, the control of output pressure is possible.(0.14 …. 8.6 bar).

Thermodynamic Stem Trap		Floater Thermostatic Stem Trap	
TD – 52		**FT–10/14**	
			
Max. working pressure	42bar	Max. working pressure	16bar
Max. working temperature with bellows	400 ºC	Max. working temperature with bellows	220 ºC
Size	½” ~ 1”	Size	½” ~ 2”
Connection type	Flange/Screwed/ Socket Welded	Connection type	Flange/Screwed/ Socket Welded
Body material	A182F321 /A105	Body material	GGG40.3
Function: Steam traps are used to remove condensate from steam lines. This device used in water, fuel, acid, chemical, tanks and in steam, hot water caldrons, oil, and gas, petrochemical and pharmaceutical industry.		**Function:** Steam traps used to remove condensate from steam lines. This device used in water, fuel, acid, chemical, tanks and in steam, hot water caldrons, oil, and gas, petrochemical and pharmaceutical industry.	

Thermodynamic Stem Trap		Floater Thermostatic Stem Trap	
TD – 42		**FT–44**	
			
42bar	Max. working pressure	32bar	Max. working pressure
400 ºC	Max. working temperature with bellows	250 ºC	Max. working temperature with bellows
½” ~ 1”	Size	½” ~ 2”	Size
Screwed/Socket Welded	Connection type	Flange	Connection type
A743 Gr. CA40F	Body material	A216 WCB	Body material
Function: Steam traps used to remove condensate from steam lines. This device used in water, fuel, acid, chemical, tanks and in steam, hot water caldrons, oil, and gas, petrochemical and pharmaceutical industry.		**Function:** Steam traps used to remove condensate from steam lines. This device used in water, fuel, acid, chemical, tanks and in steam, hot water caldrons, oil, and gas, petrochemical and pharmaceutical industry.	

Air Vent		Air Trap	
AV13		**AT12**	
			
Max. working pressure	16bar	Max. working pressure	16bar
Max. working temperature with bellows	250 ºC	Max. working temperature with bellows	250 ºC
Size	½” ~ 1”	Size	½” ~ 1”
Connection type	Flange/Screwed	Connection type	Flange/Screwed
Body material	GGG40.3	Body material	GGG40.3
Function: Floater air vent is useful device to discharge air or gases in the liquid line. It has two types of flanged and screwed. If the customer wants A216WCIS material, you can contact to sales department. Floater air vent can be installed vertically and horizontally.		**Function:** Floater air vent is useful device to discharge air or gases in the liquid line. It has two types of flanged and screwed. If the customer wants A216WCIS material, you can contact to sales department. Floater air vent can be installed vertically and horizontally.	

Vacuum Breaker			Vacuum Breaker		
VB15-02			**VB15-01**		
Max. working pressure	16bar		Max. working pressure	25bar	
Max. working temperature with bellows	260ºC		Max. working temperature with bellows	400 ºC	
Size	½”		Size	½”	
Connection type	Screwed		Connection type	Screwed	
Body material	MS58		Body material	SS304	
Function: VB-1501 vacuum breaker is useful device to remove vacuum and to prevent changing in the form of system.			**Function:** VB-1501 vacuum breaker is useful device to remove vacuum and to prevent changing in the form of system.		