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WWW.AZARSAM.CO Products Specification



Azarsam Instrument Co.



Azarsam Instrument Co. (ETC brand name) has established 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: <u>WWW.AZARSAM.CO</u>

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- Certificate of standard incentives from the institute of standards and industrial research of Iran for Bellows Valves the number of 668465699 in 1399 year.

7- Certificate of standard incentives from the institute of standards and industrial research of Iran for Pneumatic control valves the number of 669340401 in 1401 year.

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

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

10- 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

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

12- To register the products in Iran Code.

Office center Address: No.28 Hassan Abdolrahimi St. Navard St. Fat'h Highway. Tel:00982166824935 00982166800395 EX.(112)

Factory Address: No F42F43. Sarvestan St. Nasirabad industrial state. Tel: 00982156392247-4



Whatssapp & Telegram No:

00989339944698

mailto:azarsam.sa@gmail.com

Magnetic Level Switch			Magnetic Level Gauge		EYYAZ,
<u>MLS 20-06</u> / <u>MLS 20-08</u>			<u>MLG 20-33</u> / <u>MLG 2</u>	<u>0-44</u> / <u>MLG 20-55</u>	
Max working pressure	16 bar	CS	Max working pressure	200 bar	20-14
Max working temperature	150 °C	e	Max working temperature	555 °C	
Length of product	0.3 ~ 6m	TIMBL.	Length of product	0.3 ~ 18m	
Installation	Screwed/Flange	CALCULATION.	Installation	Screwed/Flange	
Body and floater material	SS304 / SS316	сй	Body and floater material	SS304/SS316/Ti/PP/ UPVC	
Function.					

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.

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 Leve	el Transmitter		Level Swite	ch Probe
<u>MLT 20-21</u> /	/ <u>MLT 20-22</u>		<u>LSP 2</u>	<u>0-24</u>
Max working pressure	25 bar		Max working pressure	40 bar
lax working emperature	150 °C	THE PLANE AND	Max working temperature	239 °C
Length of product	$0.3 \sim 4m$	Ô	Length of product	2 m
nstallation	Screwed/Flange	Ī	Installation	Screwed/Flange
Body and floater material	SS304/SS316	M	Body and rod material	SS 304
Function:	-	•	Function:	

MLT 20-21 level transmitter is used for controlling the liquid level in a tank. MLT 20-21 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.

LSP 20-24 is used for alarm and on/off liquid level control applications in boilers, pressure vessels, and other types of tanks. LSP 20-24 is connected to a boiler or tank by means of a

threated or flanged connection.

Magnetic L	evel Switch	Magnetic Level Switch			
<u>MLS-</u>	<u>20-04</u>	<u>MLS 20-14</u>			
Max working pressure	10 bar	Max working pressure	25 bar		
Max working temperature	150 °C	Max working temperature	250 °C		
Installation	Special Flange	Installation	Special Flange		
Body and rod material	SS 304	Body and rod material	SS304		
Function: Level switch type MLS 20-04 is	useful to control device level	Function: Level switch type MLS 20-14 is a	useful device to control level		
of liquids. This device is used i	n water, fuel, acid, De aerator	of liquids. This device is used in water, fuel, acid, De aerator			
tanks and also condensate, u	nder pressure caldrons, water	tanks and also condensate, under pressure caldrons, water			
treatment systems and etc. Th	e switch of MLS 20-04 is SPDT.	treatment systems. The switch of MLS 20-14 is SPDT. MLS			
MLS 20-04 has 2 types stainle	ss steel and carbon steel. The	20-14 has two types stainless steel and carbon steel. The			
MLS 20-04 is provided with fla	inge.	MLS 20-14 is provided with flange.			
Mercury Le	evel Switch	Mechanical Level Switch			
MLS	<u>20-12</u>	<u>MLS 2</u>	<u>0-02</u>		
Max working pressure	16bar	Max working pressure	6bar		
Max working temperature	220 °C	Max working temperature	100 °C		
Installation	Screwed	Installation	Screwed		
Body and rod material	GGG40.3	Body and rod material	SS304/MS58		
Function: Level switch type MLS 20-12 is	s useful device to control level	Function: Mechanical Level switch type N	/ILS 20-02 is useful device to		
of liquids. This device is used in water, fuel, acid, De aerator		control level of liquids. This de	evice is used in water, fuel,		
tanks and also condensate, w	tanks and also condensate, water treatment systems. The		acid, De aerator tanks and condensate and water treatment		
switch of this model is Mercu	ry.	systems. The switch of this mod	del is SPDT.		

Liquid Flow Switch			Pear Level Switch		
LFS 20-71 / LFS 20-72		<u>PLS 20-10</u>			
Max working pressure	16 bar		Max working pressure	4 bar	
Max working temperature	100/150°C		Max working temperature	50 °C	
Installation	Screwed		Length	3 m	
Blade	SS 304		Body and cable material	PVC	
Function: Liquid flow switch type LFS 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.		Function: Level switch type PLS 20-10 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.			
Control Pressure Switch		Control P	ressure Swit	ch	
	<u>CPS 20-62</u>			<u>s 20-61</u>	
Max. pressure worki	ng range 15	145 psi	Max. pressure working rang	e 1514	15 / 20 300 psi
Max P	15	60 psi	Max P	10 22	2 / 20 50 psi
Max. working tempe without loop	rature 70 °C		Max. working temperature without loop	110 °C	
Connection type	Screw	ed	Connection type	Screwed	l
Function: Pressure switch type CPS 20-62 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.		Function: Pressure switch type Cl control amount of pressu steam boilers, under p pressure switch is produc 2 20 bar. The switch of	re inside sys pressure lin ce in 2 range	stems. It is used in les and etc. the es: 1 10 bar and	

Electric	Control valve		Pneumatio	c Control Valve	
			<u>NCV 10-11</u>		T
Control signal	4 20 mA		Max. working pressure	PN16-25-40/150- 300#	
Voltage feed	220V AC	R	Max. working temperature	-10 ~ 220 °C	
Size	DN15~150/½"~ 6"		Size	DN15~150/½"~ 6"	I
Connection type	Flange		Connection Type	Flange	
Body material	GG25/GGG40.3 /SS316/A216WCB	-	Body Material	GG25/GGG40.3 /SS316/A216WCB	
NCV 10-11 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.			 soft sealing. In the case, that we flow you can use use hand wheel control flow rate, and then it will control flow rate. 	I FCI have two types of a ve have high temperatur isolation with bellows. In on actuator. If valve is firstly regulator air sho onduct the air to actuato vitch limit and regulator	re or erosion in the n addition, you can used to gradually uld get inside I to P r. Also, if you need
Excess Pres	sure Control Valve		Pressure	Control Valve	
<u>P(</u>	<u>CV 10-35</u>		<u>PC</u>	<u>V 10-33</u>	
Max. working pressure	PN16-25-40/150-300#		Max. working pressure	PN16-25-40/150- 300#	
Max. working temperature	300 °C		Max. working temperature	300 ℃	
Size	DN125&150/6"		Size	DN125&150/6"	
Set pressure	1 ~ 10 bar		Set pressure	0.14 ~ 8.6 bar	1
Connection type	Flange		Connection type	Flange	
Body material	GG25/GGG40.3/ SS316/A216WCB		Body material	GG25/GGG40.3/ SS316/A216WCB	
Function:			Function:		

Excess Pressure Control Valve is a useful device to fix pressure on an adjusted set point. 10-35 valve is usable for liquid, non-flammable gases and steam lines. System of controlling 10-35 is by pass self-operated.

pressure control valve is a useful device to fix pressure on an adjusted set point. 10-33 valve is usable for liquid, non-flammable gases and steam lines. System of controlling 10-33 is by pass self-operated.

Pressure	control Valve		Excess Pressur	re Control Valve	
<u>PCV 10-23</u>			PCV	<u>′ 10-73</u>	
Max. working pressure	PN16-25-40/150- 300#		Max. working pressure	PN16-25-40/150- 300#	
Max. working temperature	350 ℃		Max. working temperature	350 °C	
Set pressure	0.8 16 bar		Set pressure	0.8 16 bar	
Size	DN15~100		Size	DN15~100	
Connection type	Flange	\sim	Connection type	Flange	
Body material Function:	GG25/GGG40.3 /SS316/A216WCB		Body material Function:	GG25/GGG40.3 /SS316/A216WCB	
pressure of a system on the adjust set point. This device is made based on the DIN and ANSI standards. PCV 10-23 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.		This device is mad standards. PCV 41 flammable gases a needs to high rang with bellows in 2	f a system on the adj le based on the DIN a 23 valve is usable fo and steam lines. If the ge. We can present n ranges. 10 ~ 22 bar a der to us, we can pro steel.	and ANSI or liquid, non- e customer netal actuator nd 20 ~ 28 bar.	
Pressure	e Control Valve		Manual C	Blobe Valve	
<u>P</u>	<u>CV 10-09</u>		MGV	<u>/ 40-16</u>	
Max. working pressure	PN16		Max. working press	ure PN16	
Max. working temperature	220 °C		Max. working temperature with bellows	350 °C	
Set pressure	0.8 ~ 16 bar		Max. working temperature with packing	220 °C	
Size	DN15 ~ 80	\sim	Size	DN15~250	
Connection type	Flange		Connection type	Flange	
Body material	GG25		Body material	GGG40.3	
Function:			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.		the flow rate with as opening/closing	ve type 40-16 is used in the valve output r g the process pipeling nermal oil, or other n s and liquids.	ange, as well e. It can be	

Thermostatic		
TCV		
Max. working pressure	PN16	
Max. working temperature with bellows	220 °C	
Sensor temperature adjustable	-10 150 °C	
Size	DN15~80	
Connection type	Flange	NHORE I
Body material	GG25	



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Thermostatic Control Valve

<u>TCV</u>		
Max. working pressure	PN16-25-40/150- 300#	T
Max. working temperature with bellows	350 °C	W
Sensor temperature adjustable	-10 150 °C	
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 1 ... 25 bar. The length of this valve is 3 meter. If the customer wants more length, we can produce it.

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	Steam	Trap
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105	<u>$1D5\ 50-42$</u>				
Max. working pressure	42bar				
Max. working temperature with bellows	400 °C				
Size	¹ / ₂ " ~ 1"				
Connection type	Screwed/Socket Welded				
Body material	A743 Gr.CA40F				

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.

Pressure Re		
PRV		
Max. working pressure	25 bar	
Max. working temperature with bellows	210 °C	
Size	¹ / ₂ " ~ 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)

Floater Thermostatic Steam Trap		Floater Thermostatic Steam Trap			
<u>FTS 30–44</u>		<u>FTS 30–10</u> / <u>FTS 30-14</u>			
Max. working pressure	32bar	Max. working pressure	16bar		
Max. working temperature with bellows	250 °C	Max. working temperature with bellows	220 °C		
Size	¹ / ₂ " ~ 2"	Size	¹ / ₂ " ~ 2"		
Connection type	Flange	Connection type	Flange/Screwed/ Socket Welded		
Body material	A216 WCB	Body material	GGG40.3		
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.			
Float Air Vent		Float Air Trap			
FAV	<u>FAV 30-13</u>		<u>FAT 30-12</u>		
Max. working pressure	16bar	Max. working pressure	16bar		
Max. working pressure Max. working temperature with bellows	16bar 250 °C	Max. working pressure Max. working temperature with bellows	16bar 250 °C		
Max. working temperature		Max. working temperature			
Max. working temperature with bellows	250 °C ¹ / ₂ " ~ 1" Flange/Screwed	Max. working temperature with bellows	250 °C ¹ / ₂ " ~ 1" Flange/Screwed		
Max. working temperature with bellows Size	250 °C ½" ~ 1"	Max. working temperature with bellows Size	250 °C ½" ~ 1"		

Strainer T Flanged			Strainer Y Flanged			
<u>STF 40-16</u>			<u>SYF 40-16</u>			
Size	DN 200 & DN250		Size	DN 15 ~	DN 15 ~ DN150	
Max. working pressure	PN16		Max. working pressure	PN16	PN16	
Max. working temperature	-10 ~ 350 C°		Max. working temperature	-10 ~ 3	-10 ~ 350 C°	
Connection type	Flanged		Connection type	Flanged	Flanged	
Body material	GGG40.3		Body material	GGG40	GGG40.3	
etc. strainer protect the line from solid form by utilizing a perforated, mesh or wedge wine staining element. The most common range of strainer is size DN200 & DN250 with work pressure PN16 and Maxi. Working temperature 350°C and according to DIN standard.it use in different industrial sites.		strainer protect the line from solid form by utilizing a perforated, mesh or wedge wine staining element. The most common range of strainer is size DN15 to DN150 with working pressure PN16 and Maxi. Working temperature 350°C and according to the DIN standard.it uses in different industrial sites.				
Brass Vacuum Breaker BVB 40-16		EY WZ	Stainless Steel Vacuum Breaker			
			<u>SVB 40-10</u>		EYVAZ	
Max. working pressure	16bar	P.Max 16 bar T.Max 260 % VBV 15-2	Max. working pressure	25bar	A LEASE ADDR	
Max. working temperature	260°C		Max. working temperature	400 °C		
Size	1/2"		Size	1/2"		
Connection type	Screwed		Connection type	Screwed		
Body material	MS58		Body material	SS304		
Function: BVB 40-16 Brass vacuum breaker is useful device to remove vacuum and to prevent changing in the form of system.		Function: SVB 40-10 Stainless Steel vacuum breaker is useful device to remove vacuum and to prevent changing in the form of system.				

Disk Check Valve			
<u>DCV 40-40</u>			
HT71W DN100 CF8M PN40			
Size	DN 15 ~ 100		
Nominal Pressure	PN16 ~ PN40		
Working Temperature	-10 ~ 350 °C		
Connection Type	Flanged (DIN PN16/PN40) Flanged (ANSI #150/#300)		
Sealing Type Metal sealing			

Function:

It can be used for steam, thermal oil, or other noncombustible gases and liquid for preventing flow in the reverse direction. The pressure of flow cause to goes up the valves and cause to enter the liquid and gas. Until, the pressure behind of the gate is more than of it the valve is open and the flow can go through the line If the pressure behind of the gate is lower than it the weight of gate, back material pressure, and spin power prevent to close the valve. However, we can use in high temperature because the material of valve is stainless steel.

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