

MARINE PRODUCTS

 **AYVAZ**

www.ayvaz.com

INSPIRED BY CHALLENGES
MARINE INDUSTRY





YOUR POWER IN THE SEA



FORTIS IN
ARDUIS

 **AYVAZ**

THE COMPANY

Ayvaz holds the production experience of flexible connection parts at various types and customized designs for the industry since 1948.

The reputation of our company remains high thanks to our capability of providing innovative and reliable solutions for our cooperators.

We work day and night to make our partners feel close to our expertise of "flexible solutions" wherever their businesses are located.

CONSULTING

We offer a wide range of products for all possible industries. We also provide engineering activities from product specification to project estimation and work on to provide the most specific solution for each case.

We delightfully share our expertise with the potential clients who experience problems with calculation for piping systems and product selection in new plants.

CERTIFICATION

As being the leader of installation sector, Ayvaz operates its production complying with the standards that recognized by the most important national and international bodies and industrial associations.

This philosophy brings benefit to the users as well as helps to improve general quality and harmony at expansion joint, flexible metal hose applications and other product groups.

QUALITY POLICY

The primary goal of Ayvaz quality systems is meeting customer expectations while acting responsibly towards the environment and society.

While realizing this goal, we recognize our obligations to:

- Maintain an efficient quality management system that strives for continual improvement
- Comply with applicable national and international standards
- Decrease costs and increase productivity and profitability, to elevate our competitive edge without sacrificing quality
- Ensure employee satisfaction
- Cooperate closely with suppliers.

OCCUPATIONAL HEALTH & SAFETY POLICY

With its over six decades of experience, Ayvaz maintains its reliability of production for the installation sector. The occupational safety and health policy of the company is based on the respect to the human. In this respect, Ayvaz always aims;

- To protect human health by abiding the laws and the regulations with team spirit.
- To assure managers and employees are trained and accountable for preventing work related injuries and illnesses to protect themselves and the visitors as well.
- To operate an occupational health and safety management system that ensures continuous improvement through risk assessment, risk minimization and performance reporting in order to keep being an example for the others.

WORKPLACE RIGHTS OF EMPLOYEES AND SOCIAL RESPONSIBILITY POLICY

AYVAZ, monitors and supports human rights which have gained recognition in the international area. While maintaining and developing its activities, AYVAZ considers primarily health and wealth of its employees and protection of environment. It manages its activities related to Work health and Security, rights of employees, and environment according to national, legal and other requirements. AYVAZ values its employees and the contributions that they have provided.

Equal opportunities are given to everyone without regard to nationality, race, sex, religion, belief, age, citizenship, sexual orientation, marital status, pregnancy, disability in the direction of our selection/evaluation criteria such as experience, skill level and competence during the process of recruitment and employment (positioning, promotion, social rights etc.) of our employees. For this purpose, it is acted according to principles and criteria determined in all subjects within institutional social responsibility areas such as human resources and investment to human projects, partner culture, company vision, training support activities, applications for the development of culture and art.

AYVAZ respects to personal information and confidentiality rights and importance of our employees, our liability for protection of confidentiality of personal information of our employees continues in case when he quits his job in our company, it is not shared with anyone including family members and friends, unless legally required.

Our company undertakes to provide a working environment, away from illegal harassment, bullying, intimidation and discrimination, where people may realize their best works by behaving fairly and respectfully to each other, in peace and in order. No tolerance is shown to such circumstances. AYVAZ bans all types of forced employment of workers.

Required opportunities are provided to the employees working in AYVAZ in order for them to mention their complaints and suggestions, easily. There are complaint and suggestion boxes at the places where everyone may easily access, boxes are controlled and suggestions and complaints are evaluated. Our success depends on the contributions of each one of our employees.

Serhan ALPAGUT

CEO

LOCATIONS



AMERICA

U.S.A.

EUROPE

Bulgaria
Germany
Italy
Poland
Serbia
Turkey

ASIA

Azerbaijan
China
Kazakhstan
Russia
Ukraine
Vietnam

MIDDLE EAST

Dubai

SECTORS

- Automotive
- Aviation
- Construction
- HVAC-R

- Marine Industry
- Power Generation
- Renewable Energy

CONTENTS

THE COMPANY PROFILE

THE COMPANY PROFILE	2
THE COMPANY	2
CONSULTING	2
CERTIFICATION	2
QUALITY POLICY	2
OCCUPATIONAL HEALTH & SAFETY POLICY	2
WORKPLACE RIGHTS OF EMPLOYEES AND SOCIAL RESPONSIBILITY POLICY	2
LOCATIONS & SECTORS	3

CHAPTER I

LEVEL CONTROLLERS	7-20
-------------------------	------

CHAPTER II

EXPANSION JOINTS	22-23
FLEXIBLE METAL HOSES	24-25

CHAPTER III

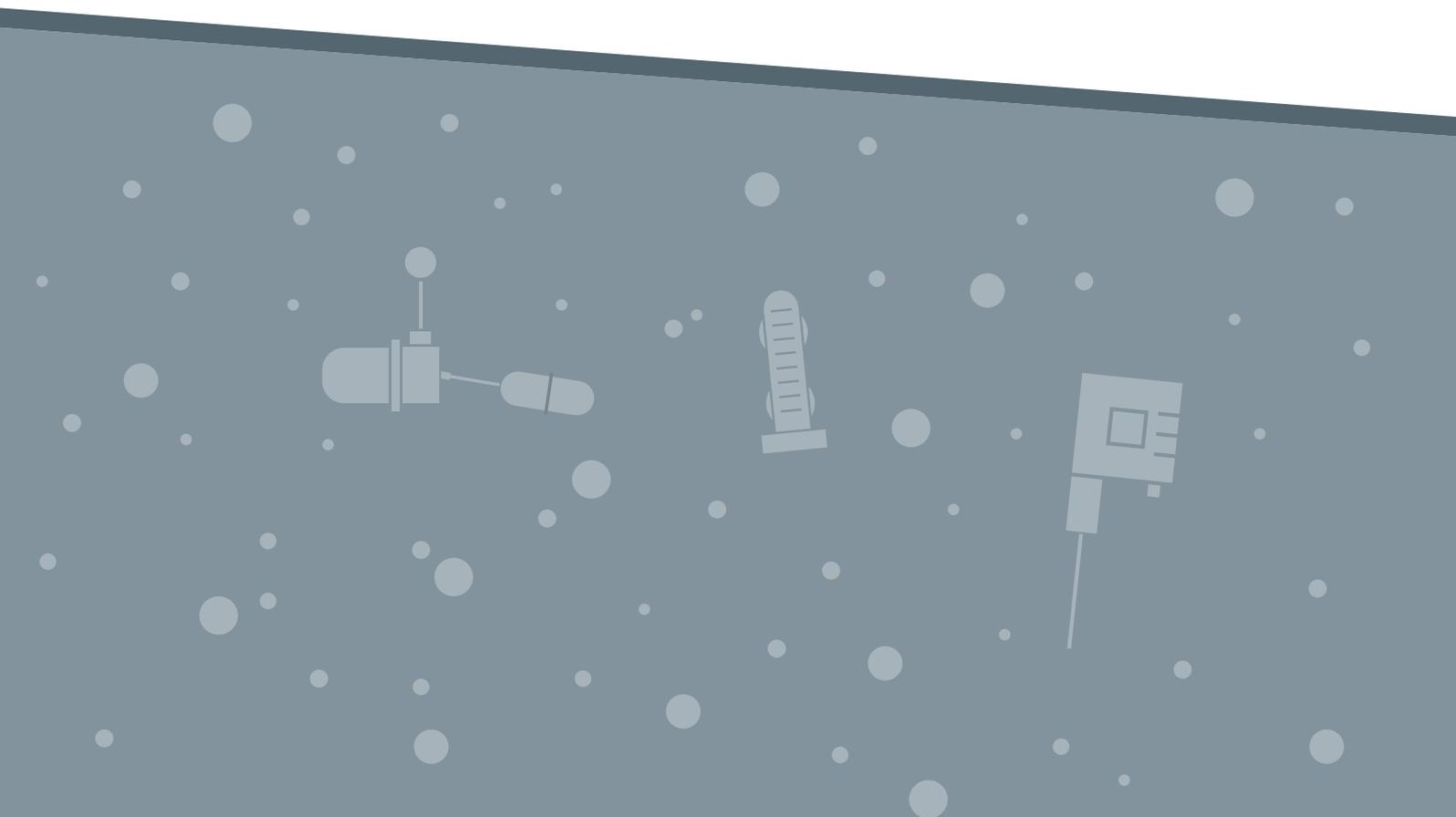
VALVES	28-42
--------------	-------

CHAPTER IV

STEAM TRAPS	44-48
VALVE INSULATION JACKETS	49
SPRINKLERS	50-51
SPRINKLER HOSES	52



MARINE PRODUCTS



CHAPTER I

LEVEL CONTROLLERS



LEVEL CONTROLLER EQUIPMENT

ELK-4/ELK-4F LEVEL ELECTRODES

APPLICATION AREAS

Steam boilers
Supply tanks
Chemical applications
Marine application

PRODUCT FEATURES

Box Panel	Aluminium Injection
Body	Stainless Steel 1.4517
Flange	Forged Steel 1.0460
Electrodes	Stainless Steel 1.4517
Electrode Insulation	PTFE
Intermediate Disc	PTFE
Connections	Flanged and threaded
Max. Operating Pressure	32 bar
Max. Operating Temperature	238 °C

OPERATING CONDITIONS

Main Power Supply	230V ± 10%, 50-60 Hz
	115V ± 10%, 50-60 Hz
	24V ± 10%, 50-60 Hz
Power Consumption	5 VA
Fuse	Thermal fuse Tmax=115 °C
Precision	Degree 1: 10µS
	Degree 2: 0.5µS
Output	3 Volt-free relay
	contact (dry)



DIMENSIONS		
ELK4 (Threaded) DIN ISO 228/1	ELK 4F (Flanged) PN 40, DIN 2635	LENGTH (mm)
1"	DN50	500 1000 1500



KP-01 CAPACITIVE LEVEL ELECTRODE

APPLICATION AREAS

Steam boilers
Supply tanks
Chemical applications
Marine application

PRODUCT FEATURES

Box Panel	Aluminium Injection
Body	Stainless Steel 1.4517
Flange	Forged Steel 1.0460
Electrodes	Stainless Steel 1.4517
Electrode Insulation	PTFE
Intermediate Disc	PTFE
Connections	Flanged and threaded
Max. Operating Pressure	32 bar
Max. Operating Temperature	238 °C

OPERATING CONDITIONS

Main Power Supply	230V ± 10%, 50-60 Hz
	115V ± 10%, 50-60 Hz
	24V ± 10%, 50-60 Hz
Power Consumption	5 VA
Fuse	Thermal fuse Tmax=115 °C
Precision	Degree 1: 10µS
	Degree 2: 0.5µS
Output	4-20 mA (0-10 V)



DIMENSIONS		
ELK4 (Threaded) DIN ISO 228/1	ELK 4F (Flanged) PN 40, DIN 2635	LENGTH (mm)
3/4"	DN50	500 1000 1500



LEVEL CONTROLLER EQUIPMENT

AELC CONDUCTIVITY TYPE LEVEL ELECTRODE

APPLICATION AREAS

Steam boilers
 Conductive tanks
 Air pressure tanks
 Marine application

PRODUCT FEATURES

Electrode: Stainless Steel
 Electrode Insulation: PTFE
 Connection Material: Stainless Steel
 Max. Working Temp: 220 °C
 Max. Working Pressure: 30 bar



AELC 09

AELC 20F

AELC 09F



DIMENSIONS	
Threaded	
3/8"- 1/2" BSP	

AECAS CAPACITIVE LEVEL SWITCHES

APPLICATION AREAS

Food machines
 Cooling liquid tanks
 Waste water tanks
 Steam boilers
 Supply tanks
 Chemical applications

Oil tanks
 CO2 liquid tanks
 Grain stores
 Sticky hot and high viscosity liquid
 Acid and chemical liquids.
 Marine application

PRODUCT FEATURES

Connection Material: Stainless Steel AISI304,316
 Insulation Material: PTFE, PFA (Opt. Peek, Ceramic)
 Housing Material: PBT (Opt. Aluminium, St.St.)
 Protection Class: IP65/IP66
 Max. Operating Pressure: 100 bar
 Max. Operating Temperature: 150 °C
 (Opt. Up to 400 C – Ceramic Insulation)



DIMENSIONS			
Threaded	Flange PN16	Flange PN40	Clamp
1/2"- 2" BSP	DN25 DN50	DN25- DN100	DN32, DN50, DN65

LEVEL CONTROLLER EQUIPMENT

AECAP CAPACITIVE LEVEL TRANSMITTERS



APPLICATION AREAS

Food machines
Cooling liquid tanks
Waste water tanks
Steam boilers
Supply tanks
Chemical applications

Oil tanks
CO2 liquid tanks
Grain stores
Sticky hot and high viscosity liquid
Acid and chemical liquids.
Marine application

PRODUCT FEATURES

Connection Material
Insulation Material
Housing Material
Protection Class
Max. Operating Pressure
Max. Operating Temperature

Stainless Steel AISI304,316
PTFE, PFA (Opt. Peek, Ceramic)
PBT (Opt. Aluminium, St.St.)
IP65/IP66
100 bar
150 °C (Opt. Up to 400 C – Ceramic Insulation)

DIMENSIONS

Threaded	Flange PN16	Flange PN40	Clamp
1/2"- 2" BSP	DN25 DN50	DN25- DN100	DN32, DN50, DN65



* Please contact our sales team for our bigger lengths.

LEVEL CONTROLLER EQUIPMENT

WATER ALARM BREAKER

APPLICATION AREAS

Steam boilers
 Supply tanks
 Chemical applications
 Marine application

PRODUCT FEATURES

Body	Stainless Steel
Max. Working Temp	85 °C
Max. Working Pressure	20 bar
Protection Class	IP68



DIMENSIONS
Threaded
3/4" NPT Double Sided

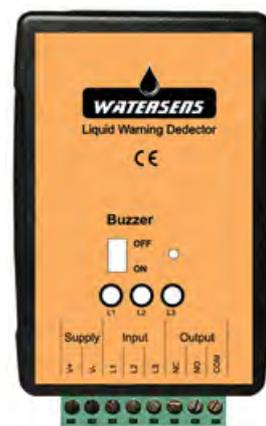
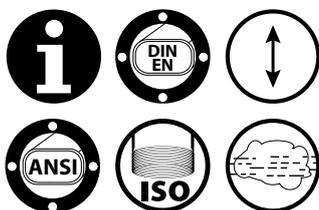
WATER ALARM DETECTOR

APPLICATION AREAS

Operation rooms
 Computer rooms
 Warehouses
 Generator rooms,
 compressor rooms
 Air conditioner rooms
 Fire alarm systems

PRODUCT FEATURES

Cover	ABS Plastic
Siren	1 Siren + ON/OFF Button
Battery Life	2 years



DIMENSIONS
70x100x22 mm

* Please contact our sales team for our bigger lengths.

LEVEL CONTROLLER EQUIPMENT

MGK-33 MAGNETIC LEVEL GAUGE

APPLICATION AREAS

Steam boilers
All liquid tanks
Chemical industry
LPG tanks, underground tanks
Marine applications

PRODUCT FEATURES

Body	Stainless Steel AISI 316
Float	Stainless Steel AISI 316L
Magnetic Disc	Aluminium
Flange Material	Carbon Steel St. 37.2 / Stainless Steel (Optional)
Connections	Flange
Max. Operating Pressure	20 bar
Max. Permissible Temperature	200 °C
Contact Signal	Yes
Drain Plug	3/4"



DIMENSIONS	
MGK-33 (Flanged) PN 16	LENGTH (mm)
DN15 DN20 DN25	300 all sizes are available in between 3000



* Please contact our sales team for our bigger lengths.

MG-33 MAGNETIC LEVEL GAUGE

APPLICATION AREAS

Steam boilers
All liquid tanks
Chemical industry
LPG tanks, underground tanks
Marine applications

PRODUCT FEATURES

Body	Stainless Steel AISI 316
Float	Stainless Steel AISI 316L
Magnetic Disc	Plastic
Flange Material	Carbon Steel St. 37.2 (Opt. Stainless Steel)
Connections	Flange
Max. Operating Pressure	16 bar
Max. Permissible Temperature	160 °C
Contact Signal	Yes
Drain Plug	3/4"
Tahliye Tapası	3/4"
Protection Class	IP66

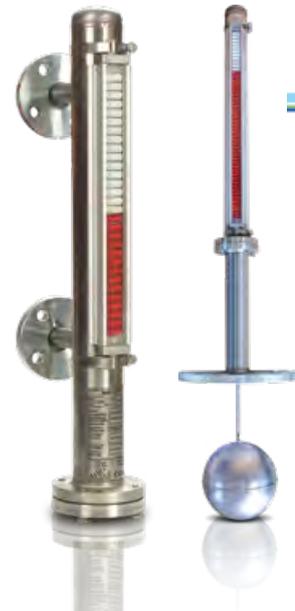
EG-11 2R Panel



MG-33 Panel



Float



DIMENSIONS	
MG-33 (Flanged) PN 16	LENGTH (mm)
DN15 DN20 DN25	300 all sizes are available in between 3000



* Please contact our sales team for our bigger lengths.

LEVEL CONTROLLER EQUIPMENT

MG-33P MAGNETIC LEVEL GAUGE (PVC)

APPLICATION AREAS

Marine applications
All liquid tanks
Chemical industry
Condensing tanks
Acid tanks

PRODUCT FEATURES

Body and Float	PVC
Magnetic Disc	Plastic
Flange Material	PP-V
Connections	Flange
Max. Operating Pressure	6 bar
Max. Permissible Temperature	60 °C
Contact Signal	Yes



* Please contact our sales team for our bigger lengths.



DIMENSIONS	
MG-33P (Flanged) PN 6	LENGTH (mm)
DN20	300 all sizes are available in between 3000

LEVEL GAUGES

MG-33S MAGNETIC LEVEL GAUGE

APPLICATION AREAS

Steam boilers
All liquid tanks
Chemical industry
LPG tanks, underground tanks
Marine applications

PRODUCT FEATURES

Body	Stainless Steel AISI 316
Float	Stainless Steel AISI 316L
Magnetic Disc	Plastic
Flange Material	Carbon Steel St. 37.2 (Opt. Stainless Steel)
Connections	Flange
Max. Operating Pressure	10 bar
Max. Permissible Temperature	160 °C
Contact Signal	No
Drain Plug	3/8"
Protection Class	IP66



* Please contact our sales team for our bigger lengths.



DIMENSIONS	
MG-33S (Flanged) PN 10	LENGTH (mm)
DN20	300 all sizes are available in between 3000

LEVEL CONTROLLER EQUIPMENT

MG-33SC MAGNETIC LEVEL GAUGE WITH SCALE

APPLICATION AREAS

Steam boilers
All liquid tanks
Chemical industry
LPG tanks, underground tanks
Marine applications

PRODUCT FEATURES

Body	Stainless Steel AISI 316
Float	Stainless Steel AISI 316L
Magnetic Disc	Plastic
Flange Material	Carbon Steel St. 37.2 (Opt. Stainless Steel)
Connections	Flange
Max. Operating Pressure	10 bar
Max. Permissible Temperature	160 °C
Contact Signal	No
Drain Plug	3/8"



* Please contact our sales team for our bigger lengths.

DIMENSIONS	
MG-33SC (Flanged) PN 10	LENGTH (mm)
DN20	300 all sizes are available in between 3000

AELD-11 LEVEL INDICATOR GAUGE

APPLICATION AREAS

Liquid tanks
Chemical industry
Marine applications
Low temp & pressure applications

PRODUCT FEATURES

Connection Material	Steel AISI 316
Tube Material	Glass or Plexiglass
Max. Operating Pressure	5 bar
Max. Permissible Temperature	100 °C



* Please contact our sales team for our bigger lengths.

DIMENSIONS
Threaded
1/2" - 3/4" BSP

LEVEL CONTROLLER EQUIPMENT

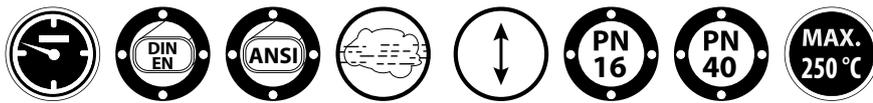
RC-11 LEVEL GAUGE WITH SIGHT GLASS

APPLICATION AREAS

Steam boilers
Pre heating tanks
Chemical applications

PRODUCT FEATURES

Body	Cast Iron GG-25
Frame	A105
Drain Plug and Liquid main Body	Cast Iron GG-25
Connections	Flange
Max. Operating Pressure	16 bar/40 bar
Max. Operating Temperature	250 °C



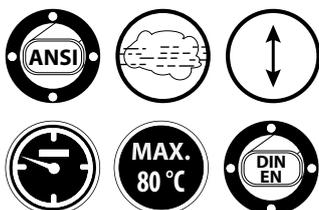
* Please contact our sales team for our bigger lengths.

DIMENSIONS	
RC-11 (Flanged) PN 16, PN 40	LENGTH (mm)
DN20	300 all sizes are available in between 3000

BI-STABLE/MONOSTABLE SWITCH

PRODUCT FEATURES

Supply Voltage	250V
Current Capacity	0.5A / 1A
Switch Capacity	60VA AC MAX / 30VA DC MAX
Operating Temperature	-10 + 80 °C



* Please contact our sales team for our bigger lengths.

PRINCIPLES	
Bi-Stable	Sealed
Mono-Stable	Momentary Action

LEVEL CONTROLLER EQUIPMENT

EG-11 DIGITAL LEVEL SENSING ELEMENT

APPLICATION AREAS

Ship building
Waste/pure water tanks
Food industry
Acid tanks
Fuel tanks
Chemical and petrochemical tanks

PRODUCT FEATURES

Body and Float	Stainless Steel AISI 304
Supply Voltage	220 VAC (24 V optional)
Flange Material	Carbon Steel St. 37.2/Stainless Steel
Max. Permissible Temperature	-10/+125 °C
Analog Output	4-20 mA or (0-10V)
Max. Operating Pressure	16 bar
Connections	Flange, BSP or NPT Threaded
Accessories	Control Panel and D.Display
Protection Class	IP66



* Please contact our sales team for our bigger lengths.



DIMENSIONS		
(mm)	EG 11(Flanged) PN 10	LENGTH (mm)
2"	DN50 DN100	300 all sizes are available in between 3000

AU-20 ANALOGUE LEVEL SENSING ELEMENT

APPLICATION AREAS

Ship building
Waste/pure water tanks
Food industry
Acid tanks
Fuel tanks
Chemical and petrochemical tanks

PRODUCT FEATURES

Body and Float	Stainless Steel AISI 304
Max. Permissible Temperature	-10/+125 °C
Flange Material	Carbon Steel St. 37.2/ Stainless Steel
Max. Switch Voltage	400 VAC/DC
Max. Operating Pressure	16 bar
Connections	Flange, BSP or NPT Threaded
Accessories	Control Panel with 4 contacts
Contact Types	N.O (Normally Open) C.O (Change Over)
Switch Capacity	N.O 60 VA 3,0 VA
Protection Class	IP68



* Please contact our sales team for our bigger lengths.



DIMENSIONS
Threaded
3/8" - BSP/NPT

LEVEL CONTROLLER EQUIPMENT

AU-21 ANALOGUE LEVEL SENSING ELEMENT

APPLICATION AREAS

- Ship building
- Waste/pure water tanks
- Food industry
- Acid tanks
- Fuel tanks
- Chemical and petrochemical tanks

PRODUCT FEATURES

Body and Float	Stainless Steel AISI 304
Max. Permissible Temperature	-10/+125 °C
Max. Switch Voltage	400 VAC/DC
Max. Operating Pressure	16 bar
Connections	3/8" Threaded
Min Density	0.8 kg/m³
Contact Types	N.O (Normally Open) C.O (Change Over)
Switch Capacity	60 VA
Switch Circuit	1.0 VA
Protection Class	IP68



* Please contact our sales team for our bigger lengths.

AU-22 ANALOGUE LEVEL SENSING ELEMENT

APPLICATION AREAS

- Ship building
- Waste/pure water tanks
- Food industry
- Acid tanks
- Fuel tanks
- Chemical and petrochemical tanks

PRODUCT FEATURES

Body and Float	Stainless Steel AISI 304
Max. Permissible Temperature	-10/+125 °C
Flange Material	Carbon Steel St. 37.2/Stainless Steel
Max. Switch Voltage	400 VAC/DC
Max. Operating Pressure	16 bar
Connections	Flange, BSP or NPT Threaded
Accessories	Control Panel with 4 contacts
Contact Types	N.O (Normally Open) C.O (Change Over)
Switch Capacity	N.O 60 VA C.O 60 VA
Switch Circuit	N.O 3.0 VA C.O 1.0 VA
Contact Quantity	N.O 6 max C.O 2 max
Protection Class	IP66



* Please contact our sales team for our bigger lengths.



DIMENSIONS	
AU-22 (Threaded) BSP or NPT	LENGTH (mm)
3/8"	300 all sizes are available in between 3000



AU-22 (Threaded) BSP or NPT	TH (mm)	
2"	DN50 DN100	300 all sizes are available in between 3000

LEVEL CONTROLLER EQUIPMENT

C-4 FLOAT SWITCH

APPLICATION AREAS

Water storage tanks
Waste water tanks
Ship Building
Fuel tanks
Small boilers
Condensate tanks
Chemical storage vessels

PRODUCT FEATURES

Float	Stainless Steel AISI 316L
Connections	Square Flange
Flange Material	Carbon Steel St. 37.2/Stainless Steel
Shaft	Aluminium Injection
Micro switches	16A (Normally open or closed)
Max. Operating Pressure	6/16 bar
Max. Operating Temperature	-20/+150 °C
Protection Class	IP66



DIMENSIONS	
C-4 Square Flange (mm)	LENGTH (mm)
94x94x15	From flange to the end of the float 250 mm



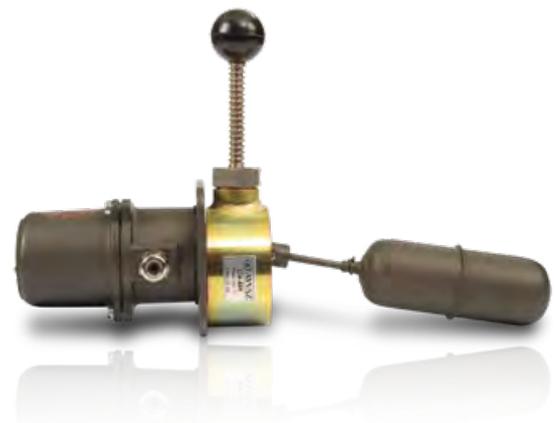
C-4 FLOAT SWITCH WITH CONTROL UNIT

APPLICATION AREAS

Water storage tanks
Waste water tanks
Ship building
Fuel tanks
Small boilers
Condensate tanks
Chemical storage vessels

PRODUCT FEATURES

Float	Teflon Coated Stainless Steel
Connections	Square Flange
Flange Material	Carbon Steel St. 37.2/Stainless Steel
Shaft	Aluminium Injection
Micro switches	16A (Normally open or closed)
Max. Operating Pressure	6 bar
Max. Operating Temperature	-20/+150 °C



DIMENSIONS	
C-4 Square Flange (mm)	LENGTH (mm)
94x94x15	From flange to the end of the float 250 mm



LEVEL CONTROLLER EQUIPMENT

SMART/MAC-5 IMMERSED TILTING LEVEL SWITCH

APPLICATION AREAS

Fish ponds
Swimming pools
Groundwater
Waste water pools
Treatment pools
Plunger pump applications
Hydrophors
Residential water tanks

PRODUCT FEATURES

Float	PP
Cable Diameter	10mm PVC 3x1mm
Voltage	250 VAC 50 Hz
Max. Working Pressure	10 bar
Working Temperature	-25/+60 °C
Protection Class	IP68
Contact	10A-250 VAC NO/NC
Adjustable Distance	750mm

SMART
For Fresh Water



MAC-5
For Waste Water



LENGTH (m)	
SMART	5-10
MAC 5	10

AYVAZ ALL-IN-ONE PLC CONTROL BOARD

PRODUCT FEATURES

Screen	10.4" Touch Screen 65K Colored (800x600px) Multilayered Elements, Animations, Built-in Speaker, Internal Trends, Pid, Data Tables, Data Sampling, Move-Drop Interface.
Uni Apps	Obtaining, changing, displaying, troubleshooting etc.
I/O	Digital and Analog RS485, CAN open, Uni CAN, Ethernet, MODBUS communication options Remote access from computers, tablets, smartphones etc.
Protection Class	IP65



AK-100 FLOW SWITCH

APPLICATION AREAS

Heating systems
Air conditioning
Cooling lines
Oil circuits

PRODUCT FEATURES

Sheet Body	Stainless Steel
Cover	ABS
Gasket	NBR
Fittings Type	Female 1"
Fittings Material	Brass MS 56
Max. Liquid Pressure	11 bar
Max. Liquid Temperature	-30/+120 °C
Micro Switches	15 (8) A-220V



DIMENSIONS	
AK-100 Threaded	Quantity of Adjustment Plates
1"	5 adet



LEVEL CONTROLLER EQUIPMENT



ROD LEVEL SWITCH

APPLICATION AREAS

Water tanks
Sewreage Water tanks
Ship Building
Fuel Tanks
Small Steam Boilers
Condensate Tanks
Chemical tanks

PRODUCT FEATURES

Body & Float	AISI 304 Stainless Steel
Operating Temperature	-10 / +125 °C
Max. Switch Stress	220 VAC/DC
Max. Operating Pressure	10 bar
Connection	1" Outer Threaded
Min. Density	0.7 kg/m ³
Contact Type	N.O, C.O
Float Diameter	28 mm.
Electricity Connections	Socket



ROD LEVEL SWITCH

APPLICATION AREAS

Water tanks
Sewreage Water tanks
Ship Building
Fuel Tanks
Small Steam Boilers
Condensate Tanks
Chemical tanks

PRODUCT FEATURES

Pipe	Brass
Float	Polyurethane
Operating Temperature	-10 / +125 °C
Max. Switch Stress	220 VAC/DC
Max. Operating Pressure	10 bar
Connection	1" Outer Threaded
Min. Density	0.7 kg/m ³
Contact Type	N.O, C.O
Float Diameter	28 mm.
Electricity Connections	Socket



C-5 MINI LEVEL SWITCH

PRODUCT FEATURES

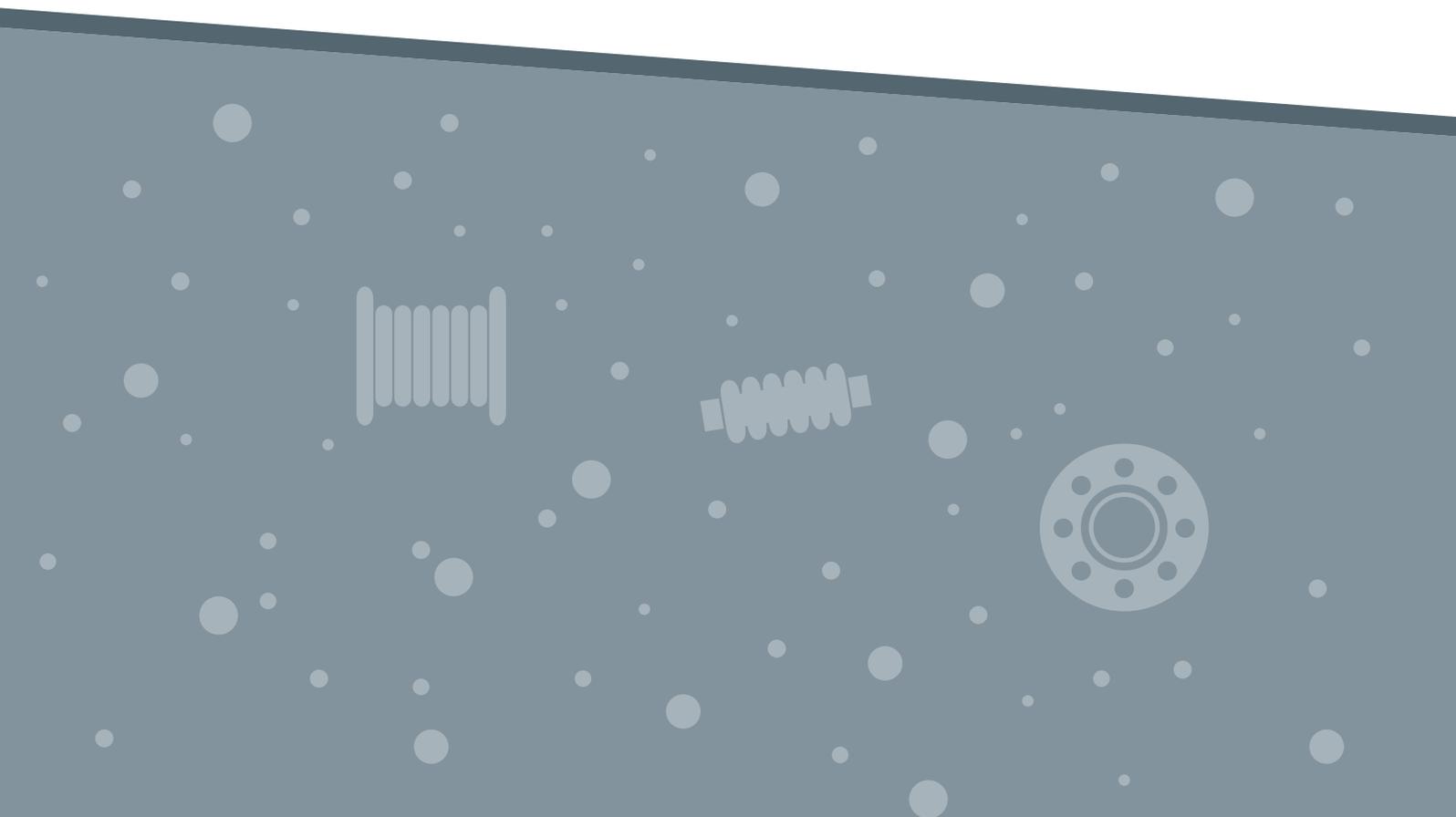
Body & Float	AISI 304 Stainless Steel
Operating Temperature	-10 / +125 °C
Max. Switch Stress	220 VAC/DC
Max. Operating Pressure	5 bar
Connection	1/2" Outer Threaded
Min. Density	0.7 kg/m ³
Contact Type	N.O, C.O
Installation	Horizontal
Electricity Connections	Socket



MARINE PRODUCTS

CHAPTER II

EXPANSION JOINTS FLEXIBLE METAL HOSES



EXPANSION JOINTS

AXIAL METAL BELLOWED EXPANSION JOINTS

APPLICATION AREAS

Exhaust gas line, steam pressure lines and water line

PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321 (Opt. 304, 316, 316L)
Nominal Diameter	DN 25 (1") - DN 1200 (48")
Operating Pressure	PN 2,5/6/16/25/40/64
Operating Temperature	-10 °C / +600 °C
Connection Types	Fixed & Floating Flanged
Connection Material	St 37.2 as standard (Stainless Steel is Optional)
Optional	AISI 321 Stainless Steel Inner Sleeve (Opt. 316L, 316Ti, 309)



BUREAU VERITAS APPROVED EXPANSION JOINTS (mm) LENGTHS				
Sizes	PN 2,5 (+10/-20) FLOATING FLANGE	PN 6 (+10/-20) FLOATING FLANGE	PN 10 (+10/-20) FLOATING FLANGE	PN 16 (+10/- 20) FLOATING FLANGE
DN 25	125	135	140	140
DN 32	100	120	130	130
DN 40	110	135	140	140
DN 50	110	115	120	120
DN 65	95	110	120	120
DN 80	120	140	145	145
DN 100	110	120	130	135
DN 125	120	130	135	145
DN 150	175	175	145	160
DN 200	180	180	145	145
DN 250	170	180	205	235
DN 300	190	190	220	235
DN 350	200	200	160	170
DN 400	205	205	165	
DN 450	210	205	165	
DN 500	210	205	165	
DN 600	220	225	260	
DN 700	220	225	185	
DN 800	240	245	185	
DN 900	245			
DN 1000	245			
DN 1200	250			

TÜRK LOYDU APPROVED EXPANSION JOINTS L (mm) LENGTHS					
Sizes	PN 2,5 (+20/-40) RF	PN 6 (+20/-40) RF	PN 16 (+20/-40) RF	PN 6 (+10/-20) RF	PN 16 (+10/-20) RF
DN 25					
DN 32					
DN 40					
DN 50					
DN 65	170				
DN 80	200				190
DN 100	260	280		185	165
DN 125	235	240		210	180
DN 150	255	260		195	220
DN 200	260	265		200	255
DN 250	215	280	315	200	215
DN 300	230	270	310	200	250
DN 350	250	290	340	215	250
DN 400	230	300		215	
DN 450	235	305		245	
DN 500	290	325		220	
DN 600	265	340		245	
DN 700	265	340		245	
DN 800	265	340		245	
DN 900	270				
DN 1000	270				
DN 1200	315				

EXPANSION JOINTS

SQUARE FLANGED EXPANSION JOINTS

APPLICATION AREAS

Pumps, motors, machines, compressors
Reduces the thermal and mechanical stress
For 3D (All plates) movement absorption
For absorbing vibration and noise

PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321 (Opt. 304, 316, 316L)
Nominal Diameter	DN25 (1") – DN 1200 (48")
Operating Pressure	10 bar
Operating Temperature	-10 °C / +600 °C
Connection Type	Fixed & Rotating Flanged
Connection Material	St 37.2 as standard (Stainless Steel is Optional)



RUBBER EXPANSION JOINT LKA-10

APPLICATION AREAS

Reduces the thermal and mechanical stress
Pumps, motors, machines, compressors
For 3D (All plates) movement absorption
For absorbing vibration and noise

PRODUCT FEATURES

Rubber Material	EPDM
Nominal Diameter	DN32 (1 1/4") - DN600 (24")
Operating Pressure	10 bar
Operating Temperature	Max. 90 °C
Connection	Floating Flange
Connection Material	Malleable Iron GGG 40.3



RUBBER EXPANSION JOINT DKK-10

APPLICATION AREAS

Reduces the thermal and mechanical stress
Pumps, motors, machines, compressors
For 3D (All plates) movement absorption
For absorbing vibration and noise

PRODUCT FEATURES

Rubber Material	Special Synthetic Rubber
Nominal Diameter	DN 20 (3/4") - DN100 (4")
Operating Pressure	10 bar
Operating Temperature	Max. 90 °C
Connection	Threaded
Connection Material	Cast Iron



FLEXIBLE METAL HOSES

BRAIDED AND NON-BRAIDED HOSES WITHOUT FITTINGS



APPLICATION AREAS

Heating, air conditioning and ventilation applications
 Chemical and petrochemical plants
 Ship building and drilling
 Oil and gas processing
 Food processing

PRODUCT FEATURES

Hose Type Standard and open pitch corrugated metal hose
 Hose Material Stainless Steel AISI 316L (Optional AISI 304, 321)
 Braiding Material Stainless Steel AISI 304



		DN	LENGTH (m)
HOSE DIMENSIONS	COIL	6-25	50
		25-50	100
		50-150	10
	BOBBIN	12	1000
		16	700
		20	450
25		350	

AYVAZ STANDARD CORRUGATED METAL HOSE NON-BRAIDED/BRAIDED (701.110 / 701.111)								
DN	Model	Internal Diameter	External Diameter	Tolerance	Minimum Bending Radius	Nominal Bending Radius	Max. Operating Pressure at 20°C Safety Factor: 3	Nominal Operating Pressure DIN EN ISO 10380 Safety Factor: 4
		mm	mm		mm	rmin (mm)	rn (mm)	
6	701.110	6,3	9,9	0,2	15	80	25	25
	701.111		11		25		100	100
8	701.110	7,7	11,3	0,2	16	120	20	20
	701.111		12,3		32		180	100
10	701.110	10,1	14,4	0,2	18	130	16	16
	701.111		15,5		38		140	100
12	701.110	12,2	16,8	0,2	20	140	12	10
	701.111		17,5		45		85	65
16	701.110	15,6	20,8	0,2	28	160	8	6
	701.111		22,1		58		90	65
20	701.110	18,8	24,9	0,2	32	170	5	4
	701.111		26,2		70		55	40
25	701.110	24,6	31,3	0,2	40	190	4	4
	701.111		32,7		85		55	50
32	701.110	33,7	41,1	0,2	50	260	3	2,5
	701.111		42,8		105		35	25
40	701.110	42,2	50,7	0,2	60	300	2,5	2,5
	701.111		52,1		130		50	40
50	701.110	51,5	60,4	0,2	70	320	1,5	0,5
	701.111		62,7		160		40	25
65	701.110	66,1	78,2	0,2	115	460	1	0,5
	701.111		81,5		200		32	25
80	701.110	80,7	94,8	0,2	130	660	2	0,5
	701.111		98		240		30	16
100	701.110	99,5	115,4	0,2	160	750	1,5	0,5
	701.111		118,8		290		25	10

OPEN PITCH CORRUGATED HOSE DIMENSIONS								
12	701.140	11,85	15,85	0,2	20	165	21	16
16	701.140	16,5	21,35	0,2	25	195	13	10
20	701.140	21	26,6	0,2	30	225	13	10
25	701.140	25,3	31,7	0,3	35	260	8	6
32	701.140	32,4	39,9	0,3	40	300	5	4

FLEXIBLE METAL HOSES

CUSTOM MADE HOSES

APPLICATION AREAS

Heating, air conditioning and ventilization applications
Chemical and petrochemical plants
Ship building and drilling
Oil and gas processing
Food processing

PRODUCT FEATURES

Hose Type	Standard and open pitch corrugated metal hose
Hose Material	Stainless SteelAISI 316L (Optional AISI 304, 321)
Braiding Material	Stainless SteelAISI 304





MARINE PRODUCTS



CHAPTER III

VALVES



VALVES

GLOBE VALVES GV-16, GV-25, GV-40

APPLICATION AREAS

Hot-cold water systems
 Steam-boiler systems
 Compressed air systems
 Chemical Fluids (Non-acidic and non-alkali fluids)
 Transfer oil, amoniac pipelines

DIMENSIONS	FLANGED (DN)
	DN15 all sizes are available in between DN400



		GV-16	GV-25	GV-40
FEATURES	Body	GG-25 Cast Iron	GGG 40.3 Ductile Iron	GSC-25 Cast Steel
	Seat	Stainless Steel AISI 304	Stainless Steel AISI 304	Stainless Steel AISI 304
	Disc	Stainless Steel AISI 304	Stainless Steel AISI 304	Stainless Steel AISI 304
	Connection	Flanged	Flanged	Flanged
	Max. Operating Temperature	200 °C	250 °C	300 °C
	Max. Working Pressure	16 bar	25 bar	40 bar

BELLOW SEAL VALVES MK-16, MK-25, MK-40

APPLICATION AREAS

Hot-cold water systems
 Steam-boiler systems
 Compressed air systems
 Chemical Fluids (Non-acidic and non-alkali fluids)
 Transfer oil, amoniac pipelines

DIMENSIONS	FLANGED (DN)
	DN15 all sizes are available in between DN400



		MK-16	MK-25	MK-40
FEATURES	Body	Grey Cast Iron	Nodular Cast Iron	Cast Steel
	Seat	X12Cr13	Stainless Steel AISI 304	Stainless Steel AISI 316
	Disc	X12Cr13	Stainless Steel AISI 304	Stainless Steel AISI 316
	Connection	Flanged	Flanged	Flanged
	Max. Operating Temperature	200 °C	250 °C	300 °C
	Max. Working Pressure	16 bar	25 bar	40 bar

SK-120 BRASS VALVE FOR WATER

APPLICATION AREAS

Water supply and distribution
 Heating, air-conditioning systems
 Food industry chemical industry
 Ship building
 Paper mills

PRODUCT FEATURES	
Body Material	Brass Ms58
Ball Material	Ni Coated Brass
Gasket	NBR
Hand Lever	St 37
Connection Type	Threaded
Nominal Pressure(PN)	16 bar
Max. Operating Temperature	80 °C



DIMENSIONS	Threaded (inch)
	1/2" all sizes available in between 2"

VALVES

ÇV-10/P/S1-S2 WAFER TYPE DISCO CHECK VALVES

APPLICATION AREAS

Heating, air cooling pipelines
 Wood-working, pulp and paper industry
 Iron and steel industry
 Textile Industry
 Ship building



	PRODUCT FEATURES		
	ÇV-10P	ÇV-10S1	ÇV-10S2
Body Material	Brass Ms58	Stainless Steel AISI 304	Stainless Steel AISI 316
Disc Material	Stainless Steel	Stainless Steel AISI 304	Stainless Steel AISI 316
Centering Hoop	Stainless Steel	Stainless Steel AISI 304	Stainless Steel AISI 316
Spring Material	Stainless Steel	Stainless Steel AISI 304	Stainless Steel AISI 316
O-ring	-	-	-
Connection Type	Wafer Type	Wafer Type	Wafer Type
Nominal Pressure (PN)	16 bar	40 bar	40 bar
Min. Allowable Temperature	-10 °C	-10 °C	-10 °C
Max. Operating Temperature	250 °C	300 °C	300 °C

Product Dimensions and Opening Pressures (m bar)				
DN (mm)	No Spring		With Spring	
	↑	↑	→	↓
15	2,5	25	22,5	20
20	2,5	25	22,5	20
25	2,5	25	22,5	20
32	3,5	27	23,5	20
40	4	28	24	20
50	4,5	29	24,5	20
65	5	30	25	20
80	5,5	31	25,5	20
100	6,5	33	26,5	20

* Only CV-10S2 type checkvalve is suitable for drinking water applications

ÇV-11/S1-S2 WAFER TYPE DISCO CHECK VALVES

APPLICATION AREAS

Heating, air cooling pipelines
 Wood-working, pulp and paper industry
 Iron and steel industry
 Textile Industry
 Ship building



	PRODUCT FEATURES		
	ÇV-11	ÇV-11S1	ÇV-11S2
Body Material	Cast Iron GG25	Stainless Steel AISI 304	Stainless Steel AISI 316
Disc Material	Cast Iron GG25	Stainless Steel AISI 304	Stainless Steel AISI 316
Centering Part	Stainless Steel	Stainless Steel AISI 304	Stainless Steel AISI 316
Spring Material	Stainless Steel	Stainless Steel AISI 304	Stainless Steel AISI 304
O-ring	EPDM	-	-
Connection Type	Wafer Type	Wafer Type	Wafer Type
Nominal Pressure (PN)	16 bar	40 bar	40 bar
Min. Allowable Temp	-10 °C	-10 °C	-10 °C
Max. Operating Temperature	250 °C	300 °C	300 °C

DN (mm)	No Spring	With Spring		
	↑	↑	→	↓
125	10,5	31	20,5	10
150	11,5	33	21,5	10
200	11,2	32,4	21,2	10

DN (mm)	No Spring	With Spring		
	↑	↑	→	↓
125	12	34	22	10
150	13,5	37	23,5	10
200	16	42	26	10
250	15,3	46,9	31,5	16

* Only CV-11S2 type checkvalve is suitable for drinking water applications

VALVES

CV-20/25 DOUBLE PLATE CHECK VALVES

APPLICATION AREAS

HVAC systems
 Plumbing/sanitary services
 Fire protection lines
 Irrigation systems
 Marine mechanical and cooling systems



		ÇV-20	ÇV-25
PRODUCT FEATURES	Body Material	Cast Iron GG25	Cast Iron GG25
	Disc Material	Stainless Steel AISI 316	Nickel Plated GGG 40
	Resilient Seat	EPDM	EPDM
	Spring Material	Stainless Steel AISI 304	Stainless Steel AISI 304
	Disc Bearing	Teflon	Teflon
	Connection Type	Wafer Type	Wafer Type
	Nominal Pressure (PN)	10/16 bar	10/16 bar
	Min. Allowable Temp	-10 °C	-10 °C
	Max. Operating Temperature	110 °C	110 °C



DIMENSIONS CV-20/25	FLANGED (DN)	PN
	DN50 all sizes available in between DN300	16
DN350 all sizes available in between DN600	10	

CV-30/33/35 WAFER TYPE SWING CHECK VALVES

APPLICATION AREAS

Water supply and distribution lines
 Paper mills and plant processes
 Ship building
 Industrial applications
 Marine mechanical and cooling systems



		ÇV-30	ÇV-33	ÇV-35
PRODUCT FEATURES CV-3033/3/35	Body Material	Stainless Steel AISI 316	CF8M	Ni Coated Carbon Steel
	Disc Material	Stainless Steel AISI 316	CF8M	Ni Coated Carbon Steel
	Disc Bearing	Stainless Steel 316	Stainless Steel 316	Ni Coated Carbon Steel
	Eye Bolt	Stainless Steel AISI 316	Stainless Steel 304	Ni Coated Carbon Steel
	O-ring	EPDM	Viton	EPDM
	Connection Type	Flanged	Flanged	Flanged
	Nominal Pressure (PN)	16 bar	16 bar	16 bar
	Min. Allowable Temperature	-10 °C	-10 °C	-10 °C
	Max. Operating Temperature	100 °C	100 °C	100 °C



DIMENSIONS	FLANGED (DN)
	DN32 all sizes available in between DN300

VALVES

CLV-50 LIFT TYPE CHECK VALVES

APPLICATION AREAS

Steam lines, boiler applications
Hot and cold water applications
Non-acidic liquids
Chemical Liquids
Compressed air



PRODUCT FEATURES	
Body Material	GG-25 Cast Iron
Cover	GG-25 Cast Iron
Disc Material	Stainless Steel AISI 304
Spring Material	Stainless Steel AISI 304
Gasket	CrNi laminated pure graphite
Connection Type	Flanged
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	180 °C

DIMENSIONS	FLANGED (DN)
	DN15 all sizes available in between DN300

SC-200 SWING TYPE CHECK VALVE

APPLICATION AREAS

Water and condensate lines
Heating, air-conditioning systems
Waterworks
Plant processes
Paper mills



PRODUCT FEATURES		
Body Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Disc Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Pipe Plug	Stainless Steel AISI 304	Stainless Steel AISI 316
Picking Material	PTFE	PTFE
Connection Type	Threaded	Threaded
Nominal Pressure (PN)	16 bar	16 bar
Max. Operating Temperature	180 °C	180 °C

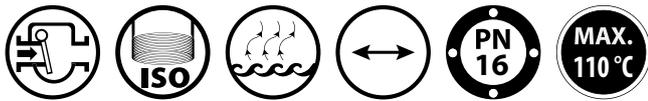
DIMENSIONS	Threaded (inch)
	1/2" all sizes available in between 2"

VALVES

SC-400 SWING TYPE CHECK VALVE

APPLICATION AREAS

Heating, air-conditioning systems
 Waterworks
 Air pipelines
 Natural gas pipelines
 Paper mills



PRODUCT FEATURES	
Body Material	Brass Ms58
Bonnet	Brass Ms58
Baffle	Brass Ms58
Washer	PTFE/NBR
Connection Type	Threaded
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	110 °C

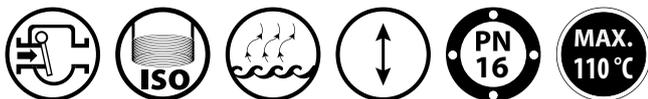


DIMENSIONS	Threaded (inch)
	1/2" all sizes available in between 2"

SC-600 SWING TYPE CHECK VALVE

APPLICATION AREAS

Heating, air-conditioning systems
 Waterworks
 Air pipelines
 Natural gas pipelines
 Paper mills



PRODUCT FEATURES	
Body Material	Brass Ms58
Bonnet	Brass Ms58
Spring	Stainless Steel
Washer	ABS/NBR
Connection Type	Threaded
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	110 °C



DIMENSIONS	Threaded (inch)
	1/2" all sizes available in between 2"

VALVES

PTY-30 STRAINER

APPLICATION AREAS

Steam lines
Hot and cold water distribution lines
Compressed air pipelines
Gas, oil pipelines
Chemical fluids distribution lines



PRODUCT FEATURES	
Body Material	Ductile Iron GGG 40
Gasket	Graphite
Strainer	Stainless Steel AISI 304
Filter	Stainless Steel AISI 304
Connection Type	Flanged
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	200 °C



DIMENSIONS	FLANGED (DN)
	DN15 all sizes available in between DN600

PTY-40 STRAINER STRAINER FOR STEAM

APPLICATION AREAS

Steam lines
Hot and cold water distribution lines
Compressed air pipelines
Gas, oil pipelines
Chemical fluids distribution lines



PRODUCT FEATURES	
Body Material	Ductile Iron GGG 40
Gasket	Graphite
Strainer	Stainless Steel AISI 304
Filter	Stainless Steel AISI 304
Connection Type	Flanged
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	200 °C



DIMENSIONS	FLANGED (DN)
	DN15 all sizes available in between DN600

YS-800 STRAINER FOR LIQUIDS

APPLICATION AREAS

Steam, water, hot water LPG
Compressed air Oil and gases
Chemical liquids



PRODUCT FEATURES		
Body Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Screen	Stainless Steel AISI 304	Stainless Steel AISI 316
Cap	Stainless Steel AISI 304	Stainless Steel AISI 316
Gasket	PTFE	PTFE
Connection Type	Threaded	Threaded
Nominal Pressure (PN)	40 bar	40 bar
Max. Operating Temperature	180 °C	180 °C

DIMENSIONS	Threaded (inch)
	1/2" all sizes available in between 2"

VALVES

V-2T STAINLESS STEEL BALL VALVE

APPLICATION AREAS

Food industry
 Chemical plants
 Heating, air-conditioning systems
 Ship building
 Paper mills



PRODUCT FEATURES		
Body Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Ball Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Body Gasket	PTFE	PTFE
Ball Seat	R-PTFE (15%)	R-PTFE (15%)
Connection Type	Threaded	Threaded
Nominal Pressure (PN)	63 bar	63 bar
Max. Operating Temperature	-50/+210 °C	-50/+210 °C

DIMENSIONS	Threaded (inch)
	1/4" all sizes available in between 4"

V-3T STAINLESS STEEL BALL VALVE

APPLICATION AREAS

Food industry
 Chemical plants
 Heating, air-conditioning systems
 Ship building
 Paper mills



PRODUCT FEATURES		
Body Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Ball Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Body Gasket	PTFE	PTFE
Ball Seat	R-PTFE (15%)	R-PTFE (15%)
Connection Type	Threaded	Threaded
Nominal Pressure (PN)	40 bar	40 bar
Max. Operating Temperature	-50/+210 °C	-50/+210 °C

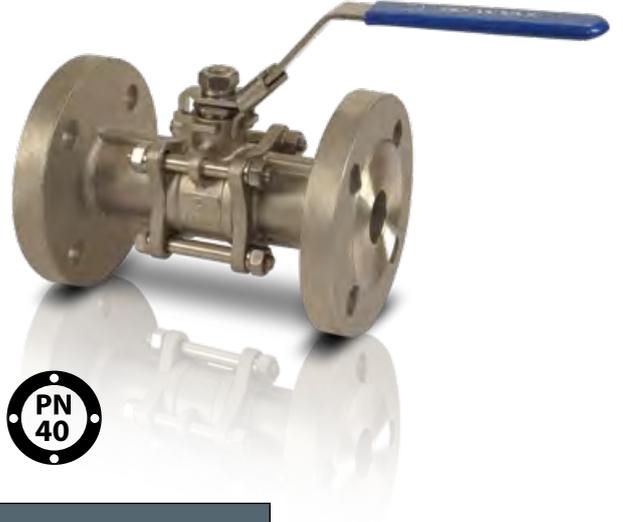
DIMENSIONS	Threaded (inch)
	1/2" all sizes available in between 4"

VALVES

V-3F STAINLESS STEEL BALL VALVE

APPLICATION AREAS

Food industry
Chemical plants
Heating, air-conditioning systems
Ship building
Paper mills



PRODUCT FEATURES		
Body Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Ball Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Body Gasket	PTFE	PTFE
Ball Seat	R-PTFE (15%)	R-PTFE (15%)
Connection Type	Flanged	Flanged
Nominal Pressure (PN)	40 bar	40 bar
Max. Operating Temperature	-50/+210 °C	-50/+210 °C

DIMENSIONS	Flanged (DN)
	DN15 ile DN100 arasındaki ölçüler için geçerlidir.

V-3TP BALL VALVE WITH MOUNTING PAD

APPLICATION AREAS

Food industry
Chemical plants
Heating, air-conditioning systems
Ship building
Paper mills



PRODUCT FEATURES		
Body Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Ball Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Body Gasket	PTFE	PTFE
Ball Seat	R-PTFE (15%)	R-PTFE (15%)
Connection Type	Threaded	Threaded
Nominal Pressure (PN)	40 bar	40 bar
Max. Operating Temperature	-50/+210 °C	-50/+210 °C

DIMENSIONS	Threaded (inch)
	1/4" all sizes available in between 4"

VALVES

V-3FP BALL VALVE WITH MOUNTING PAD

APPLICATION AREAS

Food industry
 Chemical plants
 Heating, air-conditioning systems
 Ship building
 Paper mills



PRODUCT FEATURES		
Body Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Ball Material	Stainless Steel AISI 304	Stainless Steel AISI 316
Body Gasket	PTFE	PTFE
Ball Seat	R-PTFE (15%)	R-PTFE (15%)
Connection Type	Flanged	Flanged
Nominal Pressure (PN)	40 bar	40 bar
Max. Operating Temperature	-50/+210 °C	-50/+210 °C

DIMENSIONS	Flanged (DN)
	DN15 all sizes available in between DN100

MBK-45 MONOBLOCK VALVE WATER

APPLICATION AREAS

Water supply and distribution lines
 Hot an cold water applications
 Food industry chemical industry
 Ship building
 Paper mills



PRODUCT FEATURES	
Body Material	Carbon Steel
Ball Material	Stainless Steel AISI 304
Ball Seat	PTFE
Gasket	EPDM
Connection Type	Flanged
Nominal Pressure (PN)	40 bar
Max. Operating Temperature	-40/+110 °C

DIMENSIONS	FLANGED (DN)
	DN15 all sizes available in between DN100

VALVES

KV-3 WAFER TYPE BUTTERFLY VALVE

APPLICATION AREAS

Heating, ventilating and air conditioning systems
 Water treatment and distributing systems
 Mining industry
 Sugar industry, food and chemistry industries
 Oil and gas process



PRODUCT FEATURES	
Body Material	Cast Iron GG-25
Liner Material	EPDM
Disc Material	Stainless Steel AISI 316
Shaft Material	Stainless Steel AISI 416
Connection Type	Flanged (Wafer Type)
Nominal Pressure (PN)	10/16 bar
Max. Operating Temperature	110 °C

* Please contact our sales team for our bigger lengths.



DIMENSIONS	DN	PN
	DN25 all sizes available in between DN300	16
DN350 all sizes available in between DN600	10 come with worm gear	

KV-4 LUG TYPE BUTTERFLY VALVE

APPLICATION AREAS

Heating, air-conditioning systems
 Water purification system
 Mining industry
 Ship building
 Chemical industry



PRODUCT FEATURES	
Body Material	Cast Iron GG-25
Liner Material	EPDM
Disc Material	Stainless Steel AISI 316
Shaft Material	Stainless Steel AISI 416
Connection Type	Flanged (Lug Type)
Nominal Pressure (PN)	10/16 bar
Max. Operating Temperature	110 °C

* Please contact our sales team for our bigger lengths.



DIMENSIONS	DN	PN
	DN25 all sizes available in between DN300	16
DN350 all sizes available in between DN600	10 come with worm gear	

VALVES

KV-17 WAFER TYPE BUTTERFLY VALVE

APPLICATION AREAS

Heating, ventilating and air conditioning systems, Water treatment and distributing systems, Chemical and petrochemical plants, Sugar industry, food and chemistry industries, Oil and gas process, Fire protection lines

PRODUCT FEATURES	
Body Material	GGG-40.3 Ductile Cast Iron
Gasket	NBR
Disc Material	Aluminium Bronze
Shaft Material	Stainless Steel AISI 420
Connection Type	Wafer
Nominal Pressure (PN)	10/16 bar
Max. Operating Temperature	80 °C



KV-18 LUG TYPE BUTTERFLY VALVE

APPLICATION AREAS

Heating, ventilating and air conditioning systems, Water treatment and distributing systems, Chemical and petrochemical plants, Sugar industry, food and chemistry industries, Oil and gas process, Fire protection lines

PRODUCT FEATURES	
Body Material	GGG-40.3 Ductile Cast Iron
Gasket	NBR
Disc Material	Aluminium Bronze
Shaft Material	Stainless Steel AISI 420
Connection Type	Lug
Nominal Pressure (PN)	10/16 bar
Max. Operating Temperature	80 °C



KV-20 LUG TYPE BUTTERFLY VALVE

APPLICATION AREAS

Heating, ventilating and air conditioning systems, Water treatment and distributing systems, Chemical and petrochemical plants, Sugar industry, food and chemistry industries, Oil and gas process, Fire protection lines

PRODUCT FEATURES	
Body	GGG-40.3 Ductile Cast Iron
Disc	Aluminium Bronze
Stem	AISI 416 Stainless Steel
Gasket	NBR
Max. Working Temperature	90 °C
Working Pressure	PN16 (DN 40-300) / PN10 (DN 350-600)
Flange Pressure Class	PN16



VALVES

NOAH SERIES ELECTRIC ACTUATOR

PRODUCT FEATURES	
Materials	Steel, Aluminium Alloy , All Bronze
Power Supply (60/50 Hz)	110/220 VAC, 1 Phase, 380/440 VAC, 3 Phase
Control Power	110/220 VAC, 1 Phase, 60/50 Hz
Travel Angle	90° ± 5°
Indicator	Continuous Position Indicator
Manual Override	Hand/Auto Declutching Mechanism
Self Locking	Provided by means of Worm Gearing
Mechanical Stops	External Adjustable Screws
Ambient Temperature	-20°C to +70°C, 150°C/1hr
Enclosure	Watertight Ingress Protection 67 Nema 4 and 6



ADR-20 WORM GEAR

USING CONDITIONS

DN150-300 as dimensional reductor
Must be used above DN350

PRODUCT FEATURES	
Body Material	Epoxy coated Ductile Iron GGG 40.3
Diameters	DN25-DN1200
Connection Type	Threaded ISO 5211
Max. Operating Temperature	-20/+70 °C



PAD-20 DOUBLE ACTING PNEUMATIC ACTUATOR

USING CONDITIONS

DN15-100 for Ball Valves
DN25-300 for Butterfly Valves

PRODUCT FEATURES	
Body Material	Epoxy Coated Aluminium Injection
Pistons	Aluminium Cast
Shaft Material	Cadmium Coated Steel
Tightness Component	Nitrile Rubber
Valve Connection	Standard
Connection Type	Threaded ISO 5211
Max. Operating Temperature	-20/+80 °C



EAD-20 ELECTRIC ACTUATORS

PRODUCT FEATURES	
Body Material	Aluminium Alloy
Controlling Power	110/220VAC 1Phase, 50/60 Hz,±10%
Stroke	0°~270°
Shaft Material	Stainless Steel AISI 420
Sealing	IP67/68
Anti-Vibration	XYZ 10g, 0.2~34Hz, 30 minutes
Ambient Temperature	70 °C



VALVES

L9-BP BRONZE THREADED SAFETY VALVES

APPLICATION AREAS

Power plants
Refineries
Petro-chemical industry
Chemical industry
Food processing industry



PRODUCT FEATURES	
Body	Bronze Casting
Seat	Brass Casting
Disc	Brass Casting
Spring	Steel
Stem	Brass
Max. Operating Temperature	-45 °C/+185 °C
Max. Operating Pressure	PN 16
Setting Range	2,1 - 10,5 Bar

PRODUCT FEATURES	
Body	Bronze Casting
Seat	Brass Casting
Disc	Brass Casting
Spring	Steel
Stem	Brass
Max. Operating Temperature	-45 °C/+185 °C
Max. Operating Pressure	PN 25
Setting Range	10,5 - 20 Bar

L9-SP STAINLESS STEEL THREADED SAFETY VALVES

APPLICATION AREAS

Power plants
Refineries
Petro-chemical industry
Chemical industry
Food processing industry



PRODUCT FEATURES	
Body	Stainless Steel AISI 304
Seat	Stainless Steel AISI 304
Disc	Stainless Steel AISI 304
Spring	Stainless Steel AISI 304
Stem	Stainless Steel AISI 304
Lever	Stainless Steel AISI 304
Max. Operating Temperature	-196 °C/+290 °C
Max. Operating Pressure	PN 16
Setting Range	2,1 - 10,5 Bar

PRODUCT FEATURES	
Body	Stainless Steel AISI 304
Seat	Stainless Steel AISI 304
Disc	Stainless Steel AISI 304
Spring	Stainless Steel AISI 304
Stem	Stainless Steel AISI 304
Lever	Stainless Steel AISI 304
Max. Operating Temperature	-196 °C/+290 °C
Max. Operating Pressure	PN 25
Setting Range	10,5 - 20 Bar

VALVES

BKV-100 BRONZE BALL VALVE

APPLICATION AREAS

Sea water connections
Heating air-conditioning systems
Waterworks
Air pipelines
Oil applications

PRODUCT FEATURES	
Body	Bronze (CC491K)
Stem	DZR Brass CW602N
Gland Nut	Brass CW617N
Seat	PTFE
Max. Operating Temperature	170 °C
Nominal Pressure (PN)	20 bar
Connection Type	Threaded



SV-254 BRASS SAFETY VALVE

APPLICATION AREAS

Energy generation
Refineries
Petrochemical industry
Chemical industry
Food industry

PRODUCT FEATURES	
Body	Brass
Seat	EPDM
Connection Type	Threaded
Adjustable Pressure	1-10 bar
Max. Operating Pressure	16 bar
Max. Operating Temperature	130 °C



BDV-247 PRESSURE REDUCING VALVE

APPLICATION AREAS

Energy generation
Refineries
Petrochemical industry
Chemical industry
Food industry

PRODUCT FEATURES	
Body	Ni Coated Brass
Gasket	NBR
Connection Type	Threaded
Adjustable Pressure	0-6 bar
Nominal Pressure	16 bar
Max. Operating Temperature	90 °C



* Available with or without manometer.



MARINE PRODUCTS

CHAPTER IV

STEAM TRAPS
VALVE INSULATION JACKETS
FIRE PROTECTION PRODUCTS



STEAM TRAPS

SK-55LC FLOAT TYPE STEAM TRAPS (WITH SIGHT GLASS)

APPLICATION AREAS

Tanks
Pans
Heat exchangers
Drying cylinders
Ovens

PRODUCT FEATURES

Body and Cover Ductile Iron GGG 40.3
Internals and float Stainless Steel AISI 304
Connection Types Flanged and threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO) 16 bar
Max. Operating Temperature (TMO) 250 °C
Differential Pressure (ΔP) 4,5-10-14



DIMENSIONS	
FLANGED (DN)	THREADED (inch)
32	1 1/4"
40	1 1/2"
50	2"

SK-51 SLR FLOAT TYPE STEAM TRAPS

APPLICATION AREAS

Tanks
Pans
Heat exchangers
Drying cylinders
Ovens

PRODUCT FEATURES

Body Ductile Iron GGG 40.3
Cover Ductile Iron GGG 40.3
Internals and float Stainless Steel AISI 304
Connection Types Flange and Threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO) 10 bar
Max. Operating Temperature (TMO) 250 °C
Differential Pressure (ΔP) 4,5-10-14



DIMENSIONS	
FLANGED (DN)	THREADED (inch)
15	1 1/4"
20	1 1/2"
25	2"

STEAM TRAPS

SK-50 FLOAT TYPE STEAM TRAPS

APPLICATION AREAS

Tanks
Pans
Heat exchangers
Drying cylinders
Oven

PRODUCT FEATURES

Body and Cover
Internals and float
Connection Types

DN25

Ductile Iron GGG 40.3
Stainless Steel AISI 304
Flanged and threaded

DN32/40/50

Cast Iron GG 25



OPERATING CONDITIONS

Max. Operating Pressure (PMO) 16 bar
Max. Operating Temperature (TMO) 250 °C
Max. Differential Pressure (ΔP) 4,5-10-14



DIMENSIONS	
FLANGED (DN)	THREADED (inch)
25	1"
32	1 1/4"
40	1 1/2"
50	2"

SK-61 FLOAT TYPE STEAM TRAPS

APPLICATION AREAS

Tanks
Pans
Heat exchangers
Drying cylinders
Oven

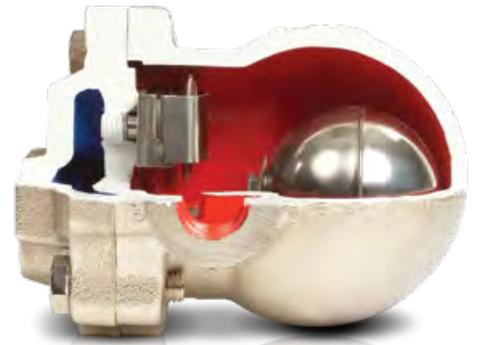
PRODUCT FEATURES

Body and Cover
Internals and float
Connection Types

Stainless Steel AISI 304
Stainless Steel AISI 304
Flanged and threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO) 25 bar
Max. Operating Temperature (TMO) 250 °C
Max. Differential Pressure (ΔP) 4,5-10-14



DIMENSIONS	
FLANGED (DN)	THREADED (inch)
15	1/2"
20	3/4"
25	1"

STEAM TRAPS

TDK-45 THERMODYNAMIC STEAM TRAPS

APPLICATION AREAS

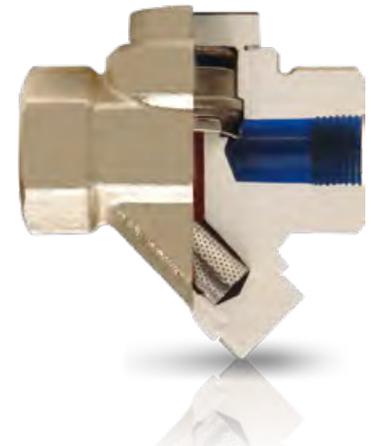
Main steam lines
Turbines
Marine applications
Presses
Irons

PRODUCT FEATURES

Body Forged Steel
Cover Stainless Steel AISI 304
Strainer,disc,seat Stainless Steel AISI 304
Connection Types Flanged, threaded, socket

OPERATING CONDITIONS

Max. Operating Pressure (PMO) 40 bar
Max. Operating Temperature (TMO) 400 °C



DIMENSIONS	
FLANGED (DN)	THREADED AND Socket (inch)
15	1/2"
20	3/4"
25	1"

VK-70 VACUUM BREAKERS

APPLICATION AREAS

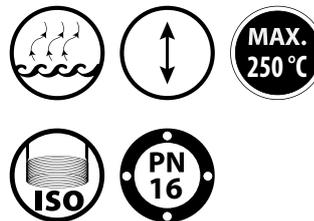
Hydrophores
Boiler feeding lines
Boiler pipes
Container feeding and discharging lines

PRODUCT FEATURES

Body Brass
Cover Brass
Internals Stainless Steel AISI 304
Connections Threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO) 16 bar
Max. Operating Temperature (TMO) 250 °C



DIMENSIONS
THREADED (mm)
1/2"



VK-71 VACUUM BREAKERS

APPLICATION AREAS

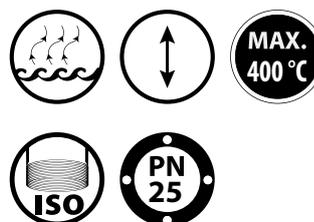
Hydrophores
Boiler feeding lines
Boiler pipes
Container feeding and discharging lines

PRODUCT FEATURES

Body Stainless Steel AISI 304
Cover Stainless Steel AISI 304
Internals Stainless Steel AISI 304
Connections Threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO) 25 bar
Max. Operating Temperature (TMO) 400 °C



DIMENSIONS
THREADED (mm)
1/2"



STEAM TRAPS

HA-51 AIR DRAINER

APPLICATION AREAS

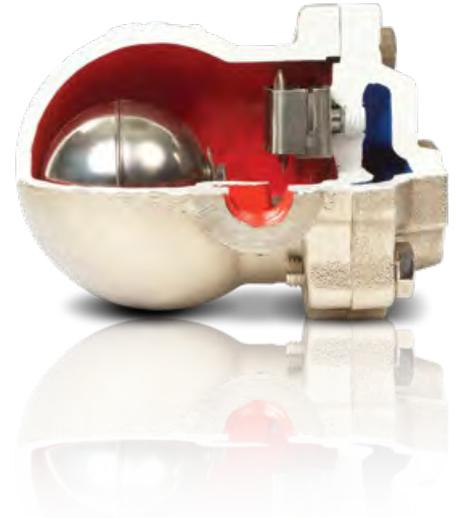
Hot and cold water pipelines
 Water heaters and boilers
 Textile industry
 Unit heaters
 Plywood dryers

PRODUCT FEATURES

Body Ductile Iron GGG 40.3
 Cover Ductile Iron GGG 40.3
 Internals and float Stainless Steel AISI 304
 Connections Flanged and Threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO) 16 bar
 Max. Operating Temperature (TMO) 250 °C



DIMENSIONS	
FLANGED (DN)	THREADED (inch)
15	1/2"
20	3/4"
25	1"

HA-50 AIR DRAINER

APPLICATION AREAS

Hot and cold water pipelines
 Water heaters and boilers
 Textile industry
 Unit heaters
 Plywood dryers

PRODUCT FEATURES

Body Ductile Iron GGG 40.3
 Cover Ductile Iron GGG 40.3
 Internals and float Stainless Steel AISI 304
 Connections Flanged and Threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO) 16 bar
 Max. Operating Temperature (TMO) 250 °C



DIMENSIONS	
FLANGED (DN)	THREADED (inch)
25	1"
32	1 1/4"
40	1 1/2"
50	2"

STEAM TRAPS

SA-51 LIQUID ELIMINATOR

APPLICATION AREAS

Compressor
Heat exchangers
Heating batteries and ovens
Tanks and pans
Drying cylinders

PRODUCT FEATURES

Body	Ductile Iron GGG 40.3
Cover	Ductile Iron GGG 40.3
Internals and float	Stainless Steel AISI 304
Connections	Flanged and Threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO)	16 bar
Max. Operating Temperature (TMO)	250 °C



DIMENSIONS	
FLANGED (DN)	THREADED (inch)
15	1/2"
20	3/4"
25	1"

SA-50 LIQUID ELIMINATOR

APPLICATION AREAS

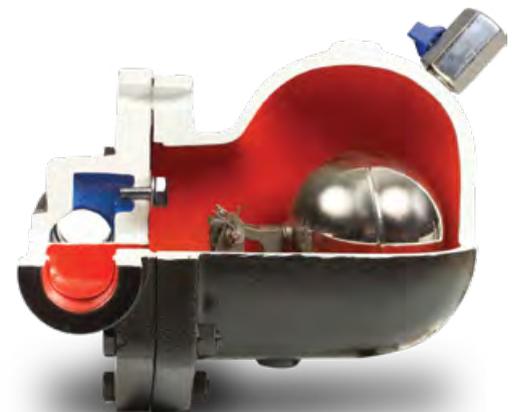
Compressor
Heat exchangers
Heating batteries and ovens
Tanks and pans
Drying cylinders

PRODUCT FEATURES

Body	Ductile Iron GGG 40.3
Cover	Ductile Iron GGG 40.3
Internals and float	Stainless Steel AISI 304
Connections	Flanged and Threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO)	16 bar
Max. Operating Temperature (TMO)	250 °C



DIMENSIONS	
FLANGED (DN)	THREADED (inch)
25	1"
32	1 1/4"
40	1 1/2"
50	2"

VALVE INSULATION JACKETS

VALVE JACKET (AEROGEL INSULATION)

• Pyrogel XT is used for **extremely high temperature applications** up to 650 °C. Pyrogel XT is the most effective high-temperature insulation material in the industrial market.

• Pyrogel XT is especially preferred for the valve and steam trap jackets that are used for the systems where the temperature is above 200 °C.

PRODUCT FEATURES

Fabric	Fibre glass fabric with silicon cover
Insulation	Cryogel X201- Progel XT/XTF
Sewing	Braided fibre glass ropes
Operating Temperature	-273/+650 °C
Thermal Conductivity	0,0138 W/m.K (0°C)



Physical Properties		
Feature	Value	
Thickness	5 mm	10 mm
Operating Temperature Range	-200/+650 °C	
Thermal Conductivity Value At 37.5 °C / ASTM C 177	0.0138 – 0.022 W/m.K	
Density	0,18 g/cm³	
Hydrophobia	Yes	

APPLICATION AREAS

- Hot water and steam lines
- Refineries and gas processing plants
- Petro- chemical plants
- Military establishments
- Food and oil mills
- Textile industry
- Plastic plants
- Oil and gas processing industry
- Pharmaceutical plants



FIRE PROTECTION PRODUCTS

SPRINKLER - UPRIGHT / STANDART RESPONSE – QUICK RESPONSE

UPRIGHT		
Sprinkler Identification Number (Sin)	AZ003	AZ004
Coverage	Standart Coverage	
Response Time Index (Rti)	Standart Response (5mm Glass Bulb)	Quick Response (3mm Glass Bulb)
Size	1/2" npt	
K Factor	5.6 (80)	
Finish	Brass, Chrome	
Operating Temperatures	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F)	
Listings	UL Listed	
Min. Working Pressure	7 PSI (0,5bar)	
Max. Working Pressure	175PSI (12bar)	
Factory Hydrostatic Test Pressure	500 PSI (35 Bar)	



MATERIAL SPECIFICATION			
Frame	Bronze Forging UNS-C87400	Set Screw	Brass UNS-28000
	or Casting DZR	Button	Brass UNS-28000
Deflector	Brass UNS-28000	Spring	Stainless Steel
Glass Bulb	Glass with Glycerin Solution,	Seal	Teflon® Tape
	JOB® G5 or Day-Impex-937 for AZ003/ AZ005		
	JOB® F3 Or Day-Impex-941 for AZ004/ AZ006		

SPRINKLER - PENDENT / STANDART RESPONSE – QUICK RESPONSE

PENDENT		
Sprinkler Identification Number (Sin)	AZ005	AZ006
Coverage	Standart Coverage	
Response Time Index (Rti)	Standart Response (5mm Glass Bulb)	Quick Response (3mm Glass Bulb)
Size	1/2" npt	
K Factor	5.6 (80)	
Finish	Brass, Chrome, White Polyster	
Operating Temperatures	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F)	
Listings	UL Listed	
Min. Working Pressure	7 PSI (0,5bar)	
Max. Working Pressure	175PSI (12bar)	
Factory Hydrostatic Test Pressure	500 PSI (35 Bar)	



MATERIAL SPECIFICATION	
Frame	Bronze Forging UNS-C87400 or Casting DZR
Deflector	Brass UNS-28000
Glass Bulb	Glass with Glycerin Solution,
	JOB® G5 or Day-Impex-937 for AZ003/ AZ005 JOB® F3 Or Day-Impex-941 for AZ004/ AZ006
Set Screw	Brass UNS-28000
Button	Brass UNS-28000
Spring	Stainless Steel
Seal	Teflon® Tape
Standard Escutcheon (Model A-1)	Cold Rolled Steel

FIRE PROTECTION PRODUCTS

SPRINKLER - SIDEWALL / STANDART RESPONSE – QUICK RESPONSE

SIDEWALL		
Sprinkler Identification Number (Sin)	AZ001	AZ002
Coverage	Standart Coverage	
Response Time Index (Rti)	Standart Response (5mm Glass Bulb)	Quick Response (3mm Glass Bulb)
Size	1/2" npt	
K Factor	5.6 (80)	
Finish	Brass, Chrome, White Polyster	
Operating Temperatures	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F)	
Listings	UL Listed	
Min. Working Pressure	7 PSI (0,5bar)	
Max. Working Pressure	175PSI (12bar)	
Factory Hydrostatic Test Pressure	500 PSI (35 Bar)	



MATERIAL SPECIFICATION			
Frame	Bronze Forging UNS-C87400	Set Screw	Brass UNS-28000
	or Casting DZR	Button	Brass UNS-28000
Deflector	Brass UNS-28000	Spring	Stainless Steel
Glass Bulb	Glass with Glycerin Solution,	Seal	Teflon® Tape
	JOB® G5 or Day-Impex-937 for AZ003/ AZ005	Standard Escutcheon (Model A-1)	Cold Rolled Steel
	JOB® F3 Or Day-Impex-941 for AZ004/ AZ006		

SPRINKLER - CONCEALED PENDENT / STANDART RESPONSE – QUICK RESPONSE

CONCEALED PENDENT		
Sprinkler Identification Number (Sin)	AZ007	AZ008
Coverage	Standart Coverage	
Response Time Index (Rti)	Standart Response (5mm Glass Bulb)	Quick Response (3mm Glass Bulb)
Size	1/2" npt	
K Factor	5.6 (80)	
Finish	Brass, Chrome, White Polyster	
Operating Temperatures	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F)	
Cover Plate Temperatures	57°C (135°F), 68°C (155°F)	
Listings	UL Listed	
Min. Working Pressure	7 PSI (0,5bar)	
Max. Working Pressure	175PSI (12bar)	
Factory Hydrostatic Test Pressure	500 PSI (35 Bar)	



MATERIAL SPECIFICATION			
Frame	Bronze Forging UNS-C87400	Set Screw	Brass UNS-28000
	or Casting DZR	Button	Brass UNS-28000
Deflector	Brass UNS-28000	Spring	Stainless Steel
Glass Bulb	Glass with Glycerin Solution,	Seal	Teflon® Tape
	JOB® G5 or Day-Impex-937 for AZ003/ AZ005	Standard Escutcheon (Model D-1)	Cold Rolled Steel
	JOB® F3 Or Day-Impex-941 for AZ004/ AZ006		

SPRINKLER - TWO PIECE SPRINKLER ESCUTCHEON / MODEL A-1

APPLICATION AREAS

Item Material
 Inner Pressed Spring Steel
 Outer Pressed Steel
 Weight 35g



FIRE PROTECTION PRODUCTS

SPRINKLER CONNECTION HOSES



FM, VdS Approved, UL Type

Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Braiding Material	Stainless Steel AISI 304
Fittings Types	Male-Internal threaded pipe
Fittings Materials	Carbon Steel St. 37.2/Stainless Steel
Min. Bending Radius	200mm

MARINE PRODUCTS



HEAD OFFICE - FACTORY

Atatürk Sanayi Bölgesi Hadımköy Mahallesi
Mustafa İnan Caddesi No: 44 Arnavutköy - İSTANBUL
Tel: +90 212 771 01 45 (pbx) | Fax: +90 212 771 47 27

**Cona
Caserta/Italy**
Tel: +39 0823 187 3988
rmolaro@ayvaz.com

**Ayvaz Germany
Viernheim/Germany**
Tel: +49 62046014399
germany@ayvaz.com

**Tricorr
Warsaw/Poland**
Tel: +48-32-783-295-1
tricorr@tricorr.eu

**Ayvaz N
Isperih/Bulgaria**
Tel: +359 8431 27 32
office@ayvaz-n.eu

**Haci Ayvaz M.E.
Dubai/U.A.E**
Tel: +971 563550822
+971 501306871
mideast@ayvaz.com

**Ayvaz Russia
Moscow/Russia**
Tel: +74959951728
ayvazrus@ayvaz.com

**Ayvaz Ukraine
Kiev/Ukraine**
Tel: +380 44 390 57 57
info@ayvaz.com.ua

**Ayvaz China
Cixi City/China**
Tel: +86 0574 5897 3851
info@ayvazchina.com

**Ayvaz Serbia
Belgrad/Serbia**
Tel: +381 61 658 70 52
yakbiyik@ayvaz.com

**Ayvaz Kazakhstan LLP
Almaty/Kazakhstan**
Tel: +7 (727) 327 97 57
info_kz@ayvaz.com
www.ayvaz.kz

info@ayvaz.com | www.ayvaz.com

