

EXPANSION JOINTS  
FLEXIBLE METAL HOSES  
LEVEL CONTROL  
STEAM TRAPS  
VALVES

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## ABOUT AYVAZ

For more than 70 years, the name of Ayvaz represents the quality and the reliability in installation sector.



Our production experience in manufacturing the special designed products and the success in providing the technical support and infrastructure for all sized projects are our biggest strengths.

From the first days of establishment, our company has been improving its product range in order to meet the rising requirements of installation sector according to the innovations and technical improvements.

### Currently, we are operating the production of;

- Metal bellowed and rubber expansion joints that are used to compensate the movements caused by the thermal expansions or compressions in pipelines.
- Braided and non-braided metal hoses for all industrial and domestic applications.
- Level indicating and controlling systems.
- Steam traps that maintain the security and provide high efficiency to the steam lines and steam related systems.
- Various types of valves in various materials for all pipeline systems.

We continue manufacturing with more than 600 personnel in our factory which have 32.000 m<sup>2</sup> closed areas and equipped with the latest technological production techniques and equipment. Today, Ayvaz provides economical and reliable solutions for its users in various industries from shipbuilding to solar energy systems all around the world.

Besides our own production, we aim to improve our product range by the business level co-operations and distribution agreements with the world's leading companies of installation sector in order to offer a complete set of installation products to our customers and prevent the potential troubles in supply chain.

With the purpose of providing the closest and most equipped service to both domestic and international partners, Ayvaz has rapidly increased the number of domestic regional offices and international offices in recent years.

**Today we guarantee the customer satisfaction in more than 100 countries that we operate exportation.**

## THE WHITE BOOK

This book is prepared with the technical expertise of the Ayvaz engineers and designed as a guide.



This book aims to give technical information such as application areas and conditions, material characteristics and features, standard and non- standard production dimensions about the products that are manufactured and distributed by Ayvaz.

We believe the given information is useful to assist the users in order to choose the best and most appropriate product through their needs.

**Product range is reviewed under five main product groups.**

- Expansion Joints
- Flexible Metal Hoses
- Level Control
- Steam Equipment
- Valves
- Valve Jackets and Armatures

This book is prepared with the technical expertise of the Ayvaz engineers and designed as a guide that enables the economical and reliable product selection possible while, preventing the confusions of the users with any application knowledge and experience.

### THE QR CODES

New generation barcoding system called Quick Response Code (QR Code) is the easiest way to reach the most detailed information of our products. We have prepared unique QR codes for each product in "The White Book". All you need to do is to let your mobile device read the code.

For more information: [ayvaz.com/qrcode](http://ayvaz.com/qrcode)





















THE WHITE BOOK



EXPANSION JOINTS  
FLEXIBLE METAL HOSES  
LEVEL CONTROLLERS  
STEAM EQUIPMENT  
VALVES



## SYMBOLS FOR PRODUCT FEATURES AND QUICK SELECTION

	Axial Expansion Joint		Seismic Expansion Joint
	Lateral Expansion Joint		Suitable for gaseous media
	Angular Expansion Joint		Resistant to hot water
	3D Movement		Suitable for noise absorption
	Threaded Connection		Suitable for vibration absorption
	Max. Product Pressure		Suitable for Oil media
	Flange Standards		Suitable for drinking water
			Suitable for seawater
	Max Product Temperature		
	Flame-proof		



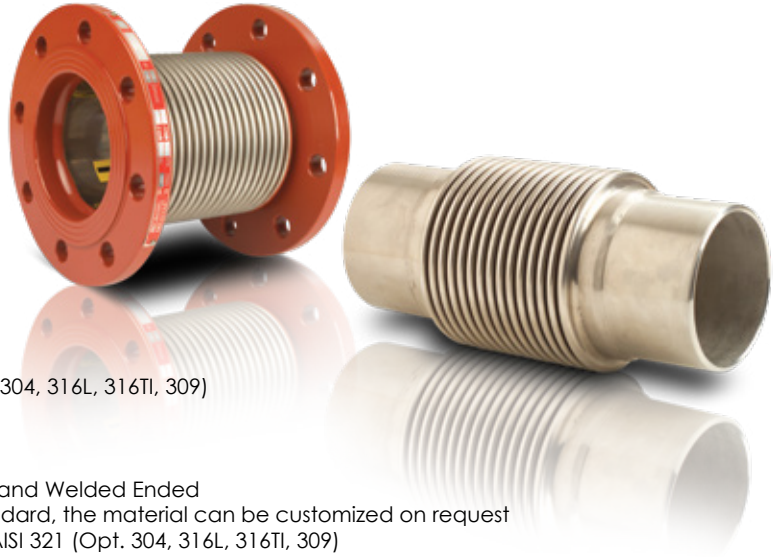
## METAL BELLOWS EXPANSION JOINTS AXIAL EXPANSION JOINTS

### APPLICATION AREAS

Hot and cold water systems  
Steam and gas media related systems  
Oil transporting lines  
Pressured systems  
Pumps, motors, machines

### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
Nominal Diameter	DN25 (1/2") - DN5000 (200")
Operating Pressure	PN 2,5/6/16/25/40/64
Operating Temperature	-10°C/+550°C
Connection Types	Fixed and Floating Flanged and Welded Ended
Flange Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Optional	Inner Sleeve Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
Certificate	PED 2014 / 68 / EU Cat.III Mod. H



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\* Higher operating pressure is subject to special design and manufacturing. Please contact our sales team.

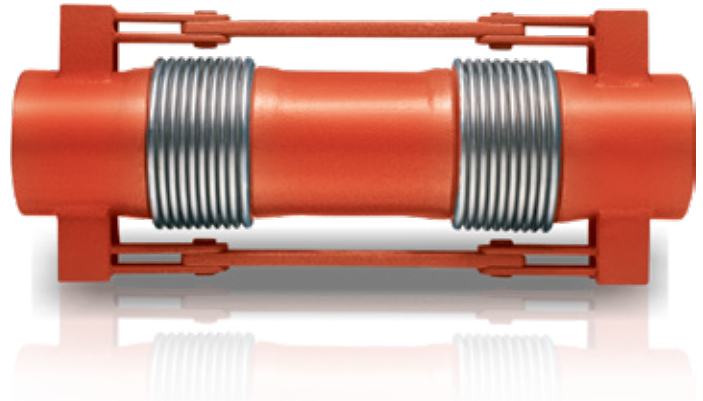
## METAL BELLOWS EXPANSION JOINTS LATERAL EXPANSION JOINTS

### APPLICATION AREAS

Hot and cold water systems  
Industrial applications  
Steam and gas media related systems  
Oil transporting Lines  
Pressured systems

### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
Nominal Diameter	DN25 (1/2") - DN5000 (200")
Operating Pressure	PN 2,5/6/16/25/40/64
Operating Temperature	-10°C/+550°C
Connection Types	Fixed and Floating Flanged and Welded Ended
Flange Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Certificate	PED 2014 / 68 / EU Cat.III Mod. H



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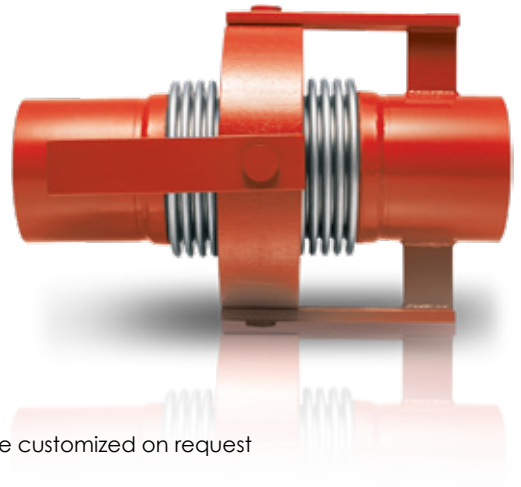
## METAL BELLOWS EXPANSION JOINTS ANGULAR EXPANSION JOINTS

### APPLICATION AREAS

Compensating angular movements in pipe routings  
Reducing tension  
Oil transporting lines  
Pressured systems  
Industrial pipeline construction

### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
Nominal Diameter	DN25 (1/2") - DN5000 (200")
Operating Pressure	PN 2,5/6/16/25/40/64
Operating Temperature	-10°C/+550°C
Connection Types	Fixed and Floating Flanged and Welded Ended
Flange Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Certificate	PED 2014 / 68 / EU Cat.III Mod. H



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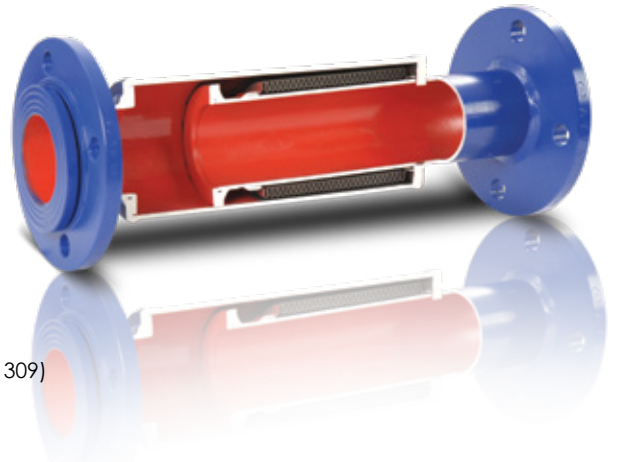
## METAL BELLOWS EXPANSION JOINTS X-PRESSED EXPANSION JOINTS

### APPLICATION AREAS

Hot and cold water systems  
Steam and gas media related systems  
Oil transporting lines  
Pressured systems  
Pumps, motors, machines

### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
Nominal Diameter	DN25 (1/2") - DN5000 (200")
Operating Pressure	PN 2,5/6/16/25/40/64
Operating Temperature	-10°C/+550°C
Connection Types	Fixed and Floating Flanged and Welded Ended
Flange Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Optional	Inner Sleeve Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
Certificate	PED 2014 / 68 / EU Cat.III Mod. H



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## METAL BELLOWS EXPANSION JOINTS

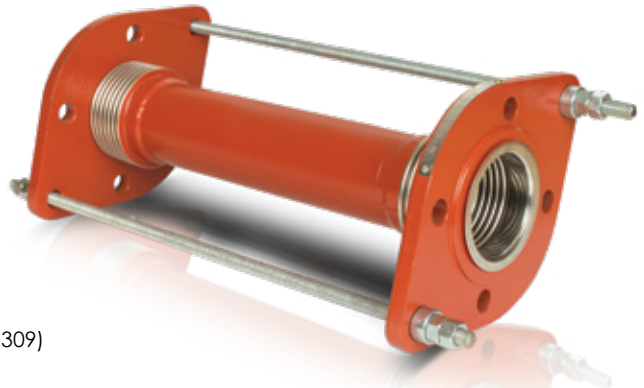
### DILATATION EXPANSION JOINTS WITH TIE RODS

#### APPLICATION AREAS

Axial and lateral movement absorption  
Fire protection lines  
Pipelines go through from one building to another  
Pressured systems  
Industrial pipeline constructions

#### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
Nominal Diameter	DN25 (1/2") - DN5000 (200")
Operating Pressure	PN 2,5/6/16/25/40/64
Operating Temperature	-10°C/+550°C
Connection Types	Fixed Flanged, Welded Ended and Grooved
Flange Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Tie Rod Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Intermediate Pipe Certificate	PED 2014 / 68 / EU Cat.III Mod. H



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## METAL BELLOWS EXPANSION JOINTS

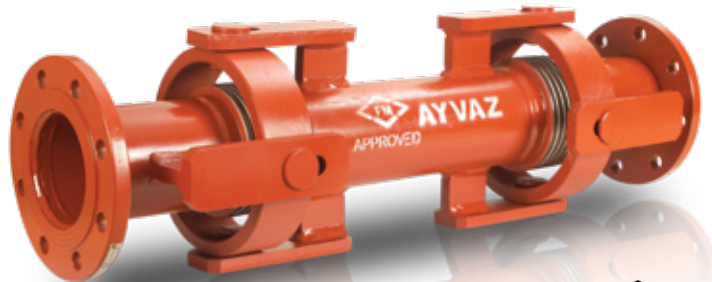
### GIMBAL TYPE SEISMIC EXPANSION JOINTS

#### APPLICATION AREAS

For 3D (All planes) movement absorption  
Fire protection lines  
Pipelines go through from one building to another  
Pressured systems  
Industrial pipeline constructions

#### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
Nominal Diameter	DN25 (1/2") - DN5000 (200")
Operating Pressure	175 psi - 250 psi
Operating Temperature	-10°C/+550°C
Connection Types	Fixed Flanged, Welded Ended and Grooved
Flange Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Intermediate Pipe Certificate	Carbon Steel St. 37.2 as standard, the material can be customized on request PED 2014 / 68 / EU Cat.III Mod. H FM Approval, Class 1920 (up to DN300)



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## METAL BELLOWS EXPANSION JOINTS PIPE EXPANSION JOINTS

### APPLICATION AREAS

Heating pipelines of very high buildings  
Internal and decorative applications  
Hot and cold water systems  
Vertical pipe connection

### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 316L
Body Material	Aluminium (Opt. Stainless Steel)
Nominal Diameter	DN15 (1/2") - DN150 (6")
Operating Pressure	PN 16
Operating Temperature	-10 / +100 °C
Connection Types	Threaded and Welded Ended



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## METAL BELLOWS EXPANSION JOINTS VIBRATION ABSORBER EXPANSION JOINTS WITH TIE ROD

### APPLICATION AREAS

Vibration absorption of rotating elements  
Pressured systems  
Pumps, motors, machines, compressors  
Pressured systems  
Industrial pipeline construction  
Gas and water supply

### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309) Double Plie
Nominal Diameter	DN25 (1/2") - DN5000 (200")
Operating Pressure	PN 2,5/6/16/25/40/64
Operating Temperature	-10°C/+550°C
Connection Types	Fixed Flanged
Flange Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Tie Rod Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Certificate	PED 2014 / 68 / EU Cat.III Mod. H



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## METAL BELLOWS EXPANSION JOINTS BRAIDED EXPANSION JOINTS

### APPLICATION AREAS

Vibration absorption of rotating elements  
Pressured systems  
Pumps, motors, machines, compressors  
Industrial pipeline construction  
Gas and water supply

### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 321
Braiding Material	Stainless Steel AISI 304
Nominal Diameter	DN25 (1/2") - DN5000 (200")
Operating Pressure	16 bar
Operating Temperature	-10°C/+550°C
Connection Types	Fixed and Floating Flanged and Welded Ended
Flange Material	Carbon Steel St. 37.2 as standard, the material can be customized on request
Certificate	PED 2014 / 68 / EU Cat.III Mod. H



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## METAL BELLOWS EXPANSION JOINTS BRAIDED LOOP JOINTS (U-FLEX, V-FLEX)

### APPLICATION AREAS

Seismic security areas  
Dilatation points  
Fire protection lines  
Industrial applications

### PRODUCT FEATURES

Bellow Material	Stainless Steel AISI 316L
Braiding Material	Stainless Steel AISI 304
Nominal Diameter	DN25 (1/2") - DN5000 (200")
Operating Pressure	175 psi - 250 psi
Operating Temperature	-10°C/+550°C
Fittings Types	Flange, Welded ends, Grooved
Fittings Materials	Carbon Steel St. 37.2, the material can be customized on request
Elbow and Turn Material	Carbon Steel St. 37.2, the material can be customized on request
Flange Material	Carbon Steel St. 37.2, the material can be customized on request
Certificate	FM Approval, Class 1920 (up to DN300)



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## RUBBER EXPANSION JOINTS

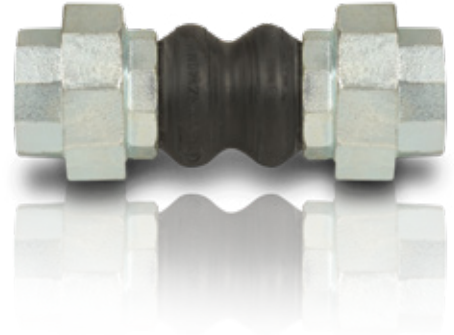
### RUBBER EXPANSION JOINT DKK-10

#### APPLICATION AREAS

For reducing thermal and mechanical tension  
Pumps, motors, machines, compressors  
For 3D (All plates) movement absorption  
Compensating the installation inaccuracies  
For absorbing vibration and noise

#### PRODUCT FEATURES

Bellow Material	Special Synthetic Rubber
Nominal Diameter	DN15 (1/2") - DN80 (3")
Operating Pressure	10 bar
Operating Temperature	-10 / +90 °C
Connection Types	Threaded
Connection Material	Cast Iron



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## RUBBER EXPANSION JOINTS

### RUBBER EXPANSION JOINT LKA-10

#### APPLICATION AREAS

For reducing thermal and mechanical tension  
Pumps, motors, machines, compressors  
For 3D (All plates) movement absorption  
Compensating the installation inaccuracies  
For absorbing vibration and noise  
Compensating irregular movement in cooling lines

#### PRODUCT FEATURES

Bellow Material	Special Synthetic Rubber
Nominal Diameter	DN32 (3/4") - DN600 (24")
Operating Pressure	10 bar
Operating Temperature	Max. 90°C
Connection Types	Floating Flanged
Flange Material	Ductile Iron GGG 40.3 (Optional composite)



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EXPANSION JOINTS  
**FLEXIBLE METAL HOSES**  
LEVEL CONTROLLERS  
STEAM EQUIPMENT  
VALVES



## SYMBOLS FOR PRODUCT FEATURES AND QUICK SELECTION

	Gas Hoses		Standard Corrugation
	Water & HVAC Hoses		Open Pitched Corrugation
	Solar Energy Hoses		Semi-Closed Pitched Corrugation
	Industrial Hoses		Closed Pitched Corrugation
	Sprinkler Hoses		Suitable for hot water
	Suitable for Combi Boilers		Suitable for drinking water
	Suitable for cookers		Max. Operating Pressure
	Suitable for natural gas Meters		Max. Operating Temperature
	Threaded Connection		Suitable for oils
	Suitable for gaseous media		Suitable for water heaters
	Seismic Protection Joint		Suitable for washing machines
	Flange Standards		Suitable for sanitary applications
			



## INDUSTRIAL HOSES

### BRAIDED AND NON-BRAIDED HOSES WITHOUT FITTINGS

#### APPLICATION AREAS

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

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#### PRODUCT FEATURES

Hose Type Standard and open pitch corrugated metal hose  
Hose Material Stainless Steel AISI 316L  
AISI 304 or AISI 321 also available upon request



		DN	LENGTH (m)
HOSE DIMENSIONS	COIL	6-25	50
		32-50	25
		65-250	10
	BOBBIN	12	1000
		16	750
		20	500
		25	320

STANDARD CORRUGATED HOSE DIMENSIONS							
DN	Model	Internal Diameter	Outer Diameter	Tolerance	Minimum Bending Radius	Nominal Bending Radius	Nominal Pressure (PN) DIN EN ISO 10380/SF4
		mm	mm	mm	rmin (mm)	rn (mm)	
6	Non-braided	6,3	9,9	0,2	15	80	25
	Braided		11		25		150
8	Non-braided	7,7	11,3	0,2	16	120	20
	Braided		12,3		32		100
10	Non-braided	10,1	14,4	0,2	18	130	16
	Braided		15,5		38		100
12	Non-braided	12,2	16,2	0,2	20	140	10
	Braided		17,5		45		65
16	Non-braided	15,6	20,8	0,2	28	160	6
	Braided		22,1		58		65
20	Non-braided	18,8	24,9	0,2	32	170	4
	Braided		26,2		70		40
25	Non-braided	24,6	31,3	0,2	40	190	4
	Braided		32,7		85		50
32	Non-braided	33,7	41,1	0,3	50	260	2,5
	Braided		42,8		105		25
40	Non-braided	40,8	49,8	0,3	60	300	2,5
	Braided		51,2		130		40
50	Non-braided	51,5	60,4	0,3	70	320	0,5
	Braided		62,7		160		25
65	Non-braided	66,1	78,2	1	115	460	0,5
	Braided		81,5		200		25
80	Non-braided	80,7	94,8	1	130	660	0,5
	Braided		98		240		16
100	Non-braided	99,5	115,4	1	160	750	0,5
	Braided		118,8		290		10

\* DN125 - DN300 standard corrugated hoses are also available.

OPEN PITCH CORRUGATED HOSE DIMENSIONS							
12	Non-braided	11,8	15,8	0,2	20	165	16
16	Non-braided	16,6	21,4	0,2	25	195	10
20	Non-braided	20,9	26,4	0,2	30	225	10
25	Non-braided	25,1	31,8	0,3	35	260	6
32	Non-braided	32,8	39,6	0,3	40	300	4



## INDUSTRIAL HOSES

### BRAIDED AND NON-BRAIDED HOSES WITH FITTINGS

#### APPLICATION AREAS

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

#### PRODUCT FEATURES

Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L - AISI 321
Braiding Material	Stainless Steel AISI 304
Fittings Types	Flange, Welded ends, Threaded
Fittings Materials	Carbon Steel St. 37.2 / Stainless Steel (Optional)



\* Please contact our sales team for hose lengths and connections

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## INDUSTRIAL HOSES

### VIBRATION ABSORBER HOSE

#### APPLICATION AREAS

Vibration absorption of refrigerating units  
Pressured systems  
Pumps, motors, machines, compressors  
Gas and water supply

#### PRODUCT FEATURES

Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Braiding Material	Stainless Steel AISI 304
Fittings Material	Copper
Fittings Types	Welded End



HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	6	M6	230±5
		1/4"	230±5
	8	M8	230±5
		3/8"	230±5
	10	M10	230±5
	12	M12	230±5
		1/2"	230±5
		M15	255±5
	16	M16	255±5
		5/8"	255±5
		M18	255±5
		3/4"	255±5
	20	M22	290±5
		7/8"	290±5
	25	M28	330±5
		1 1/8"	330±5
	32	M35	375±5
		1 3/8"	375±5
	40	M42	430±5
		1 5/8"	430±5
	50	M54	510±5
		2 1/8"	510±5

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## INDUSTRIAL HOSES

### INDUSTRIAL BRAIDED HOSES WITH INSTALLATION FITTINGS

#### APPLICATION AREAS

Hot and cold water applications  
Super-heated steam and oil applications  
Heating of manufacturing lines  
Pipeline bridges  
Heating of pressured vessels and tanks  
Cooling systems and transporting relevant fluids  
Gas applications

#### PRODUCT FEATURES

Hose Type                      Standard corrugated metal hose  
Hose Material                Stainless Steel AISI 316L  
Braiding Material            Stainless Steel AISI 304  
Fittings Materials            Threaded Connections in Malleable Iron  
                                      Flanges in Carbon Steel St. 37.2 (Stainless steel optional)  
Fittings Types                Internal Threaded (Female) Connection  
                                      External Threaded (Male) Nipple Connection  
                                      Fixed and Floating Flanged



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	HOSE DIMENSIONS								
	Type	DN/R	Minimum Bending Radius (rmin) mm	Nominal Bending Radius (rmin) mm	Hose Diameter		Temperature Range (°C)	Max. Operating Pressure	
					Di (mm)	Do (mm)		Gas (bar)	Air Water (bar)
Threaded	DN10 x 3/8"		38	130	10,2	15,7	-10/+300	4	16
	DN16 x 1/2"		58	160	16,2	23,3	-10/+300	4	16
	DN20 x 3/4"		70	170	20,2	28,3	-10/+300	4	16
	DN25 x 1"		85	190	25,5	34,2	-10/+300	4	16
	DN32 x 1 1/4"		105	260	34,2	48,0	-10/+300	4	16
	DN40 x 1 1/2"		130	300	40,1	52,0	-10/+300	4	16
	DN50 x 2"		160	320	50,4	62,6	-10/+300	4	16
Flanged	DN65 x DN65		200	160	65,8	81,2	-10/+300	16	16
	DN80 x DN80		240	660	80,2	98,0	-10/+300	16	16
	DN100 x DN100		290	750	100,0	119,4	-10/+300	16	16

## GAS HOSES

### EN 14800 (NATURAL GAS AND LPG)

#### APPLICATION AREAS

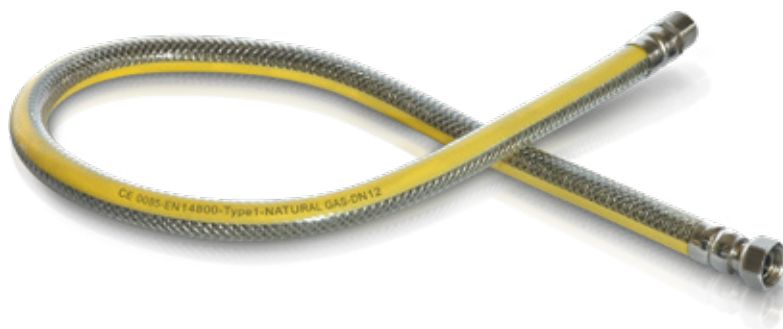
Natural gas and LPG applications  
Kitchen appliances  
Cookers and grills

#### PRODUCT FEATURES

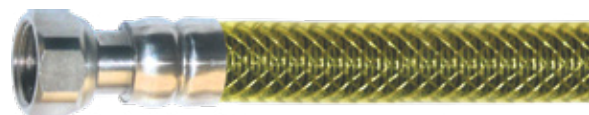
Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L (1.4404) acc. to EN ISO 10380
Braiding Material	Stainless Steel AISI 304 (1.4301)
Cover	Transparent PVC for the protection from household and other aggressive influences.
Internals	Stainless Steel AISI 304 (1.4301)
Norm	EN 14800:2007

#### CONNECTION TYPES

SWIVEL NUTS	Nut in AISI 304 (1.4301) stainless steel threaded EN ISO 228/1
NIPPLE	Nipple in AISI 304 (1.4301) stainless steel threaded DIN EN ISO 7/1
FIXED NUT	Nut in AISI 304 (1.4301) stainless steel threaded EN ISO 228/1
BAYONETTE	Bayonette in Stainless steel AISI 304 (1.4301) threaded DIN EN ISO 7/1



**SWIVEL NUT**



**NIPPLE**



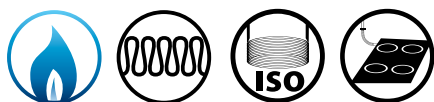
**FIXED NUT**



**SWIVEL NUT + ADAPTER**



**BAYONETTE**



HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	12	1/2"x1/2"	500
			750
			1000
			1250
			1500
			2000

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## GAS HOSES

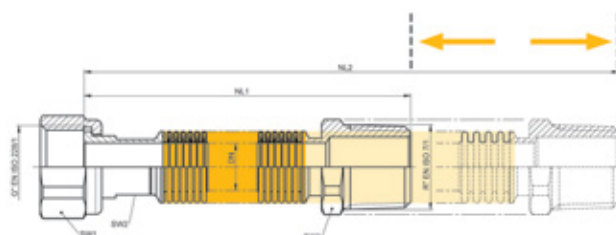
### MIGFLEX - FULLY EXTENSIBLE (MIG-GAS)

#### APPLICATION AREAS

Natural gas applications  
Kitchen appliances  
Combi boilers and water heaters  
Cookers and grills

#### PRODUCT FEATURES

Hose Type Closed pitch corrugated extensible metal hose  
Hose Material Stainless Steel AISI 316L  
Fittings Types Female-Male/Female-Female  
Fittings Materials Nut in Stainless Steel AISI 304/303 EN ISO 228/1 (Brass Ms58 Opt.)  
Nipple in Stainless Steel AISI 304/303 EN ISO 7/1  
Cover Polyolefin Cover in Yellow or coverless  
Gasket NBR / Aluminium  
Other With heat treatment  
Norm UNI 11353



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HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	12	1/2"x1/2"	90X140
		1/2"x3/4"	130X220
	20	3/4"x3/4"	220X420
	25	1"x1"	300X600
			500X1000
			750X1500
			1000X2000

## GAS HOSES

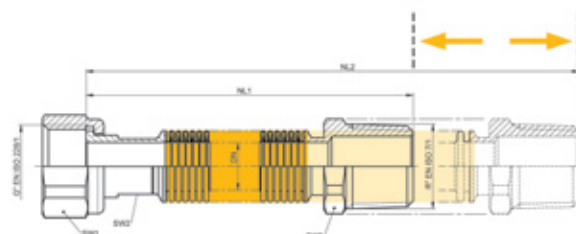
### EKO MIG-GAS - SEMI EXTENSIBLE

#### APPLICATION AREAS

Natural gas applications  
Kitchen appliances  
Combi boilers and water heaters  
Cookers and grills

#### PRODUCT FEATURES

Hose Type Semi Closed pitch corrugated extensible metal hose  
Hose Material Stainless Steel AISI 316L  
Fittings Types Female-Male/Female-Female  
Fittings Materials Nut in Nickel Coated Brass EN ISO 228/1  
Nipple in Stainless Steel EN ISO 7/1  
Cover Polyolefin Cover in yellow or coverless  
Gasket NBR / Aluminium  
Other With heat treatment



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HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	12	1/2"x1/2"	110X185
		1/2"x3/4"	220X375
	16	3/4"x3/4"	300X510
	20	1"x1"	500X850
			750X1275
			1000X1700

## GAS HOSES EKO-FLEX

### APPLICATION AREAS

Natural gas applications  
Kitchen appliances  
Cookers and grills

### PRODUCT FEATURES

Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Fittings Types	Female-Male, Female-Female
Fittings Materials	Nipple in Ni Coated Carbon Steel St. 37.2 EN ISO 7/1 Nut in Ni Coated Carbon Steel St. 37.2 EN ISO 228/1
Cover	Polyolefin Cover in Yellow or Coverless



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HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	12	1/2"x1/2" 1/2"x3/4"	300 All sizes are available in between 5000
	16	3/4"x3/4"	
	20	1"x1"	

## GAS HOSES BURN-FLEX

### APPLICATION AREAS

Natural gas applications  
Kitchen appliances  
Gas burners and heaters

### PRODUCT FEATURES

Hose Type	Semi Closed pitch corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Fittings Types	External threaded pipe EN ISO 7/1
Fittings Materials	CrNi Coated Carbon Steel St. 37.2/Stainless Steel
Cover	Polyolefin Cover in Yellow or Coverless



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HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	12	1/2"	145
	16	3/4"	150
	25	1"	165
	32	1 1/4"	165
	40	1 1/2"	210
	50	2"	230

## GAS HOSES INDOOR-FLEX

### APPLICATION AREAS

Ayvaz's Indoor-flex hoses can be used for the main gas lines of;  
Fixed appliances such as furnaces, stoves, and gas burning fireplaces  
Cookers, grills, patio heaters, fire pits  
Combi-boilers and water heaters

### PRODUCT FEATURES

Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Cover	Soft PVC Cover in Yellow

### SYSTEM ELEMENTS

Nut	Nickel coated Brass 1/2"/3/4"/1"
Nipple	Nickel coated Brass 1/2"/3/4"/1"
Clamping Washers	Stainless Steel AISI 304 1/2"/3/4"/1"
Tee	Nickel coated Brass 1/2"-1/2"-1/2", 3/4"-1/2"-1/2"
Ball Valve	Nickel coated Brass
Crushing Tool	Ni Coated Carbon Steel 1/2"/3/4"/1"
Pipe Clips	DN12/16/20
Gasket	Nitrile 1/2"/3/4"/1"
Cutting Tool	1/2"/3/4"/1"
Heat Shrink Tube	

## INDOOR FLEX



\* The seating surface areas of the ball valves and the gaskets must be considered carefully.

\* It is advised to use the ball valves and intermediate connection parts manufactured by Ayvaz.

**Nut**



**Clamping Washers**



**Ball Valve**



**Crushing Tool**



**Heat Shrink Tube**



**Nipple Adapters**



**Tee**



**Cutting Device**



**Pipe Clips**



**Gasket**



Ayvaz's Indoor-flex hoses may be provided as the bobbins and coils.



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COIL			
Diameter (DN)	DN12	DN16	DN20
Max. Length (m)	50-100	50-100	50-100

BOBBIN			
Diameter (DN)	DN12	DN16	DN20
Max. Length (m)	900-1000	600-700	400-450

## GAS HOSES

### COUNTER-FLEX

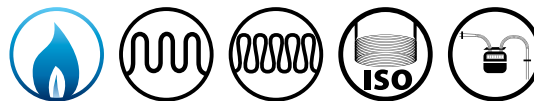
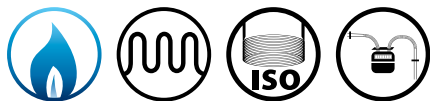


#### PRODUCT FEATURES

##### PRS 6/E

Hose Type Standard corrugated metal hose  
Hose Material Stainless Steel AISI 316L / AISI 321  
Fittings Types Female-Male, Male-Male  
Fittings Materials Male in threaded Carbon Steel St. 37.2 pipe EN 10226  
Nut in brass (BS 746)  
Cover Coverless

Standard/closed pitch corrugated extensible metal hose  
Stainless Steel AISI 316L  
Female-Male/Female-Female  
Male (EN ISO 7/1) and int. parts in CrNi coated Carbon Steel St. 37.2  
Nut in brass / Carbon Steel St. 37.2 EN ISO 228/1  
Polyolefin Cover in Yellow or Coverless



HOSE DIMENSIONS (PRS 6/E)		
DN	CONNECTION	LENGTH (mm)
20	3/4"x3/4" 3/4"x1"	242
		250
		330
25	1"x1"	400
		440

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HOSE DIMENSIONS		
DN	CONNECTION	LENGTH (mm)
20	3/4"x3/4" 3/4"x1"	150
		170
25	3/4"x1" 3/4"x1/4"	130x220
		220x420
32	1"x1 1/4"	300x600

## GAS HOSES

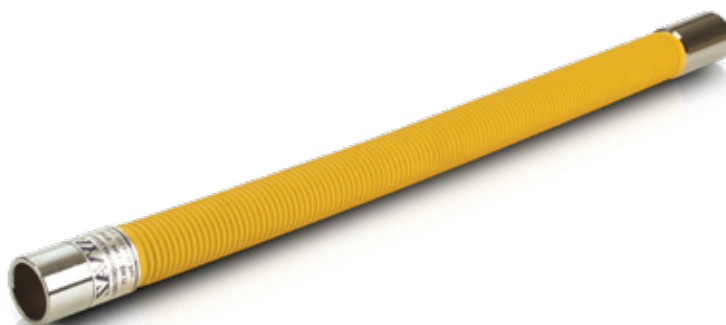
### DILATATION HOSE

#### APPLICATION AREAS

Seismic security areas  
Dilatation points  
Fire protection lines  
Industrial applications

#### PRODUCT FEATURES

Hose Type Standard corrugated metal hose  
Hose Material Stainless Steel AISI 316L  
Fittings Material NiCr Coated Carbon Steel St. 37.2  
Fittings Types Welded Ends  
Cover Polyolefin Cover in Yellow or Coverless



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HOSE DIMENSIONS	DN	LENGTH (mm)
	12	500
	20	550
	25	600
	32	650
	40	750
	50	850

## GAS HOSES SERVICE-FLEX

### APPLICATION AREAS

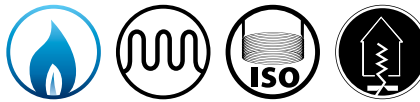
Under-soil natural gas connections from the main street lines to the buildings  
Service-access point connections

### PRODUCT FEATURES

Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Fittings Type	Outern threaded pipe end
Fittings Material	Carbon Steel St 37.2 EN ISO 10226
Cover	Special Polyethylene band



HOSE DIMENSIONS		
DN	CONNECTION	LENGTH (mm)
25	1"x1"	170 all sizes are available in between 5000
32	1 1/4" x 1 1/4"	
50	2"x2"	



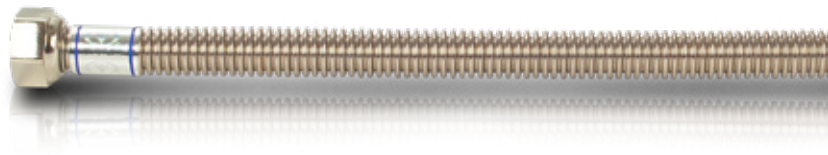
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## WATER & HVAC HOSES SU-FLEX

### APPLICATION AREAS

Sanitary applications  
Dish washers and washing machines  
Boiler and hot water tank connections  
Radiator connections



### PRODUCT FEATURES

Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L / AISI 304
Fittings Types	Nut-Nut (Male adapters are available)
Fittings Materials	Nut in Brass EN ISO 228/1
Cover	Non-covered
Gasket	Klingerit

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HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	12	1/2"	200 all sizes are available in between 5000
	16	3/4"	



## WATER & HVAC HOSES

### KES-TAK (SELF ASSEMBLY KIT)

#### APPLICATION AREAS

Sanitary applications  
Dish washers and washing machines  
Boiler and hot water tank connections  
Radiator connections

#### PRODUCT FEATURES

Hose Type                      Standard corrugated metal hose  
Hose Material                Stainless Steel AISI 316L  
Fittings Types                Self assembly male adapters and nuts available  
Fittings Materials            Ni Coated Brass Nuts and male adapters  
Clamping washer in Stainless Steel AISI 304  
Gasket                         Asbestos free Klingerit  
Operating Temp              Max.150°C

#### KES-TAK BOX COMPONENTS

Nut                                10 pcs  
Clamping Washer            10 pcs  
Gasket                         10 pcs  
Crushing Screw             1 pcs  
Flexible Metal Hose        Please see the table below



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KES-TAK BOX DETAILS									
Hose Dia.	Fittings Dia.	Hose Length (m)	Gasket Qty	Internal Dia.	Tolerance (±)	External Dia.	Tolerance (±)	Operating Pressure	Bursting Pressure
DN10	3/8"	25	10	10,1	0,2	14,1	0,2	16 bar	64 bar
DN12	1/2"	25	10	12,1	0,2	16,5	0,3	16 bar	64 bar
DN16	3/4"	15	10	16,1	0,2	21,5	0,4	10 bar	40 bar
DN20	1"	10	10	20,1	0,2	26,5	0,5	6 bar	24 bar
DN25	1 1/4"	Please contact our Sales Team							
DN32	1 1/2"								
DN40	2"								



## WATER & HVAC HOSES

### KES-TAK (BAG)

#### KES-TAK BAG COMPONENTS

Kes-tak Piston  
Kestak Piston heads in two different sizes  
Cutting Device  
Fittings set in two different sizes

#### KES-TAK FITTINGS SIZES (IN THE BAG)

1/2" - 3/4"  
1/2" - 1"  
3/4" - 1"

#### SELF ASSEMBLY IN 5 EASY STEPS



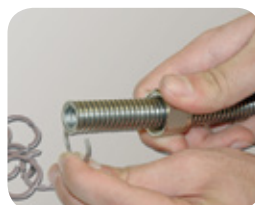
1. Measuring and cutting the hose



2. Slide the nut over the hose



3. Press the piston



4. Fit the clamping washer



5. Insert the gasket

## WATER & HVAC HOSES

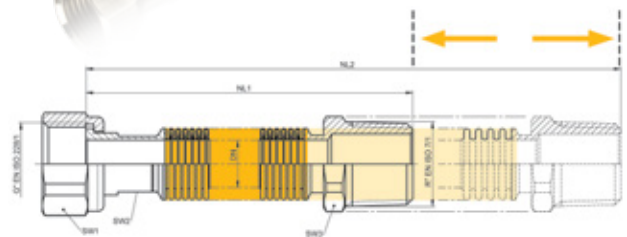
### AQUAFLEX - FULLY EXTENSIBLE (MIG SU)

#### APPLICATION AREAS

Sanitary applications  
Dish washers and washing machines  
Boiler and hot water tank connections  
Radiator connections

#### PRODUCT FEATURES

Hose Type	Closed pitch corrugated extensible metal hose
Hose Material	Stainless Steel AISI 316L
Fittings Types	Female-Female, Female-Male
Fittings Materials	Nipple in stainless steel EN ISO 7/1 Nut in Brass Ms58, EN ISO 228/1 Internal parts in stainless steel
Cover	Polyolefin Cover in White or Coverless
Norm	UNI 7129



HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	12	1/2"x1/2"	90x140
		1/2"x3/4"	130x220
	20	3/4"x3/4"	220x420
	25	1"x1"	300x600
			500x1000
			750x1500
			1000x2000



## WATER & HVAC HOSES

### COMBI CONNECTION SET

#### APPLICATION AREAS

Complete hose set includes Mig-Gas and Mig-Su hoses  
For combi boilers, gas and water connections

#### PRODUCT FEATURES

Hose Type	Closed pitch corrugated extensible metal hose
Hose Material	Stainless Steel AISI 316L
Fittings Types	Female-Male
Fittings Materials	Male and internal parts are stainless steel Nut in Stainless Steel / Brass
Cover	Mig-Gas hose with Polyolefin Cover in Yellow
Gasket	Mig-Su hoses are coverless Klingerit / Aluminium



HOSE DIMENSIONS	DN	QTY	CONNECTION	LENGTH (mm)
	12	2	1/2"x1/2" MF	220x420
	20	2	3/4"x3/4" MF	
	20	1	3/4"x3/4" MF	



## WATER & HVAC HOSES MIX-FLEX

### APPLICATION AREAS

Kitchen Faucet connections  
Bathroom Mixer tap connections  
Domestic Water connections  
Sanitary

### PRODUCT FEATURES

Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Fittings Type	Male-Female
Fittings Materials	Nipple in Stainless Steel M10x1 Nut in Ni Coated Brass EN ISO 228/1 Inner Parts in Stainless Steel Kes-tak Female Connection
Cover	Normally coverless, polyolefin cover in customized colours is optional
Gasket	Klingerit or NBR



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HOSE DIMENSIONS		
DN	Connection	Length (mm)
8	M10x1 x 3/8" M10x1 x 1/2"	300 all sizes are available in between 1000



## WATER & HVAC HOSES FAN-COIL HOSE

### APPLICATION AREAS

Heating, air conditioning and ventilation applications  
Combi and fan heating connections  
Water heaters  
Radiator connections

### BRAIDED AND NON-BRAIDED HOSES WITH FITTINGS

#### PRODUCT FEATURES

Hose Type	Standard corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Braiding Material	Stainless Steel AISI 304 (Braiding is optional)
Fittings Materials	Carbon Steel St. 37.2/Stainless Steel
Fittings Type	Female-Male
Insulation Material	Rubber based special insulation (9-13 mm) Cryogel X201 (Aspen Aerogels) (5-10 mm)



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HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	12	1/2"x1/2" 1/2"x3/4"	200 all sizes are available in between 2000
	16	3/4"x3/4"	





## SOLAR ENERGY HOSES

### EZ-FLEX INSULATED SOLAR HOSES (2in1 and 1in1)

#### APPLICATION AREAS

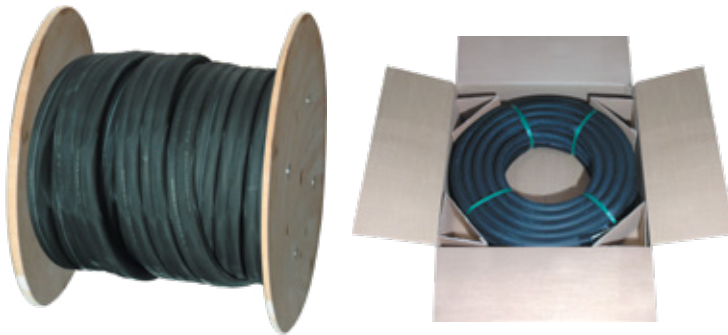
Solar energy applications  
Collector and solar boiler connections  
Hot water applications  
Drinking water connections

#### PRODUCT FEATURES

Hose Type	Standard or open pitch corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Braiding Material	Separable Polyamide braiding or non braided
Sensor Cable	Silicone Cable
Insulation Material	EPDM, rubber based insulation
Insulation Thickness	9mm/13mm/19mm



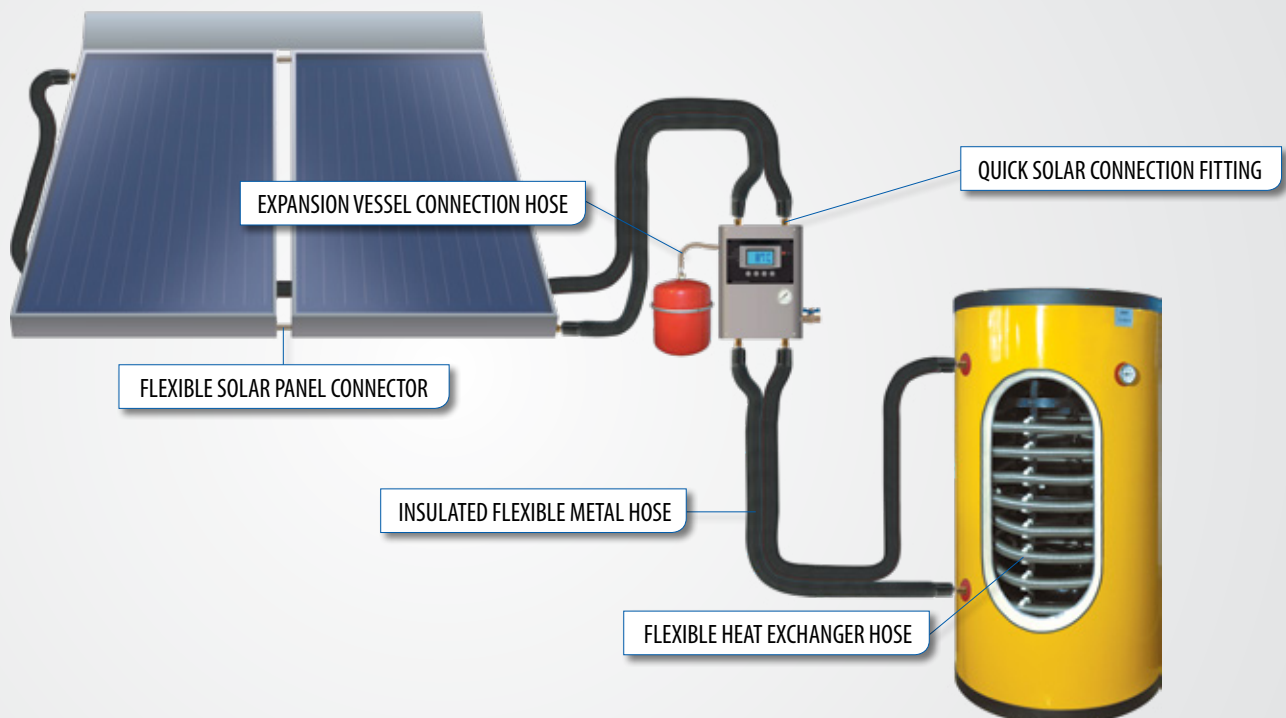
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COIL				
Diameter (DN)	DN12	DN16	DN20	DN25
Max. Length (m)	10-50	10-50	10-50	10-50

BOBBIN				
Diameter (DN)	DN12	DN16	DN20	DN25
Max. Length (m)	150	150	125	100

## SOLAR CONNECTION SYSTEMS



## SOLAR ENERGY HOSES NANOFLEX

### APPLICATION AREAS

Solar energy applications  
Collector and solar boiler connections  
Industrial high temperature applications  
Drinking water connections  
Hot water applications

### PRODUCT FEATURES

Hose Type	Standard or open pitch corrugated metal hose
Hose Material	Stainless Steel AISI 316L
Cover	Separable UV resistant cover
Cover Color	Black, white, red, grey
Sensor Cable	Silicone Cable
Insulation Material	Pyrogel XT aerogel insulation
Insulation Thickness	5mm



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COLOR!



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COIL				
Diameter (DN)	DN12	DN16	DN20	DN25
Max. Length (m)	10-50	10-50	10-50	10-50
BOBBIN				
Diameter (DN)	DN12	DN16	DN20	DN25
Max. Length (m)	150	150	125	100

## "PAN-FLEX" FLEXIBLE CONNECTIONS BETWEEN SOLAR PANELS

### APPLICATION AREAS

Solar collector connections

### PRODUCT FEATURES

Hose Type	Closed pitch corrugated highly flexible metal hose
Hose Material	Stainless Steel AISI 316L
Fittings Material	MS 58 Brass
Fittings Types	Female-Female, Male-Male, Welded Ends, Push Connector, Press Type



HOSE DIMENSIONS	DN	CONNECTION	LENGTH (mm)
	12	1/2"x1/2"	50
	16	3/4"x3/4"	100
	20	1"x1"	100

## "QUICK SET" FITTINGS SYSTEM FOR INSULATED SOLAR HOSES WITHOUT GASKET



### PRODUCT FEATURES

Fittings Material MS 58 Brass

Fittings Types:  
Externally Threaded  
Internally Threaded  
Adapter  
Welded End  
Ermeto Nut

Male		Female		Adapter		Welded End		Ermeto Nut			
Hose Dia.	Con. Size	Hose Dia.	Con. Size	Hose Dia.	Con. Size	Hose Dia.	Con. Size	Hose Dia.	Con. Size	Hose Dia.	Con. Size
DN12 x 1/2"		DN12 x 1/2"		DN12 x DN12		DN12 x 15 mm		DN12 x 15 mm		DN20 x 18 mm	
DN12 x 3/4"		DN12 x 3/4"		DN16 x DN16		DN16 x 15 mm		DN12 x 18 mm		DN20 x 20 mm	
DN16 x 1/2"		DN16 x 1/2"		DN20 x DN20		DN16 x 18 mm		DN12 x 22 mm		DN20 x 22 mm	
DN16 x 3/4"		DN16 x 3/4"		DN25 x DN25		DN16 x 22 mm		DN16 x 15 mm		DN25 x 18 mm	
DN16 x 1"		DN16 x 1"				DN20 x 18 mm		DN16 x 18 mm		DN25 x 22 mm	
DN20 x 3/4"		DN20 x 3/4"				DN20 x 22 mm		DN16 x 22 mm			
DN20 x 1"		DN20 x 1"				DN25 x 22 mm					
DN25 x 1"		DN25 x 1"									
DN25 x 1 1/4"		DN25 x 1 1/4"									

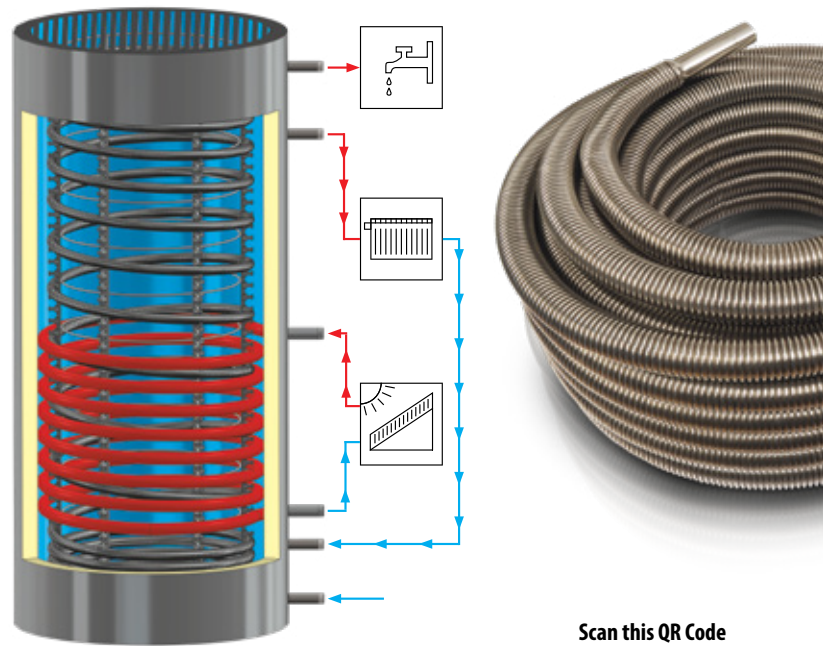
## SOLAR ENERGY HOSES BOILER-FLEX

### APPLICATION AREAS

Solar hot water boilers  
Heat exchangers  
Industrial high temperature applications  
Drinking water connections

### PRODUCT FEATURES

Hose Type      Standard corrugated metal hose  
                      Open pitch corrugated metal hose  
Hose Material    Stainless Steel AISI 316L  
Fittings Material   Stainless Steel AISI 316  
Fittings Types    Internal and external threaded pipe



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### CONNECTION TYPES

#### Standard Connections

- 1-Conic Sealing External Threaded (Male) Connection DIN EN 10226/1
- 2-Flat Sealing External Threaded (Male) Connection DIN EN 10226/1
- 3-Conic Sealing Internal Threaded (Female) Connection DIN EN 10226/1
- 4-Flat Sealing Internal Threaded (Female) Connection DIN EN 10226/1

Connection Dimensions				
DN	ØD	R" (Male)	Rp"-Rc" (Female)	L (mm)
16	21,3	1/2"x1/2"	3/8"x3/8"	100
20	26,9	3/4"x3/4"	1/2"x1/2"	
25	33,7	1"x1"	3/4"x3/4"	
32	42,4	1 1/4"x1 1/4"	1"x1"	150
40	48,3	1 1/2"x1 1/2"	1 1/4"x1 1/4"	
50	60,3	2"x2"	1 1/2"x1 1/2"	
	70	-	2"x2"	

DN	Type	Ød Internal Diameter (mm)	ØD External Diameter (mm)	Tolerance ± mm	Wall Thickness (mm)	Bending Radius		PN bar	Surface Area	Internal Volume
						rmin (mm)	rn (mm)			
12	Standard	12,7	17,7	0,2	0,2	20	140	0-10	0,090 m²	0,177 dm³
16	Standard	15,5	20,8	0,2	0,2	28	160		0,112 m²	0,254 dm³
16	Open Pitched	16,5	21,35	0,2	0,18	25	195		0,091 m²	0,276 dm³
20	Standard	18,7	24,8	0,2	0,2	32	170		0,130 m²	0,364 dm³
20	Open Pitched	21	26,6	0,2	0,18	30	225		0,116 m²	0,450 dm³
25	Standard	24,6	31,3	0,2	0,2	40	190	0-8	0,204 m²	0,604 dm³
25	Open Pitched	25,3	31,7	0,2	0,2	35	260		0,151 m²	0,644 dm³
25	Open Pitched	24,4	31,2	0,2	0,3	35	260		0,154 m²	0,658 dm³
32	Standard	33,35	41,15	0,3	0,3	50	260	0-6	0,269 m²	1,073 dm³
32	Open Pitched	32,4	39,9	0,3	0,3	40	300		0,197 m²	1,034 dm³
40	Standard	40,7	49,8	0,4	0,4	58	290		0,248 m²	1,584 dm³
50	Standard	51,4	60,2	0,4	0,25	68	300		0,329 m²	2,472 dm³

## FIRE PROTECTION HOSES

### SPRINKLER HOSES (FM, VdS Approved)

#### APPLICATION AREAS

Fire protection systems

#### PRODUCT FEATURES

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 (Optional)
Min. Bending Radius	200mm



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HOSE DIMENSIONS (FM & VdS Approved)			
DN	CONNECTION		LENGTH (mm)
	Main Pipeline	Sprinkler	
20	DN20 (3/4") x 1/2" DN20 (1") x 1/2"		500
			700
			1000
			1200
25	DN25 (1") x 1/2"		1500
			1500
			2000

## FIRE PROTECTION HOSES

### SPRINKLER HOSES (UL Type)

#### PRODUCT FEATURES

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



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HOSE DIMENSIONS (UL Type)			
DN	CONNECTION		LENGTH (mm)
	Main Pipeline	Sprinkler	
20	DN20 (1") x 1/2"		500
25	DN25 (1") x 1/2"		700
			1000
			1200
			1500
			2000























THE WHITE BOOK



EXPANSION JOINTS  
FLEXIBLE METAL HOSES  
**LEVEL CONTROLLERS**  
STEAM EQUIPMENT  
VALVES



## SYMBOLS FOR PRODUCT FEATURES AND QUICK SELECTION

	Level Regulators		Suitable for Horizontal Installation
	Level Electrodes		Suitable for Vertical Installation
	Level Gauges		Suitable for installation in all directions
	Level Sensing Elements		Suitable for steam applications
	Float Switches		Suitable for acidic media
	Threaded Connection		Suitable for hot water applications
	Max. Operating Pressure		Suitable for Oil media
	Flange Standards		Ball Valve
			
	Max. Operating Temperature		

## LEVEL REGULATORS

### FANTINI COSMI LEVEL REGULATORS

#### APPLICATION AREAS

Steam boilers  
Pressured vessels  
Tanks

#### PRODUCT FEATURES

Body	Ductile Iron GGG 40.3
Float	Stainless Steel AISI 316
	Teflon Coated (Optional)
Shaft	Stainless Steel AISI 316
Bellow	Stainless Steel AISI 316L
Connection Types	Flanged and threaded

#### OPERATING CONDITIONS

Max. Pressure	25 bar
Max. Operating Pressure	16 bar
Switching Capacity	380 V-3A-1.1kW- A.C
	220 V-1A-220VA-D.C
Control Range	15-75mm for A1
	15-30mm for A2



DIMENSIONS	
FLANGED (DN)	SCREWED (inch)
25	1"

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## LEVEL ELECTRODES

### ELK-4/ELK-4F

#### APPLICATION AREAS

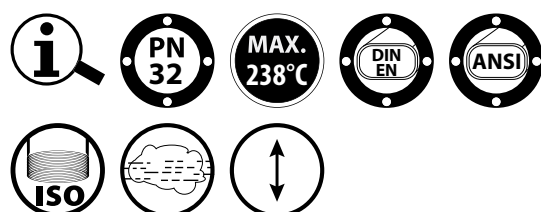
Steam boilers  
Supply tanks  
Chemical applications  
Marine application

#### 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



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## LEVEL ELECTRODES

### KP-01 CAPACITIVE LEVEL ELECTRODE

#### APPLICATION AREAS

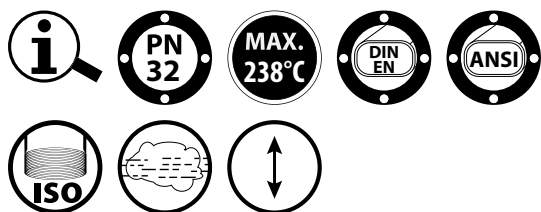
Steam boilers  
Supply tanks  
Concrete tanks  
Plastic tanks  
Marine applications

#### PRODUCT FEATURES

Body	Stainless Steel 1.4517
Box Panel	Aluminium Injection
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 24V ± 10%, 50-60 Hz
Power Consumption	5 VA
Fuse	Thermal fuse Tmax=115°C
Precision	Degree 1: Water ≥ 0.5µS/cm Degree 2: Water ≥ 20µS/cm Degree 3: Fuel Oil or 2.3
Output	4-20 m Analog Proportional



\* Please contact our sales team for our bigger lengths.

DIMENSIONS		
KP01 (Threaded) DIN ISO 228/1	KP01-F (Flanged) PN 40, DIN 2635	Length (mm)
3/4"	DN50	300 all sizes are available in between 2000



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## LEVEL GAUGES

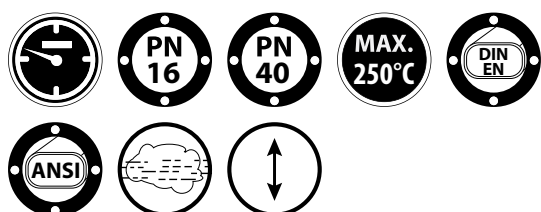
### RC-11 LEVEL GAUGE WITH SIGHT GLASS

#### 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



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## LEVEL GAUGES

### 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	25 bar
Max. Permissible Temperature	200°C
Contact Signal	Yes
Drain Plug	3/4"



\* Please contact our sales team for our bigger lengths.



DIMENSIONS	
MGK-33 (Flanged) PN 16	Length (mm)
DN15 DN20 DN25	300 all sizes are available in between 5000

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## LEVEL GAUGES

### 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"



\* Please contact our sales team for our bigger lengths.



DIMENSIONS	
MG-33 (Flanged) PN 16	Length (mm)
DN15 DN20 DN25	300 all sizes are available in between 5000

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## LEVEL GAUGES

### 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	70°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

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## LEVEL GAUGES

### MG-33S MAGNETIC LEVEL GAUGE

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

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## LEVEL GAUGES

### MG-33SC MAGNETIC LEVEL GAUGE WITH SCALE

#### APPLICATION AREAS

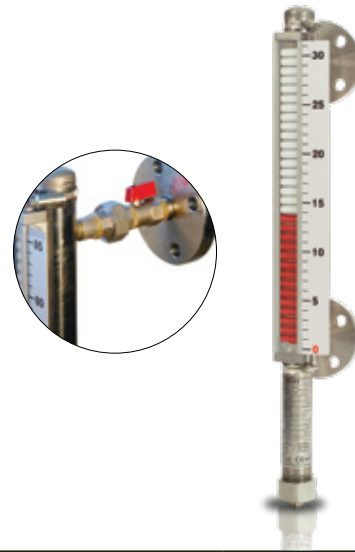
Steam boilers  
All liquid tanks  
Chemical industry  
LPG tanks, underground tanks  
Marine applications

#### 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	
MGK-33SC (Flanged) PN 10	Length (mm)
DN20	300 all sizes are available in between 3000

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## LEVEL SENSING ELEMENTS

### EG-11 DIGITAL LEVEL SENSING ELEMENT

#### APPLICATION AREAS

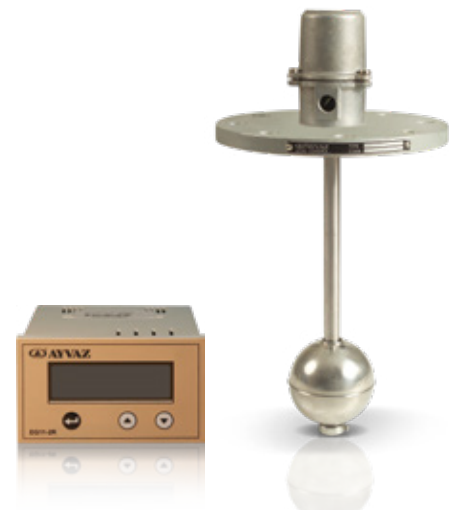
Ship building  
Waste/pure water tanks  
Food industry  
Acid tanks  
Fuel tanks  
Chemical and petrochemical tanks

#### 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



\* Please contact our sales team for our bigger lengths.



DIMENSIONS		
EG 11 (Threaded) BSP or NPT	EG 11 (Flanged) PN 10	Length (mm)
2"	DN50 DN100	300 all sizes are available in between 3000

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## LEVEL SENSING ELEMENTS

### AU-22 ANALOGUE LEVEL SENSING ELEMENT

#### APPLICATION AREAS

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

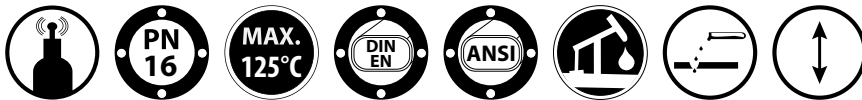
#### PRODUCT FEATURES

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



DIMENSIONS		
AU-22 (Threaded) BSP or NPT	AU-22 (Flanged) PN 10	Length (mm)
2"	DN50 DN100	300 all sizes are available in between 3000

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\* Please contact our sales team for our bigger lengths.

## LEVEL SENSING ELEMENTS

### 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



DIMENSIONS	
AU-22 (Threaded) BSP or NPT	Length (mm)
3/8"	100 all sizes are available in between 700

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\* Please contact our sales team for our bigger lengths.

## LEVEL SENSING ELEMENTS

### 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
Max. Switch Voltage	400 VAC/DC
Max. Operating Pressure	10/16 bar
Connections	3/8" Threaded
Min Density	0.8 kg/m³
Contact Types	N.O (Normally Open)
Switch Capacity	60 VA
Switch Circuit	3.0 VA



#### VERSIONS

#### AU-20 YD



#### AU-20 YK



#### AU-20 DK



#### AU-20 DD



DIMENSIONS	
AU-20 All Types	Length (mm)
3/8"	100

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## FLOW SWITCHES

### 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 pcs

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## FLOAT SWITCHES

### C-4 FLOAT SWITCH

#### APPLICATION AREAS

Water storage tanks  
Waste water tanks  
Shipbuilding  
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



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

## FLOAT SWITCHES

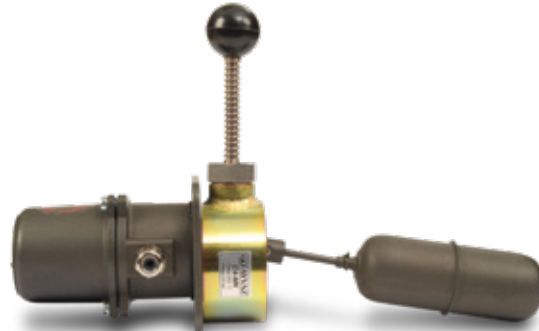
### C-4 FLOAT SWITCH WITH CONTROL UNIT

#### APPLICATION AREAS

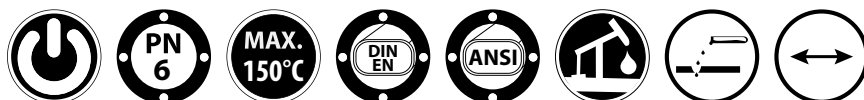
Water storage tanks  
Waste water tanks  
Shipbuilding  
Fuel tanks  
Small boilers  
Condensate tanks  
Chemical storage vessels

#### 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



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

## FLOAT SWITCHES

### C-2 FLOAT SWITCH

#### APPLICATION AREAS

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

#### PRODUCT FEATURES

Float	Stainless Steel AISI 316L
Connections	BSP Threaded (Female)
Cover	ABS
Gasket	NBR
Micro switches	16A (Normally open or closed)
Max. Operating Pressure	6 bar
Max. Operating Temperature	-20/+150°C



DIMENSIONS	
C-2 BSP Threaded (Female)	Length (mm)
1"	From flange to the end of the float 170 mm

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## FLOAT SWITCHES

### KTS-50 FLOAT VALVE

#### APPLICATION AREAS

Water storage tanks  
Waste water tanks  
Small boilers  
Condensate tanks

#### PRODUCT FEATURES

Float	Stainless Steel AISI 316L
Body	Carbon Steel
Movement Parts	Stainless Steel 304
O-Ring	EPDM
Closing Valve Gasket	PTFE
Max. Operating Pressure	6/8 bar
Max. Operating Temperature	90°C
Connection	3/4" Male



DIMENSIONS			
Float Type	ØD0 (mm)	ØD (mm)	PN
Standard Float	150	156	6
Large Float	220	245	8

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THE WHITE BOOK



EXPANSION JOINTS  
FLEXIBLE METAL HOSES  
LEVEL CONTROLLERS  
**STEAM EQUIPMENT**  
VALVES



## SYMBOLS FOR PRODUCT FEATURES AND QUICK SELECTION



Float Type Steam Traps



Thermodynamic Steam Traps



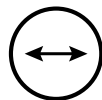
Thermostatic Steam Traps



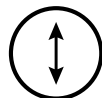
Max. Product Pressure



Flange Connections



Horizontal Installation



Vertical Installation



Installation on both direction



Condensate



Threaded Connection



Max. Product Temperature





## SELECTION OF STEAM TRAPS

In order to get maximum efficiency and service life from the steam lines and, and steam related systems, it is crucial to make the correct steam trap selection. The point of view on the steam traps which defines all the traps in the same conception that is "a trap is a trap" may cause un-anticipated and high operating costs and affect the quality of work relatively.

Understanding the importance of the correct steam trap selection is the key factor of the high efficiency and low operating costs for steam systems.

### Mechanical Designs:

Mechanical trap operation relies on the movement of open or closed floating parts to activate the valve.

- Float type steam traps with thermostatic air vent use a sealed spherical float which becomes buoyant when the condensate level in the trap rises and actuates the valve. It is unaffected by instantaneous pressure changing.

These type of steam traps specially used where prompt and continuous discharge of condensate is necessary.

### Thermostatic Steam Traps:

Thermostatic traps operate with the temperature changes of the condensate, a falling temperature opens the valve and an increasing temperature closes the valve. Valve movement is adjusted by a thermostatic capsule.

- The increase in volume collected by the vaporization of liquid raises the vapour pressure inside the capsule. At some point internal pressure of the capsule becomes greater than the system pressure and the diaphragm is forced to extend in the direction of the valve and close the valve. As the temperature reduces the vapour pressure in the capsule reduces and make diaphragm to relax and open the valve.

### Thermodynamic Steam Traps:

These type of steam traps operate by the internal pressure difference of the steam and the condensate.

- Condensate that reaches to the trap raises the disc and open the orifice and flow continuously by the help of the steam pressure which is behind the condensate through the discharge orifice.

The following table is given to prevent the confusion of the steam trap selection and to help selection of the most appropriate product accordingly.

STEAM TRAP SELECTION TABLE				
APPLICATION		STEAM TRAP CHOICE		
		1st	2nd	3rd
Steam Main Lines		TDK	TKK	SK
Tracing		TKK	BT	TDK
Tanks	Storage Tanks	SK	TKK/3	-
	Oil Tanks			
	Evaporators			
	Blenders			
	Fuel-oil Tanks			
	Suction Heaters			
Heating Equipment	Unit Heaters	TKK	SK	TKK/3
	Sugar Dryers			
	Drying Rooms			
	Greenhouse Coils			
Pans	Jacketed Pans	SK	TKK/3	TKK
	Tilting Kettles			
	Brew Kettles			
	Candy Kettles			
	Cheese Kettles			
	Submerged Coils			
Heat Exchangers	Plating Tanks	SK	TKK/3	-
	Fuel-oil Preheaters			
	Water Heaters			
Drying Cylinders	Paper Dryers	SK	TKK/3	-
	Pulp Dryers			
	Rotary Dryers			
	Calenders			
Preses	Plywood presses	TKK	TDK	BT
	Molding Presses			
	Tire Mold Presses			
	Milk Dryers			
Ovens	Autoclaves	SK	TKK	BT
	Drum Dryers			
	Streilizers			
Irons	Manual Irons	TDK	SK	TKK
	Press Irons			
Turbines		TDK	BT	-
Marine Applications		TDK	BT	TKK

**TKK** : Thermostatic Steam Trap  
**TKK/3** : Thermostatic Steam Trap with 3 capsules  
**TDK** : Thermodynamic Steam Trap  
**BT** : Bi-Metalic Steam Trap  
**SK** : Float Type Steam Trap

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-50

### APPLICATION AREAS

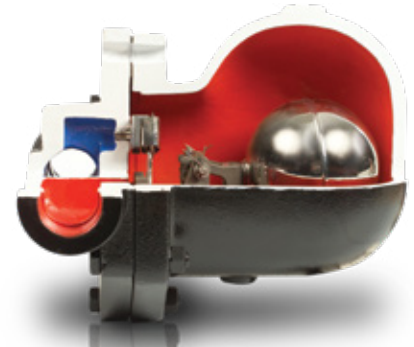
Tanks, pans, heat exchangers, drying cylinders, ovens

### PRODUCT FEATURES

Body and Cover	1" Ductile Iron GGG-40.3 1 1/4"-2" Cast Iron GG-25
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
Max. Differential Pressure (ΔP)	4,5-10-14



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

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-50B

### APPLICATION AREAS

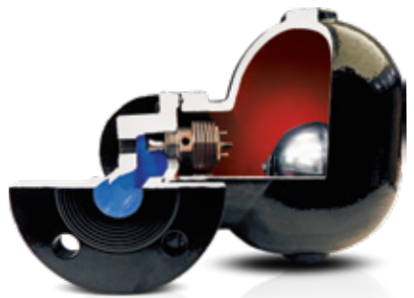
Tanks, pans, heat exchangers, drying cylinders, ovens

### PRODUCT FEATURES

Body and Cover	1" Ductile Iron GGG-40.3 1 1/4"-2" Cast Iron GG-25
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
Max. Differential Pressure (ΔP)	4,5-10-14



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

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-51/SK-51C

### APPLICATION AREAS

Tanks, pans, heat exchangers, drying cylinders, ovens

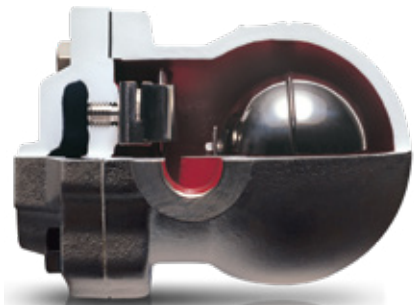
### PRODUCT FEATURES

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

\* SK-51C: The thermostatic unit can be disabled by balance rod.

### OPERATING CONDITIONS

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



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

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-51 SLR

### 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	Flanged and threaded

\* SK-51C: The thermostatic unit can be disabled by balance rod.

### OPERATING CONDITIONS

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



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

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-55

### APPLICATION AREAS

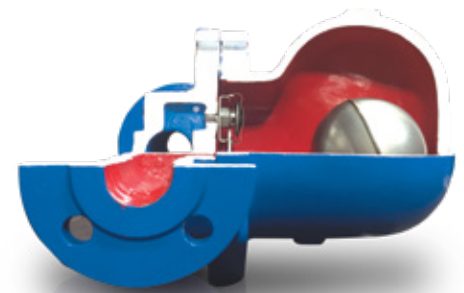
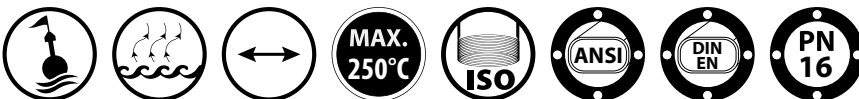
Tanks, pans, heat exchangers, drying cylinders, ovens

### PRODUCT FEATURES

Body and Cover	Cast Iron GG 25
Internals and float	Stainless Steel
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



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

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-55 WITH SIGHT GLASS

### APPLICATION AREAS

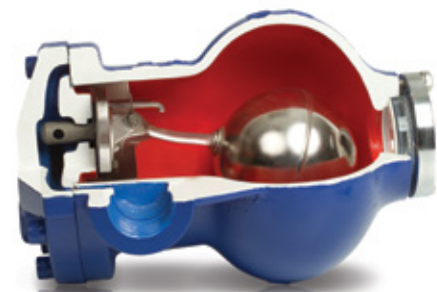
Tanks, pans, heat exchangers, drying cylinders, ovens

### 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



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

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-61/SK-61C

### APPLICATION AREAS

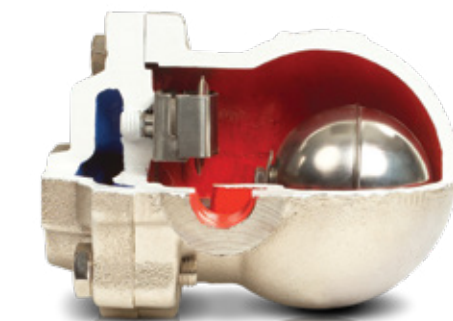
Tanks, pans, heat exchangers, drying cylinders, ovens

### PRODUCT FEATURES

Body and Cover Stainless Steel AISI 316  
Internals and float Stainless Steel  
Connection Types Flanged and threaded  
\* SK-61C: The thermostatic unit can be disabled by balance rod.

### OPERATING CONDITIONS

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



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

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-61 WITH SIGHT GLASS

### APPLICATION AREAS

Tanks, pans, heat exchangers, drying cylinders, ovens

### PRODUCT FEATURES

Body and Cover Stainless Steel AISI 316  
Internals and float Stainless Steel  
Connection Types 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



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

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-70

### APPLICATION AREAS

Tanks, pans, heat exchangers, drying cylinders, ovens

### PRODUCT FEATURES

Body and Cover Cast Steel GSC 25  
Internals and float Stainless Steel  
Connection Types Flanged and threaded

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 25 bar  
Body Pressure Class PN32  
Max. Operating Temperature (TMO) 250°C  
Differential Pressure (ΔP) 4,5-10-14



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



## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-70 WITH SIGHT GLASS

### APPLICATION AREAS

Tanks, pans, heat exchangers, drying cylinders, ovens

### PRODUCT FEATURES

Body and Cover	Cast Steel GSC 25
Internals and float	Stainless Steel AISI 304
Connection Types	Flanged and threaded

### OPERATING CONDITIONS

Max. Operating Pressure (PMO)	32 bar
Max. Operating Temperature (TMO)	250°C
Differential Pressure (ΔP)	4,5-10-14



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

## FLOAT TYPE STEAM TRAPS WITH AIR VENT SK-80

### APPLICATION AREAS

Tanks, pans, heat exchangers, drying cylinders, ovens

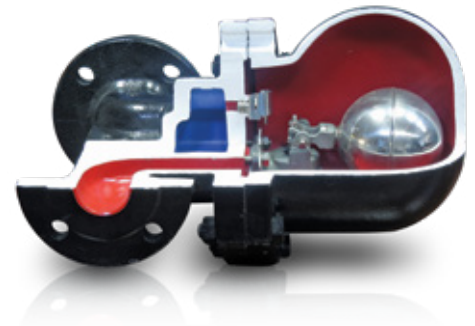
### PRODUCT FEATURES

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

\* SK-51C: The thermostatic unit can be disabled by balance rod.

### OPERATING CONDITIONS

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



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

## INVERTED BUCKET STEAM TRAPS BT-16

### 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	threaded

### OPERATING CONDITIONS

Max. Operating Pressure (PMO)	16 bar
Max. Operating Temperature (TMO)	220°C
Differential Pressure (ΔP)	5,4-8,5-15,5



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DIMENSIONS	
THREADED (inch)	
1/2"	
3/4"	
1"	



## FREE FLOAT TYPE STEAM TRAPS

### SFK-40

#### APPLICATION AREAS

Tanks, pans, heat exchangers, drying cylinders, ovens

#### PRODUCT FEATURES

Body and Cover	Ductile Iron GGG 40.3
Float	Stainless Steel
Filter and Shooter Air Unit	Stainless Steel

#### OPERATING CONDITIONS

Max. Operating Pressure (PMO)	16 bar
Max. Operating Temperature (TMO)	220°C
Differential Pressure (ΔP)	4,5-10-14 bar



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

## FREE FLOAT TYPE STEAM TRAPS

### SFK-61

#### APPLICATION AREAS

Tanks, pans, heat exchangers, drying cylinders, ovens

#### PRODUCT FEATURES

Body and Cover	Stainless Steel AISI 316
Float	Stainless Steel AISI 304
Filter and Shooter Air Unit	Stainless Steel AISI 304

#### OPERATING CONDITIONS

Body Pressure Class	PN25
Max. Operating Pressure (PMO)	25 bar
Operating Temperature Range	-10/+220 °C
Max. Operating Temperature (TMO)	220°C
Differential Pressure (ΔP)	4,5-10-14 bar



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

## FREE FLOAT TYPE STEAM TRAPS

### SFK-70

#### APPLICATION AREAS

Tanks, pans, heat exchangers, drying cylinders, ovens

#### PRODUCT FEATURES

Body and Cover	Cast Steel
Internals and float	Stainless Steel AISI 304
Connection	Threaded, Flanged, Weld end

#### OPERATING CONDITIONS

Body Pressure Class	PN32
Max. Operating Pressure (PMO)	25 bar
Max. Operating Temperature (TMO)	220°C
Differential Pressure (ΔP)	4,5-10-14 bar



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

## THERMODYNAMIC STEAM TRAPS

### TDK-45

#### 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

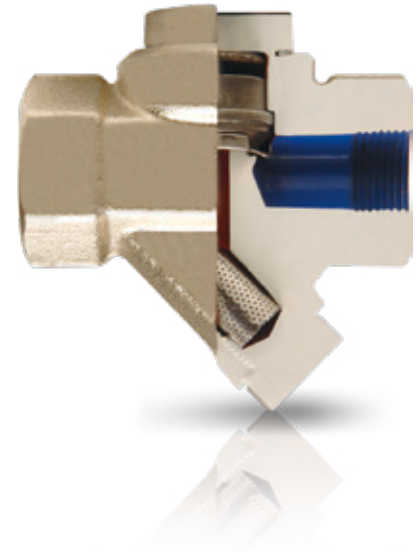


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#### DIMENSIONS

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



## THERMODYNAMIC STEAM TRAPS

### TDK-71

#### APPLICATION AREAS

Main steam lines  
Turbines  
Marine applications  
Presses  
Irons

#### PRODUCT FEATURES

Body	Stainless Steel AISI 304
Cover	Stainless Steel AISI 304
Strainer,disc,seat	Stainless Steel AISI 304
Connection Types	Threaded

#### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 42 bar  
Body Pressure Class PN63  
Max. Operating Temperature (TMO) 400°C



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#### DIMENSIONS

THREADED (inch)
1/2"
3/4"
1"



## BI-METALLIC STEAM TRAP TK-1

### APPLICATION AREAS

Drying units  
Pressing units  
Steam jacket pipelines  
Convactor heaters  
Heaters

### 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"
32	1 1/4"
40	1 1/2"
50	2"

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## THERMOSTATIC STEAM TRAPS HTT-6

### APPLICATION AREAS

Hygienic Applications  
Food and Beverage Industries

### PRODUCT FEATURES

Body and Coupling	Stainless Steel AISI 316L
Seat - Gasket	PTFE, Teflon
Thermostatic Capsule	Hastelloy - Stainless Steel
Connections	Socket

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 6 bar  
Max. Operating Temperature (TMO) 140°C



## THERMOSTATIC STEAM TRAPS TKK-2Y

### APPLICATION AREAS

Sugar dryers  
Unit heaters  
Plywood dryers  
Irons  
Ovens

### PRODUCT FEATURES

Body and Cover	Forged Steel
Strainer, Seat	Stainless Steel AISI 304
Thermosatic Capsule	Hastelloy
Check Valve	Brass MS 58
Connections	Flanged, Threaded, Socket

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 32 bar  
Max. Operating Temperature (TMO) 250°C



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



## THERMOSTATIC STEAM TRAPS TKK-2N

### APPLICATION AREAS

Drying units  
Pressing units  
Steam jacket pipelines  
Convactor heaters  
Heaters

### PRODUCT FEATURES

Body and Cover	Forged Steel
Strainer, Seat	Stainless Steel AISI 304
Thermosatic Capsule	Hastelloy - Stainless Steel
Check Valve	Brass MS 58
Connections	Flanged, Threaded and Socket

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 32 bar  
Max. Operating Temperature (TMO) 250°C



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



## THERMOSTATIC STEAM TRAPS TKK-21

### APPLICATION AREAS

Sugar dryers  
Unit heaters  
Plywood dryers  
Irons  
Ovens

### PRODUCT FEATURES

Body and Cover	Forged Steel
Strainer, Seat	Stainless Steel AISI 304
Thermostatic Capsule	Hastelloy
Connections	Threaded

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 32 bar  
Max. Operating Temperature (TMO) 250°C



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DIMENSIONS	
THREADED (inch)	
1/4"	
3/8"	
1/2"	

## THERMOSTATIC STEAM TRAPS TKK-41/42

### APPLICATION AREAS

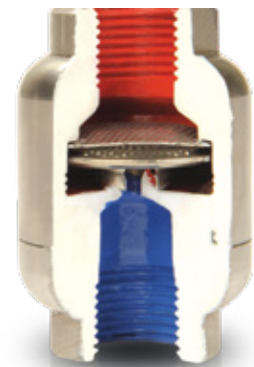
Drying units  
Pressing units  
Steam jacket pipelines  
Convactor heaters  
Heaters

### PRODUCT FEATURES

Body	Stainless Steel AISI 304 (TKK-41) Stainless Steel AISI 316 (TKK-42)
Thermostatic Capsule	Hastelloy
Strainer, seat	Stainless Steel AISI 304
Connection Types	Threaded

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 45 bar  
Max. Operating Temperature (TMO) 250°C



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DIMENSIONS	
THREADED (inch)	
1/2"	
3/4"	
1"	



## THERMOSTATIC STEAM TRAPS HK-23 SUPER CONDENSATE RELEASER

### APPLICATION AREAS

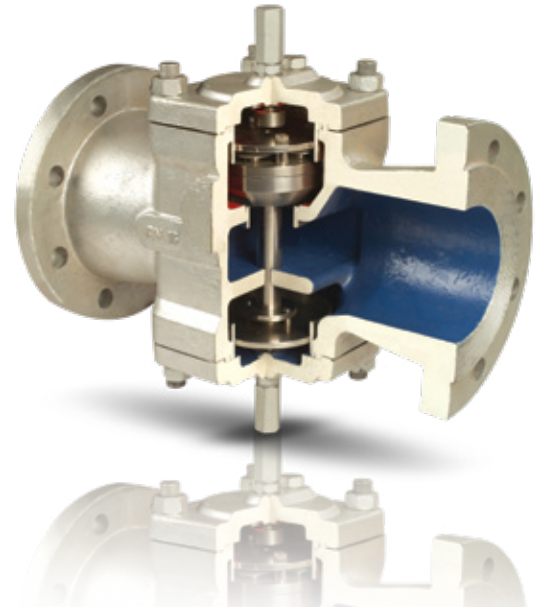
Sugar industry  
Heating batteries  
Pans  
Ovens  
Drying cylinders

### PRODUCT FEATURES

Body	Ductile Iron GGG 40.3
Cover	Ductile Iron GGG 40.3
Thermostatic Capsule	Hastelloy & Stainless Steel
Internals	Stainless Steel AISI 304
Connections	Flanged

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 21 bar  
Max. Operating Temperature (TMO) 250°C



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### DIMENSIONS

#### FLANGED (DN)

50  
65  
80  
100

## THERMOSTATIC STEAM TRAPS TKK-3 WITH 3 CAPSULES

### APPLICATION AREAS

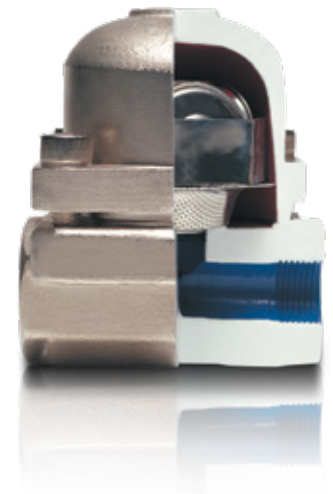
Drying units  
Pressing units  
Steam jacket pipelines  
Convactor heaters  
Heaters

### PRODUCT FEATURES

Body and Cover	Forged Steel
Thermostatic Capsule	Stainless Steel AISI 304
Strainer, seat	Stainless Steel AISI 304
Connection Types	Threaded

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 32 bar  
Max. Operating Temperature (TMO) 250°C



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### DIMENSIONS

#### FLANGED (DN)

#### THREADED AND WELDED (inch)

15	1/2"
20	3/4"
25	1"
32	1 1/4"
40	1 1/2"
50	2"

## VACUUM BREAKERS

### VK-70

#### 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



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DIMENSIONS
THREADED (mm)
1/2"



## VACUUM BREAKERS

### VK-71

#### 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



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DIMENSIONS
THREADED (mm)
1/2"



## THERMOSTATIC AIR DRAINERS TKK-11 AIR ELIMINATOR

### APPLICATION AREAS

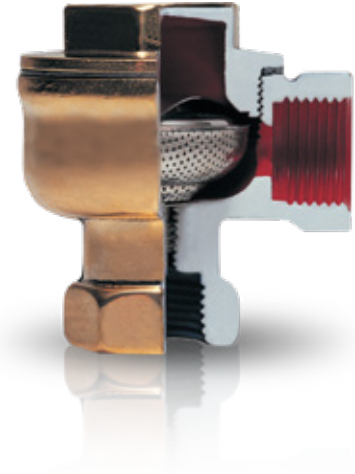
Irons  
Radiators  
Textile industry  
Unit heaters  
Plywood dryers

### PRODUCT FEATURES

Body and Cover	Brass
Thermostatic Capsule	Hastelloy
Internals	Stainless Steel AISI 304
Connections	Threaded

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 10 bar  
Max. Operating Temperature (TMO) 150°C



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DIMENSIONS
THREADED (mm)
1/4"
3/8"
1/2"

## THERMOSTATIC AIR DRAINERS TKK-61 AIR ELIMINATOR

### APPLICATION AREAS

Irons  
Radiators  
Textile industry  
Unit heaters  
Plywood dryer

### PRODUCT FEATURES

Body and Cover	Brass
Thermostatic Capsule	Hastelloy
Internals	Stainless Steel AISI 304
Connections	Threaded

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 10 bar  
Max. Operating Temperature (TMO) 150°C



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DIMENSIONS
THREADED (mm)
1/2"

## FLOAT TYPE AIR DRAINERS 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



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

## FLOAT TYPE AIR DRAINERS 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



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DIMENSIONS	
FLANGED (DN)	THREADED (inch)
25	1"

## FLOAT TYPE AIR DRAINERS HA-52/62

### APPLICATION AREAS

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

### PRODUCT FEATURES

Body and Cover

Internals and float  
Connections

Ductile Iron GGG 40.3 (HA-52)  
Stainless Steel AISI 316 (HA-62)  
Stainless Steel AISI 304  
Threaded

### OPERATING CONDITIONS

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



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DIMENSIONS

THREADED (inch)

3/4" x 1/2"



## PRESSURE REDUCING VALVE BDV-25

### APPLICATION AREAS

High pressurized steam lines  
Gas lines  
Compressed air applications

### PRODUCT FEATURES

Body  
Shaft, Seat, Strainer  
Internals  
Connections

Ductile Iron GGG 40.3  
Stainless Steel AISI 304  
Stainless Steel AISI 304  
Threaded

### OPERATING CONDITIONS

Max Inlet Pressure 19 bar  
Max. Outlet Pressure 8.6 bar  
Set Pressure 0,14-1,7 bar  
1,4-4,0 bar  
3,5-8,6 bar  
Max. Operating Temperature 210°C



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DIMENSIONS

THREADED (inch)

1/2"  
3/4"  
1"





## PILOT INFLUENCED PRESSURE REDUCERS

### GP-2000

#### APPLICATION AREAS

Steam Applications  
Food and Beverage Industry  
Textile

#### PRODUCT FEATURES

Body	Ductile Iron GGG 40.3
Main and Pilot Valve Seats, Diaphragm	Stainless Steel
Connections	Flanged and Threaded

#### OPERATING CONDITIONS

Max. Operating Pressure (PMO)	20 bar
Max. Operating Temperature (TMO)	220 °C
Field Settings	(0,2-1,5 bar) / (1-14 bar)
Spring Colour	Yellow (0,2-1,5 bar) / Green (1-14 bar)



DIMENSIONS	
Flanged (DN)	Threaded (inch)
15 ... 150	1/2" ... 2"

## PRESSURE REDUCING VALVES

### AGD-30

#### APPLICATION AREAS

Steam Applications  
Food and Beverage Industry  
Textile

#### PRODUCT FEATURES

Body	Bronze Casting
Main Valve Seat	Stainless Steel
Diaphragm	Bronze
Connections	Threaded

#### OPERATING CONDITIONS

Max Inlet Pressure	17 bar (PN20)
Max. Outlet Pressure	8,6 bar
Set Pressure	B Type 0,5-4 bar C Type 3,5-10 bar
Max. Operating Temperature	210 °C



DIMENSIONS	
THREADED (inch)	
1/2"	
3/4"	
1"	
1 1/2"	
2"	

## INVERTED BUCKET STEAM TRAPS BT-16

### APPLICATION AREAS

Steam Applications  
Marine Industry  
Petrol Tank Preheater

### PRODUCT FEATURES

Body	Ductile Iron GGG 40.3
Cover	Ductile Iron GGG 40.3
Internals and Float	Stainless Steel
Connection Types	Threaded

### OPERATING CONDITIONS

Max. Operating Pressure (PMO)	16 bar
Max. Operating Temperature (TMO)	220 °C
Max. Differential Pressure (ΔP)	5,4-8,5-15,5



DIMENSIONS	
Threaded (Inch)	
1/2"	
3/4"	
1"	

## ACOP CONDENSATE PUMP SYSTEM

### OPERATING CONDITIONS

Steam Pressure Range	2-10 bar
Air Pressure	4-6 bar
Power Supply	230 V AC 50 Hz
Design Pressure	11 bar
Design Temperature	187 °C
Evacuation Capasite in one time	25 lt
Steam Consumption	3 kg/1000 kg condensate



DISCHARGE CAPACITIES (kg/h)	
100i	550-775
200i	1150-1370
300i	2550-3400
400i	3460-4510
500i	4520-6620
600i	11070-16470

## FLOAT TYPE LIQUID DRAINERS 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



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



## FLOAT TYPE LIQUID DRAINERS SA-50 LIQUID ELIMINATOR

### APPLICATION AREAS

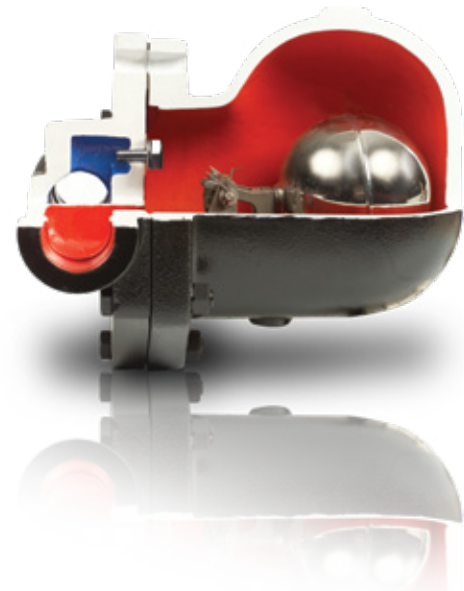
Compressor  
Heat exchangers  
Heating batteries and ovens  
Tanks and pans  
Drying cylinders

### 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



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



## STEAM SEPERATOR SPR-16/25/40

### APPLICATION AREAS

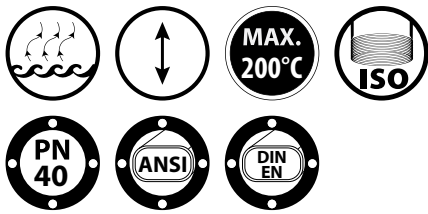
Steam lines  
Gas applications

### PRODUCT FEATURES

Body Carbon Steel / Stainless Steel (Optional)  
Internals Stainless Steel AISI 304  
Connections Flanged

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 16/25/40 bar  
Max. Operating Temperature (TMO) 200°C



DIMENSIONS		
PN	FLANGED (DN)	THREADED (inch)
16	15	1/2"
	20	
	25	
	32	
25	40	3/4"
	50	
	65	
	80	
40	100	1"
	125	
	150	
	200	



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## CONDENSATE CONNECTION MANIFOLD KT-13

### APPLICATION AREAS

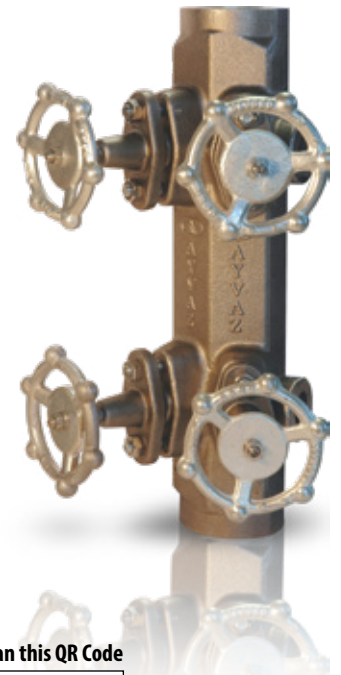
Steam lines  
Steam distribution  
Condensate collection

### PRODUCT FEATURES

Body Carbon Steel C 22.8  
Internals Stainless Steel  
Volan Carbon Steel  
Connections Threaded/Socket

### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 26 bar  
Max. Operating Temperature (TMO) 250 °C  
KV Valve 1.8 m³/s



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DIMENSIONS	
THREADED (mm)	
1/2"	
3/4"	

## PIPELINE CONNECTORS

### BK-33 (TD-SK)

#### APPLICATION AREAS

Steam tracing lines  
Pressing units  
Steam jacket pipelines  
Irons  
Drying units

### BK-33 TD (THERMODYNAMIC)

Body	Stainless Steel AISI 304
Seat and Disc	Stainless Steel AISI 420
Internals	Stainless Steel
Volan	Carbon Steel
Connections	Threaded/Socket

#### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 42 bar  
Max. Operating Temp. (TMO) 315°C



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#### DIMENSIONS

THREADED,  
SOCKET (inch)

1/2"  
3/4"

### BK-33 SK (FLOAT TYPE)

Body and Cover	Stainless Steel AISI 304
Internals and Float	Stainless Steel AISI 304
Thermostatic Unit	Stainless Steel AISI 304
Volan	Carbon Steel
Connections	Threaded/Socket

#### OPERATING CONDITIONS

Max. Operating Pressure (PMO) 32 bar  
Max. Operating Temp. (TMO) 286°C  
Differential Pressure 4,5/10/14 bar



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#### DIMENSIONS

THREADED,  
SOCKET (inch)

1/2"  
3/4"



## PIPELINE CONNECTORS

### BK-33 (TK-BM)

#### APPLICATION AREAS

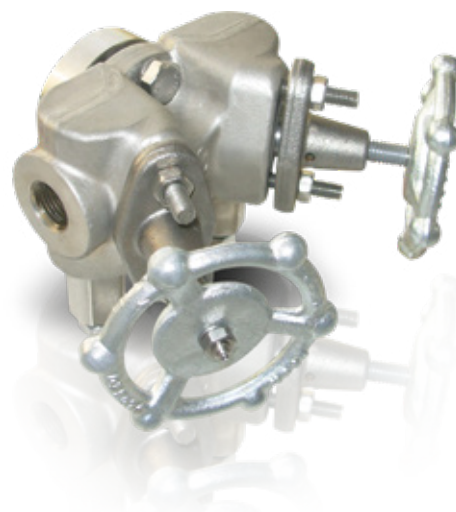
Steam tracing lines  
Pressing units  
Steam jacket pipelines  
Irons  
Drying units

### BK-33 TK (THERMOSTATIC)

Body and Cover	Stainless Steel AISI 304
Capsule	Stainless Steel
Internals	Stainless Steel
Volan	Carbon Steel
Connections	Threaded/Socket

#### OPERATING CONDITIONS

Max. Operating Pressure (PMO)	32 bar
Max. Operating Temp. (TMO)	240°C
Differential Pressure	21 bar



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#### DIMENSIONS

THREADED,  
SOCKET (inch)

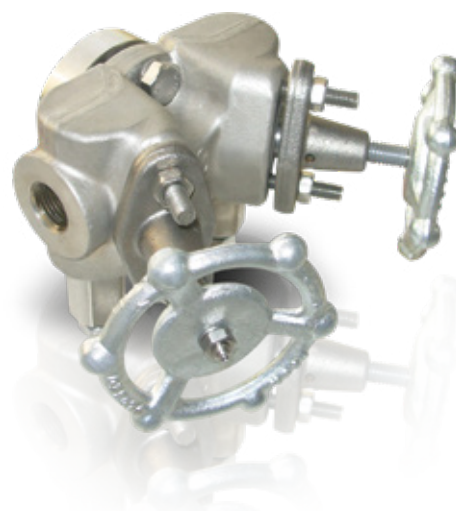
1/2"  
3/4"

### BK-33 BM (BI-METALLIC)

Body	Stainless Steel AISI 304
Bi-metallic Plates	Stainless Steel AISI 304
Internals	Stainless Steel AISI 304
Volan	Carbon Steel
Connections	Threaded/Socket

#### OPERATING CONDITIONS

Max. Operating Pressure (PMO)	32 bar
Max. Operating Temp. (TMO)	315°C
Differential Pressure	32 bar



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#### DIMENSIONS

THREADED,  
SOCKET (inch)

1/2"  
3/4"

## KTV-10 STEAM TRAP TEST VALVE

### APPLICATION AREAS

Food industry  
Chemical plants  
Heating air-conditioning systems  
Shipbuilding  
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, Flanged	Threaded, Flanged
Nominal Pressure (PN)	40 bar	40 bar
Max. Operating Temp.	-50/+210°C	-50/+210°C



DIMENSIONS	
FLANGED (DN)	THREADED (inch)
DN15	1/2"
DN20	3/4"
DN25	1"
DN32	1 1/4"
DN40	1 1/2"
DN50	2"

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## PKV-50 PNEUMATIC CONTROL ON/OFF VALVE

### APPLICATION AREAS

Food industry  
Chemical plants  
Pharmaceutical industry  
Paper mills

### PRODUCT FEATURES

Body Material	Stainless Steel AISI 316
Gasket	PTFE
Connection Type	Threaded
Nominal Pressure (PN)	16 bar
Max. Operating Temp.	180°C



DIMENSIONS	
THREADED (mm)	
1/2"	
3/4"	
1"	
1 1/4"	
1 1/2"	
2"	

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## BLOWDOWN SYSTEMS

### DBV-10 BOTTOM BLOWDOWN VALVE

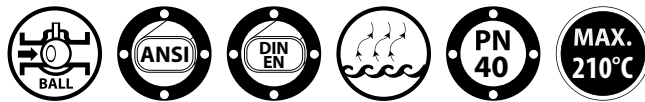
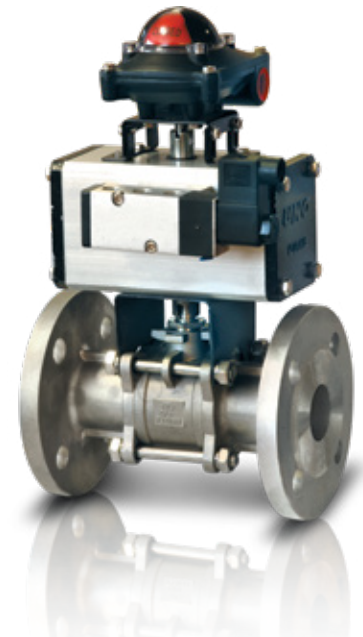
#### APPLICATION AREAS

Steam boilers (Safety)

#### System Elements

3 Pieced Ball Valve (V-3FP)  
Timer  
Pnuematic Actuator  
Selenoid Valve  
Limit Switch

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#### FLANGED

DN40

Please contact our sales team for customized dimensions.

#### PRODUCT FEATURES DBV-10

BALL VALVE		PNEUMATIC ACTUATOR	
Body Material	Stainless Steel AISI 304/316	Body Material	Epoxy Coated Aluminium Injection
Ball Material	Stainless Steel AISI 304/316	Pistons	Aluminium Cast
Stem	Stainless Steel AISI 304/316	Shaft Material	Cadmium Coated Steel
Body Gasket	PTFE	Tightness Component	Nitrile Rubber
Ball Seat	R-PTFE (15%)	Valve Connection	Standard
Nominal Pressure (PN)	40 bar		
Max. Operating Temp.	-50/+210°C		

## BLOWDOWN SYSTEMS

### YBS-10 SURFACE BLOWDOWN SYSTEM

#### APPLICATION AREAS

Steam boilers (Safety)

#### System Elements

DN20, PN 40 Forged Steel Bellow Sealed Stop Valve  
DN20, PN 40 Stainless Steel Disc Check Valve  
Conductivity Measuring Probe  
Conductivity Transmitter (with LCD screen)  
Digital Regulator  
Surface Control Valve with Electric Motor  
Anti corrosion Control Panel  
Service Support Before Installation



#### FLANGED

DN20

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## FLASH STEAM RECOVERY SYSTEM AFBT

**APPLICATION AREAS**  
Steam Applications

**PRODUCT FEATURES**  
Body St 37 Carbon Steel

**OPERATING CONDITIONS**  
Max. Operating Pressure (PMO) 13 bar  
Max. Operating Temp. (TMO) 200 °C  
Connection Flanges PN 16



STEAM CAPACITIES	
Type	Flash Steam (kg/h)
AFBT1	225
AFBT2	450
AFBT3	900
AFBT4	1.150
AFBT5	1.800
AFBT6	2.050
AFBT7	3.200
AFBT8	5.100



## COMPACT DEAERATOR HEAD & SYSTEM ASD

**APPLICATION AREAS**  
Steam Applications

**PRODUCT FEATURES**  
De-Aerator Cover Stainless Steel  
Immersion Tube Stainless Steel

**OPERATING CONDITIONS**  
Design Pressure 7 bar  
Design Temperature 180 °C



CONDENSATE CAPACITIES	
Type	Condensate (kg/h)
ASD 150	5.000 kg/h
ASD 200	10.000 kg/h
ASD 250	20.000 kg/h
ASD 300	30.000 kg/h



## DE-SUPERHEATER ADES-10

**APPLICATION AREAS**  
Steam boilers (Safety)

**System Elements**

Body A 116 gr B 7A335 P11  
Nozzle Stainless Steel AISI 316  
Pressure Class PN16 / PN160 - ANSI 150 / ANSI 2500



DIMENSIONS	
Line Type	DN
Water	DN15 ... DN50
Steam Immersion	DN100 ...DN250
Steam Line	DN150 ... DN500



## CONDENSATE POLLUTION CONTROL SYSTEM KKS-10

**APPLICATION AREAS**  
Steam Applications

**System Elements**

- Stainless Disc Checkvalve
- Double Effective Pneumatic Actuated Stainless Ball Valve Normally Open
- Double Effective Pneumatic Actuated Stainless Ball Valve Normally Closed
- Conductivity Transmitter B&C Electronic C3600 4-20mA (110x90x60mm)
- Conductivity Sensor Sensorex CS675 HTTC 250 Psi 200C 1" Diving Length  
Sensor Diameter 19mm Cable Side 3/4ADK-100 Controller
- Stainless Ball Valve Threaded 304 Quality



FLANGED	
DIMENSIONS	DN20
	Please contact our sales team for customized dimensions.





## BS-10 VORTEX STEAM FLOW METER

### PRODUCT FEATURES

Fluid	Steam, Water, Air
Sensitivity	+/- %1
Safety Class	IP 67
Connections	Immersion / Flanged

### OPERATING CONDITIONS

Max. Working Pressure (PMO)	150 bar
Max. Working Temperature (TMO)	4-20 MA output and Alarm Setting Plus ve Hart Protocol
Power Supply	24V



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DIMENSIONS

FLANGED (mm)

50...300

THE WHITE BOOK



EXPANSION JOINTS  
FLEXIBLE METAL HOSES  
LEVEL CONTROLLERS  
STEAM EQUIPMENT  
**VALVES**



## SYMBOLS FOR PRODUCT FEATURES AND QUICK SELECTION



Check Valve



Ball Valve



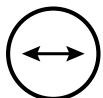
Butterfly Valve



Globe Valve



Gate Valve



Horizontal Installation



Vertical Installation



Installation in all directions



Threaded Connection



Flange Connections



Max Product Temperature



Max. Product Pressure



Suitable for hot water



Suitable for drinking water



Suitable for Oil media



Suitable for Gaseous media



## 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. Work. Temperature	200°C	250°C	300°C
	Max. Working Pressure	16 bar	25 bar	40 bar



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## BELLOW 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



		MK-16	MK-25	MK-40
FEATURES	Body	Grey Cast Iron EN-GJL-250	Nodular Cast Iron EN-GJS-400	Cast Steel
	Seat Ring	X12Cr13	X12Cr13	-
	Disc	X12Cr13	X12Cr13	X20Cr13 1.4021
	Bellow	X6CrNiMoTi-17-12-2	X6CrNiMoTi-17-12-2	X6CrNiTi-18-10
	Connection	Flanged	Flanged	Flanged
	Max. Temperature	300 °C	350 °C	400 °C
	Max. Pressure	16 bar	25 bar	40 bar
	Nominal Diameter	DN 15-250	DN 15-250	DN 15-250

## GATE VALVES

### GTK-16 NON-RISING STEM, SOFT SEATED GATE VALVE

#### APPLICATION AREAS

Chemical applications  
Petrochemical plants  
Oil refineries  
Power plants  
Hot and cold water applications

#### PRODUCT FEATURES

Body	Ductile Iron GGG 40.3
Disc	Rubber Coated Cast Iron
Gasket	NBR/EPDM
Connection	Flanged
Max. Operating Temp.	110°C
Max Operating Pressure	2,5/6/10/16 bar



DIMENSIONS	FLANGED (DN)
	DN40 all sizes are available in between DN1200

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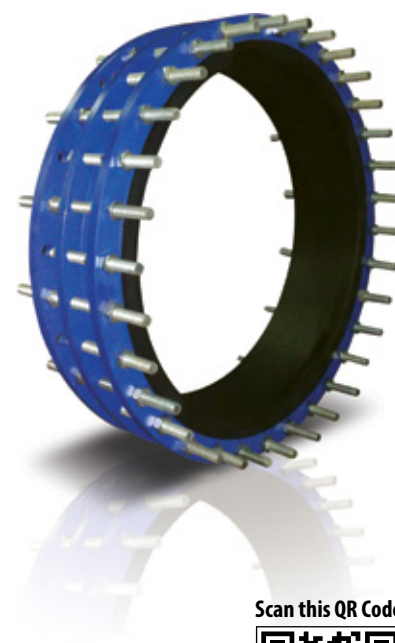
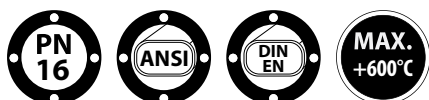
## DISMANTLING JOINT

#### APPLICATION AREAS

Servicing the expansion joints in pipelines  
Continue the flow in required direction  
Pumps, motors, machines, compressors  
Industrial pipeline construction  
Gas and water supply

#### DISMANTLING JOINT

Body Material	Cast Iron GGG 40 & GGG 50
Nominal Diameter	DN100 (4") - DN2200 (88")
Operating Pressure	16 bar
Operating Temperature	-80°C/+600°C
Connection Types	Fixed Flanged
Bolts and Nuts	Stainless Steel x Cr13



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## CHECK VALVES

### CV-10 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



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	PRODUCT FEATURES		
	CV-10P	CV-10S1	CV-10S2
Body Material	Brass Ms58	Stainless Steel AISI 304	Stainless Steel AISI 316
Disc Material	Stainless Steel AISI 316	Stainless Steel AISI 316	Stainless Steel AISI 316
Centering Hoop	Stainless Steel AISI 302	Stainless Steel AISI 302	Stainless Steel AISI 302
Spring Material	Stainless Steel AISI 302	Stainless Steel AISI 302	Stainless Steel AISI 302
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

## CHECK VALVES

### CV-11 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



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	PRODUCT FEATURES		
	CV-11	CV-11S1	CV-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 AISI 316	Stainless Steel AISI 304	Stainless Steel AISI 316
Spring Material	Stainless Steel AISI 302	Stainless Steel AISI 302	Stainless Steel AISI 302
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	100°C	300°C	300°C

CV-11 Product Dimensions and Opening Pressures (m bar)				
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

CV-11 S1-S2 Product Dimensions and Opening Pressures (m bar)				
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

## CHECK 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

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PRODUCT FEATURES		CV-20	CV-25
	Body Material	Cast Iron GG25	Cast Iron GG25
	Disc Material	Stainless Steel AISI 316	Ductile Iron GGG 40.3
	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

## CHECK VALVES

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

#### APPLICATION AREAS

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

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PRODUCT FEATURES CV-30/35		CV-30	CV-35
	Body Material	Stainless Steel AISI 316	Ni Coated Carbon Steel
	Disc Material	Stainless Steel AISI 316	Ni Coated Carbon Steel
	Disc Bearing	Ni Coated Carbon Steel	Ni Coated Carbon Steel
	Eye Bolt	Stainless Steel AISI 316	Ni Coated Carbon Steel
	O-ring	EPDM	EPDM
	Connection Type	Flanged	Flanged
	Nominal Pressure (PN)	16 bar	16 bar
	Min.Allowable Temp	-10°C	-10°C
	Max. Operating Temperature	110°C	110°C



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

## CHECK 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	9,6 bar
Max. Operating Temperature	100°C	300°C



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DIMENSIONS

FLANGED (DN)

DN15  
all sizes available  
in between  
DN300

## CHECK VALVES

### 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



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DIMENSIONS

Threaded (inch)

1/2"  
all sizes available  
in between  
2"

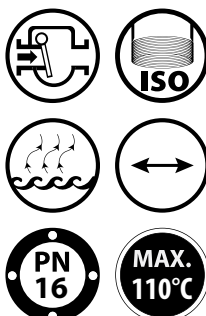
## CHECK VALVES

### 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
Spring	Stainless Steel
Washer	ABS/NBR
Connection Type	Threaded
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	110°C



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

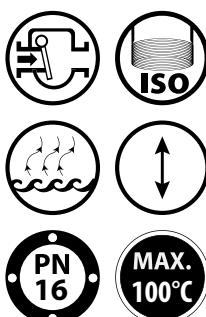
## CHECK VALVE

### 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	100°C



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

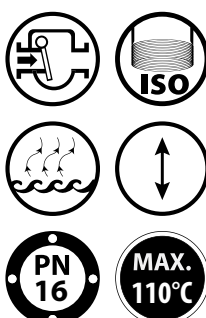
## CHECK VALVES

### FOOT VALVE

#### APPLICATION AREAS

Can be used for installation on pumps, wells and autoclaves.  
Suitable for vertical applications only.  
Allows only upward flow in the pipelines.  
Prevents possible back flow in the applications.

PRODUCT FEATURES	
Body Material	Brass-CW617N UNI EN 12165
Seat	Brass-CW617N UNI EN 12165
Disc Holder	Hostaform Pom-DIN5735
Spring	Stainless Steel-UNI 10270-1
Disc	Nylon+NBR
Filter	Filter Stainless Steel
Connection Type	Threaded
Nominal Pressure (PN)	16 bar
Max. Oper. Temp.	110°C



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



## BALL VALVES

### V-2T STAINLESS STEEL BALL VALVE

#### APPLICATION AREAS

Food industry  
Chemical plants  
Heating, air-conditioning systems  
Shipbuilding  
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	-25/+180°C	-25/+180°C

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

## BALL VALVES

### V-3T STAINLESS STEEL BALL VALVE

#### APPLICATION AREAS

Food industry  
Chemical plants  
Heating, air-conditioning systems  
Shipbuilding  
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	-25/+180°C	-25/+180°C

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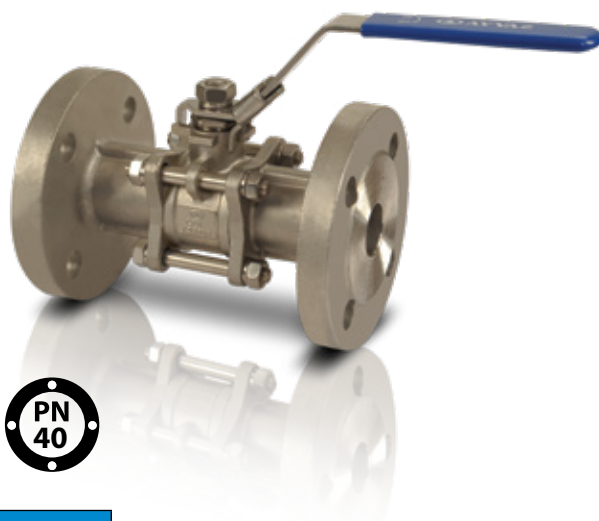
DIMENSIONS	Threaded (inch)
	1/4" all sizes available in between 4"

## BALL VALVES

### V-3F STAINLESS STEEL BALL VALVE

#### APPLICATION AREAS

Food industry  
Chemical plants  
Heating, air-conditioning systems  
Shipbuilding  
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	-25/+180°C	-25/+180°C

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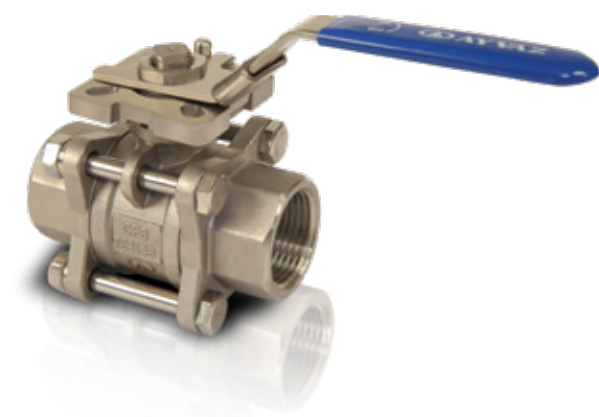
DIMENSIONS	Flanged (DN)
	DN15 all sizes available in between DN100

## BALL VALVES

### V-3TP BALL VALVE WITH MOUNTING PAD

#### APPLICATION AREAS

Food industry  
Chemical plants  
Heating, air-conditioning systems  
Shipbuilding  
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	-25/+180°C	-25/+180°C

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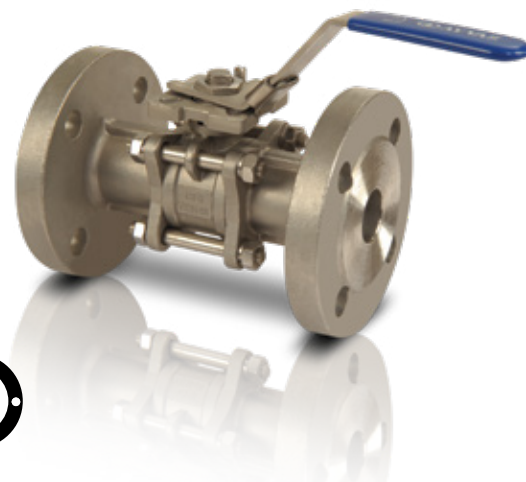
DIMENSIONS	Threaded (inch)
	1/2" all sizes available in between 4"

## BALL VALVES

### V-3FP BALL VALVE WITH MOUNTING PAD

#### APPLICATION AREAS

Food industry  
Chemical plants  
Heating, air-conditioning systems  
Shipbuilding  
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	-25/+180°C	-25/+180°C

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

## BALL VALVES

### DK-107 BRASS VALVE FOR NATURAL GAS

#### APPLICATION AREAS

Natural gas applications  
LNG and LPG lines  
Fuel-oil lines  
Water distribution  
Air pipelines



PRODUCT FEATURES	
Body Material	Brass Ms58
Ball Material	Ni Coated Brass
Gasket	PTFE
Hand Lever	St 37
Connection Type	Threaded
Nominal Pressure(PN)	16 bar
Max. Operating Temperature	110°C

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

## BALL VALVES

### SK-120 BRASS VALVE FOR WATER

#### APPLICATION AREAS

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



PRODUCT FEATURES	
Body Material	Brass Ms58
Ball Material	Ni Coated Brass
Gasket	EPDM
Hand Lever	St 37
Connection Type	Threaded
Nominal Pressure(PN)	16 bar
Max. Operating Temperature	120°C



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

## BALL VALVES

### MBK-50 MONOBLOCK VALVE FOR NATURAL GAS

#### APPLICATION AREAS

Natural gas supply and distribution lines  
LPG-LNG lines  
Fuel-oil pipelines  
Heating, air-conditioning systems  
Food industry chemical industry



PRODUCT FEATURES	
Body Material	Carbon Steel
Ball Material	Stainless Steel AISI 304
Ball Seat	PTFE
Gasket	NBR
Connection Type	Flanged
Nominal Pressure (PN)	40 bar
Max. Operating Temperature	-40/+60°C



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

## BALL VALVES

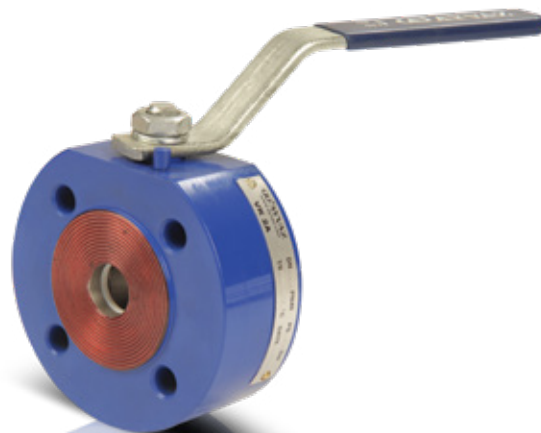
### MBK-40 MONOBLOCK VALVE WATER

#### APPLICATION AREAS

Water supply and distribution lines  
Hot an cold water applications  
Food industry chemical industry  
Shipbuilding  
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



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



## BALL VALVES

### MBK-45 MONOBLOCK VALVE FOR LIQUIDS

#### APPLICATION AREAS

Water supply and distribution lines  
Heating, air-conditioning systems  
Food industry chemical industry  
Shipbuilding  
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



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

## BALL VALVES

### TGV-10 FULL BORE BALL VALVE

#### APPLICATION AREAS

Hot and cold water supply and distribution lines  
Non-acidic and non alkaline liquid pipelines  
Non-flammable liquid pipelines  
Shipbuilding  
Paper mills



PRODUCT FEATURES	
Body and Cover Material	Cast Iron GG-25
Ball Material	Stainless Steel AISI 304
Ball Seat	R-PTFE (15%)
Gasket	PTFE
Connection Type	Flanged
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	120°C



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DIMENSIONS	FLANGED (DN)
	DN15 all sizes available in between DN200

## BALL VALVES

### TGV-20 FULL BORE BALL VALVE

#### APPLICATION AREAS

Hot and cold water supply and distribution lines  
Non-acidic and non alkaline liquid pipelines  
Non-flammable liquid pipelines  
Shipbuilding  
Paper mills



PRODUCT FEATURES	
Body and Cover Material	Cast Iron GG-25
Ball Material	Stainless Steel AISI 304
Ball Seat	R-PTFE (15%)
Gasket	PTFE
Connection Type	Flanged
Nominal Pressure (PN)	6/10/16 bar
Max. Operating Temperature	120°C

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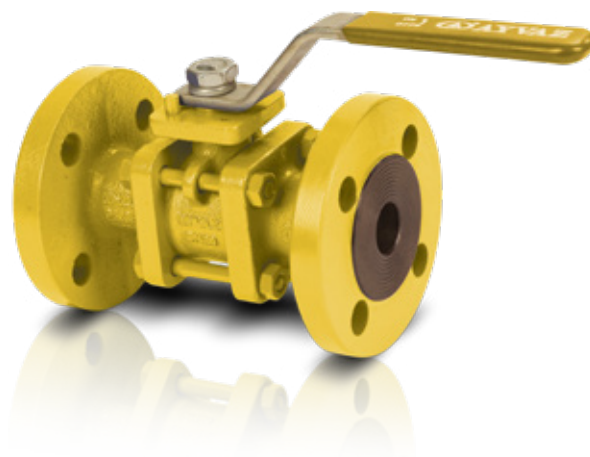
DIMENSIONS	FLANGED (DN)	
	DN40 all sizes available in between DN200	DN125 and above diameters come with gear box

## BALL VALVES

### TGV-30 3-PARTIAL BALL VALVE FOR COMBUSTION GAS

#### APPLICATION AREAS

Natural gas supply and distribution lines  
LPG-LNG lines  
Fuel-oil pipelines  
Heating, air-conditioning systems  
Food industry chemical industry



PRODUCT FEATURES	
Body and Cover Material	Ductile Iron GGG 40.3
Ball Material	Stainless Steel AISI 304
Ball Seat	R-PTFE (15%)
Gasket	PTFE
Connection Type	Flanged
Nominal Pressure (PN)	40 bar
Max. Operating Temperature	200°C

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DIMENSIONS	FLANGED (DN)	
	DN40 all sizes available in between DN125	

## BUTTERFLY 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

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

\* Please contact our sales team for bigger sizes.

## BUTTERFLY VALVES

### KV-4 LUG TYPE BUTTERFLY VALVE

#### APPLICATION AREAS

Heating, air-conditioning systems  
Water purification system  
Mining industry  
Shipbuilding  
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

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

\* Please contact our sales team for bigger sizes.

## BUTTERFLY VALVES

### KV-7 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



PRODUCT FEATURES	
Body Material	Cast Iron GG-25
Liner Material	EPDM
Disc Material	Ni Coated Ductile Iron GGG 40.3
Shaft Material	Stainless Steel AISI 416
Connection Type	Flanged (Wafer Type)
Nominal Pressure (PN)	10/16 bar
Max. Operating Temperature	110°C

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

\* Please contact our sales team for bigger sizes.

## BUTTERFLY VALVES

### KV-8 LUG TYPE BUTTERFLY VALVE

#### APPLICATION AREAS

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



PRODUCT FEATURES	
Body Material	Cast Iron GG-25
Liner Material	EPDM
Disc Material	Ni Coated Ductile Iron GGG 40.3
Shaft Material	Stainless Steel AISI 416
Connection Type	Flanged (Lug Type)
Nominal Pressure (PN)	10/16 bar
Max. Operating Temperature	110°C

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

\* Please contact our sales team for bigger sizes.

## BUTTERFLY VALVES

### KV-9 WAFER TYPE BUTTERFLY VALVE FOR NATURAL GAS

#### APPLICATION AREAS

Natural gas supply and distribution lines  
LPG-LNG lines  
Fuel-oil pipelines  
Heating, air-conditioning systems  
Chemical and petrochemical plants



PRODUCT FEATURES	
Body Material	Ductile Iron GGG 40.3
Liner Material	NBR
Disc Material	Ni Coated Ductile Iron GGG 40.3
Shaft Material	Stainless Steel AISI 416
Connection Type	Flanged (Wafer Type)
Nominal Pressure (PN)	10/16 bar
Max. Operating Temperature	80°C

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

\* Please contact our sales team for bigger sizes.

## BUTTERFLY VALVES

### KV-10 LUG TYPE BUTTERFLY VALVE FOR NATURAL GAS

#### APPLICATION AREAS

Natural gas supply and distribution lines  
LPG-LNG lines  
Fuel-oil pipelines  
Heating, air-conditioning systems  
Chemical and petrochemical plants



PRODUCT FEATURES	
Body Material	Ductile Iron GGG 40.3
Liner Material	NBR
Disc Material	Ni Coated Ductile Iron GGG 40.3
Shaft Material	Stainless Steel AISI 416
Connection Type	Flanged (Lug Type)
Nominal Pressure (PN)	10/16 bar
Max. Operating Temperature	80°C

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

\* Please contact our sales team for bigger sizes.



## BUTTERFLY VALVES ACCESSORIES WORM GEAR

### USING CONDITIONS

DN150-300 as dimensional reductor  
Must be used above DN350

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PRODUCT FEATURES	
Body Material	Epoxy coated Ductile Iron GGG 40.3
Diameters	DN40-600
Connection Type	Threaded ISO 5211
Max. Operating Temperature	-20/+70°C



## BUTTERFLY VALVES ACCESSORIES DOUBLE ACTING PNEUMATIC ACTUATOR

### USING CONDITIONS

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

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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



## BUTTERFLY VALVES ACCESSORIES ELECTRIC ACTUATORS

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	PRODUCT FEATURES		
	UMA 3.5	UMC 10	ALUMINIUM TYPE
Body	Plastic AA 66	Plastic AA 66	Aluminium
Cover	Plastic AA 66	Plastic AA 66	Steel
Axis	Chrome Steel	Chrome Steel	Bronze Alloy
Connection	Threaded	Threaded	Threaded
Nominal Diameters	DN40-600	DN40-600	DN40-600
Max. Operating Temp.	-20/+70°C	-20/+70°C	-20/+70°C



## STRAINERS PTY-20

### APPLICATION AREAS

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



PRODUCT FEATURES		
Body Material	Cast Iron GG-25	
Gasket	PTFE	
Strainer	Stainless Steel AISI 304	
Filter	Stainless Steel AISI 304	
Connection Type	Flanged	
Nominal Pressure (PN)	16 bar	10 bar
Max. Operating Temperature	120°C	300°C



**DIMENSIONS**  
all sizes available  
in between  
DN400

## STRAINERS YS-600 FOR LIQUIDS

### APPLICATION AREAS

Heating-cooling lines  
Food industry  
Chemical industry  
Shipbuilding  
Paper mills



PRODUCT FEATURES	
Body Material	Brass Ms58
Cover	Brass Ms58
Gasket	Klingerit
Filter	Stainless Steel AISI 304
Connection Type	Threaded
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	110°C



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

## STRAINERS

### YS-700 FOR NATURAL GAS

#### APPLICATION AREAS

Natural gas supply and distribution lines  
LPG-LNG lines  
Fuel-oil pipelines  
Heating, air-conditioning systems  
Chemical and petrochemical plants



PRODUCT FEATURES	
Body Material	Forged Brass
Cover	Brass Ms58
Washer	Steeling Paper
Filter	Stainless Steel AISI 304
Connection Type	Threaded
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	60°C



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

## STRAINERS

### YS-800 FOR LIQUIDS

#### APPLICATION AREAS

Steam, water, hot water  
Compressed air  
LPG  
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	-25/+180°C	-25/+180°C



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

## BALANCE VALVES

### DBV-30 DYNAMIC BALANCE VALVE

#### APPLICATION AREAS

Heating-cooling lines  
Industrial plumbing  
Plumbing  
Air conditioning plumbing  
Hot and cold water pipelines



PRODUCT FEATURES	
Body Material	Brass Ms58
Disc	Stainless Steel
Diaphragm	EPDM
Connection Type	Threaded
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	120°C

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

## VALVE JACKETS

### AEROGEL ISOLATION

#### APPLICATION AREAS

Hot water and steam lines  
Oil and gas processing industry  
Refineries and gas processing plants  
LNG, LPG, ethylene  
Petro-chemical plants

#### VALVE TYPES

Gate Valves  
Butterfly Valves  
Ball Valves  
Globe Valves  
Strainers



PRODUCT FEATURES	
Fabric Material	Glass Fiber / Silicone Fiber
Sewing Thread	Glass Fiber
Flange Ropes	Glass Fiber
Insulation Material	Pyrogel XT/XTF (0.021 W/mK) Cryogel X201 (0.015 W/mK)
Insulation Thickness	5mm-10mm (Optional)
Max. Operating Temp.	650 °C (Pyrogel XT/XTF)
Min. Operating Temp.	-200 °C (Cryogel X201)



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## BALANCE VALVES STATIC BALANCE VALVE

### APPLICATION AREAS

Heating-cooling lines  
Industrial plumbing  
Mechanical building installations  
Air conditioning plumbing  
Hot and cold water pipelines



PRODUCT FEATURES	
Body	Bronze
Cover	Brass
Disc	Brass
Disc Gasket	PTFE
Shaft	Brass
Gasket	EPDM
Connection Type	Threaded
Nominal Pressure (PN)	25 bar
Max. Operating Temperature	+120°C



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

## BALANCE VALVES STATIC BALANCE VALVE

### APPLICATION AREAS

Heating-cooling lines  
Industrial plumbing  
Mechanical building installations  
Air conditioning plumbing  
Hot and cold water pipelines



PRODUCT FEATURES	
Body and Cover	GG-25 Ductile Iron
Disc Cover	GG-25 Ductile Iron
Shaft	Brass
Gasket	EPDM
Connection Type	Flanged
Nominal Pressure (PN)	25 bar
Max. Operating Temperature	+120°C



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DIMENSIONS	FLANGED (DN)
	DN65 all sizes available in between DN300



## MANOMETER VALVES

### APPLICATION AREAS

Chemical and petrochemical industries  
Energy plants  
Recycling plants  
Steel production industry  
Fuel and oil plants



DIMENSIONS	Threaded (inch)
	1/2"

### MV-330 MANOMETER VALVE

PRODUCT FEATURES	
Body and Cover	Brass
Shaft	Stainless Steel 1.4104
Valve	Stainless Steel 1.4104
Seat	Stainless Steel 1.4104
Connection Type	Threaded
Nominal Pressure (PN)	25 bar
Max. Operating Temperature	200°C

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### MV-416 MANOMETER VALVE

PRODUCT FEATURES	
Body and Cover	Brass
Shaft	Stainless Steel 1.4104
Valve	Stainless Steel 1.4104
Seat	Stainless Steel 1.4104
Connection Type	Threaded
Nominal Pressure (PN)	25 bar
Max. Operating Temperature	200°C

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### MV-417 MANOMETER VALVE

PRODUCT FEATURES	
Body and Cover	Brass
Shaft	Stainless Steel 1.4104
Valve and seat	Stainless Steel 1.4104
Sealing	PTFE
Connection Type	Threaded
Nominal Pressure (PN)	25 bar
Max. Operating Temperature	200°C

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## BRASS VALVES

### 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



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

## BRASS VALVES

### PRESSURE REDUCING VALVE

#### APPLICATION AREAS

Energy generation  
Refineries  
Petrochemical industry  
Chemical industry  
Food industry



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



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

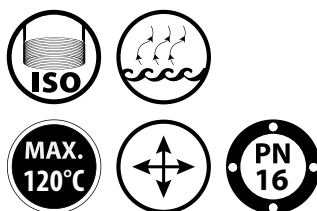
\* Available with or without manometer.

## BRASS VALVES GATE VALVE

### APPLICATION AREAS

Shipbuilding  
Heating-cooling lines  
Air conditioning plumbing  
Food industry  
Water purification system

PRODUCT FEATURES	
Body	Ni Coated Brass
Seat	EPDM
Connection Type	Threaded
Max. Operating Pressure	16 bar
Max. Operating Temperature	120°C



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



## STAINLESS STEEL SAFETY VALVES L9-LS

### PRODUCT FEATURES

Body	Stainless Steel CF8
Seat	Stainless Steel 304 or CF8
Disc	Stainless Steel 304 or CF8
Spring	Stainless Steel 304
Sleeve	Stainless Steel 304
Operating Pressure	0,3-2 kgf/cm <sup>2</sup> - 2,1-10 kgf/cm <sup>2</sup>
	11-20 kgf/cm <sup>2</sup>
Operating Temperature	- 196 °C / 290 °C



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

\* Available with or without manometer.

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



## BRONZE VALVES

### BRONZE GATE VALVE (NON-RISING STEM)

#### APPLICATION AREAS

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



PRODUCT FEATURES	
Body	Bronze CC491K
Bonnet	Bronze CC491K
Stem	DZR Brass CW602N
Packing Nut	Brass CW617N
Packing	P.T.F.E
Stem Bush	DZR Brass CW602N
Disc	Bronze CC491K
Connection Type	Threaded
Nominal Pressure (PN)	20 bar
Max. Operating Temperature	170°C



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

## BRONZE VALVES

### BRONZE GATE VALVE (RISING STEM)

#### APPLICATION AREAS

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



PRODUCT FEATURES	
Body	Bronze CC491K
Bonnet	Bronze CC491K
Stem	DZR Brass CW602N
Packing Nut	Brass CW614N
Packing	P.T.F.E
Clamping Ring	Brass CW614N
Disc	Bronze CC491K
Connection Type	Threaded
Nominal Pressure (PN)	20 bar
Max. Operating Temperature	170°C



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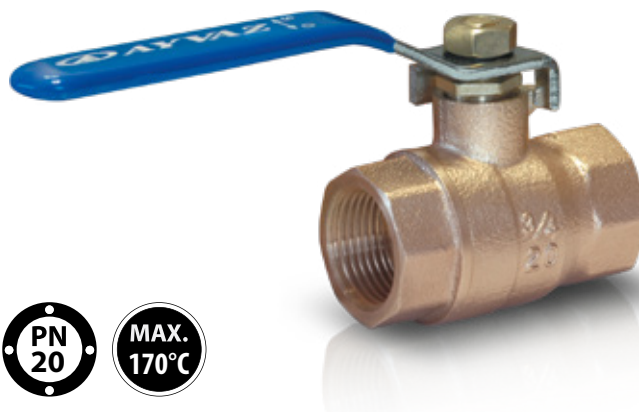


DIMENSIONS	Threaded (inch)
	1/2" all sizes available in between 4"

## BRONZE VALVES BRONZE BALL VALVE

### APPLICATION AREAS

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



PRODUCT FEATURES	
Body	Bronze CC491K
Seat Retainer	Bronze CC491K
Ball	Brass CW617N
Seat	P.T.F.E
Stem	DZR Brass CW602N
Packing	P.T.F.E
Gland Nut	Brass CW617N
Connection Type	Threaded
Nominal Pressure (PN)	20 bar
Max. Operating Temperature	170°C

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

## BRONZE VALVES BRONZE CHECK VALVE

### APPLICATION AREAS

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



PRODUCT FEATURES	
Body	Bronze CC491K
Cap	Bronze CC491K
Disc	Bronze CC491K
Hinge	Brass CW617N
Hinge Pin	Stainless Steel 2Cr13
Hinge Nut	Brass CW617N
Connection Type	Threaded
Nominal Pressure (PN)	20 bar
Max. Operating Temperature	170°C

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



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