



توسعه مهندسی نیکو

تامین کننده قطعات صنعتی

www.nikoobazar.com



آدرس : تبریز - فلکه دانشگاه - برج بلور - طبقه 14 - واحد E

تلفن: ۰۴۱ - ۳۳۳۴۶۳۷۹ Email: info@nikoobazar.com



واحد تامین تجهیزات و قطعات صنعتی - نمایندگی آیواز



تأمین کننده وزارت نفت - عضوفهرست بلند وندور لیست AVL



واحد تامین تجهیزات و قطعات صنعتی شرکت توسعه مهندسی نیکو، زیر نظر شرکت بازرگانی نیکوبازار خاورمیانه، با هدف تأمین تجهیزات و قطعات صنعتی مورد نیاز در صنایع نفت، گاز، پتروشیمی، آب و فاضلاب و صنایع غذایی فعالیت مینماید. این شرکت با رویکرد متفاوت خود در تأمین تجهیزات، پروژه های خرید و تأمین کالا، پروژه های متعددی را با موفقیت در صنایع مختلف به انجام رسانیده و در کنار کیفیت بالا و زمان تحویل مناسب اقلام ارائه شده، با کاهش هزینه تأمین اقلام، رضایت و مشتری مداری را به مشتریان و همکاران به ارمغان آورده است و همواره سعی در جلب اعتماد مشتری و همکاران این حوزه داشته است. از جمله مشتریان این شرکت میتوان به شرکتهای پالایش، پتروشیمی، گاز، صنایع غذایی، شرکتهای تولید مواد پایه مواد غذایی مانند خمیرمایه و اشاره کرد.

آدرس دفتر ترکیه		آدرس دفتر ایران	
Brandium Residens R1 Blok D:220 Atasehir / ISTANBUL		ایران ، تبریز ، فلکه دانشگاه ، برج تجاری بلور ، طبقه ۱۴ ، واحد E	
ایمیل	وبسایت	تلگرام و واتساپ	تلفاکس
industry@nikoobazar.com	www.nikoobazar.com	09149999818	04133346379



دسته بندی محصولات شرکت آیواز:

گواهینامه ها	دسته بندی محصولات	نام شرکت
<ul style="list-style-type: none"> •ISO 9001:2000 from Germany •CE certificate •IMQ - Italy certificate •DVGW - Germany certificate •GOST - Russia certificate •GOST - Ukraine certificate •GL - U.K certificate •Gastec - Holland certificate •KVGW - Belgium certificate •LLOYDS certificate •BUREAU VERITAS certificate •VDS certificate 	<p>Steam traps</p> <p>تله بخار و سایر تجهیزات خطوط بخار</p>	<p>شرکت آیواز ترکیه</p> <p>AYVAZ TURKEY</p>
	<p>Expansion joints</p>	
	<p>Level Controller</p> <p>لول کنترل، لول گیج و ...</p>	
	<p>Valves</p> <p>انواع شیرالات صنعتی و بخار</p>	
	<p>Insulation Jackets</p> <p>عایق ژاکتی شیرالات و اتصالات</p>	
	<p>Flexible metal hose</p> <p>شلنگ های منعطف</p>	
	<p>Fire Fighting Equipment</p> <p>تجهیزات کامل آتش نشانی (اسپرینکلر، شیرالات، شلنگها، اتصالات و...)</p>	



GENERAL



معرفی شرکت آیواز:

شرکت AYVAZ ترکیه یکی از ۵۰۰ شرکت برتر ترکیه و یکی از بزرگترین تولیدکنندگان در زمینه تاسیسات نفت و گاز می باشد. این شرکت به ۹۵ کشور دنیا صادرات داشته و یکی از تامین کنندگان وزارت دفاع ترکیه ، شرکت گاز ترکیه ، BP و SHELL می باشد. کیفیت محصولات AYVAZ با توجه به تست های انجام شده و استفاده از تکنولوژی مستقیم کشور آلمان جزو بهترین محصولات موجود در بازار بوده که دارای قیمت مناسب تر نسبت به محصولات مشابه اروپایی می باشد. تمامی محصولات این شرکت با تکنولوژی روز دنیا تولید شده و دارای گواهینامه های بین المللی می باشد.

FLEXIBLE METAL HOSES



برخی از گواهینامه های این شرکت عبارتند از:

EXPANSION JOINTS



• ISO 9001:2000 from Germany

• CE certificate

• IMQ - Italy certificate

• DVGW - Germany certificate

LEVEL CONTROL/STEAM TRAPS



• GOST - Russia certificate

• GOST - Ukraine certificate

• GL - U.K certificate

VALVES



• Gastec - Holland certificate

• KVGW - Belgium certificate

EX-PROOF PRODUCTS



• LLOYDS certificate

• BUREAU VERITAS certificate

• VDS certificate

• FM certificate

BAZAR KHAVARMIYANEH

NIKOO



AYVAZ

EXPANSION JOINT



info@ayvaz.com | www.ayvaz.com

AYVAZ

VALVES



info@ayvaz.com | www.ayvaz.com

AYVAZ

LEVEL CONTROL



info@ayvaz.com | www.ayvaz.com

AYVAZ
SOLAR SYSTEM
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www.ayvaz.com



AYVAZ

STEAM TRAPS



08.2014

info@ayvaz.com | www.ayvaz.com

AYVAZ

Valve and Steam Trap Jackets



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ON ALL
INSULATION JACKETS

Order your Insulation jackets while ordering valves and steam traps with the right quantity, and get your special discount!

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AYVAZ

FLEXIBLE METAL HOSE



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EXPANSION JOINTS



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FIRE FIGHTING PRODUCTS



03.2015

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AYVAZ

**STEAM
TRAPS**

www.nikoobazar.com





شرکت پالایش نفت تبریز (معلمه نام)

بستران

تاریخ: ۱۳۷۷/۱۰/۰۷
شماره پ.ت: ۴۴/۱۰۰۰۰۰۰۰
پوست



مدیر محترم شرکت نیکو بازار خاورمیانه

مدیر محترم شرکت توسعه مهندسی نیکو بازار خاورمیانه

موضوع: **تاییدیه رضایتدنی**
شرح: **RZS-9648531**

با سلام:

احتراما عطف به نامه شماره ۷۷۷/۱۰/۱۰۰۰۰ مورخه ۹۷/۱۰/۱۴ آن شرکت محترم ،
گواهی میشود STEAM TRAPS خریداری شده طی تقاضای فوق از آن شرکت محترم
با مارک **AYVAZ** از نظر کارکرد مورد تایید میباشد .
به امید همکاری در موارد آتی .

و من . ا. التوفیق

لیض حسینی
رئیس اداره نگات کالا

کارشناس خرید
نجف زاده
۰۲۱-۳۴۲۱۰۴۱۱

آدرس: تبریز- جاده آذرشهر- ره راهی سرورد- صندوق پستی ۴۱۱۳۵-۴۱۱۳۵
تلفن: ۰۲۱-۳۴۲۱۰۴۱۱ تا ۰۲۱-۳۴۲۱۱۳۳۳ تا ۰۲۱-۳۴۲۱۱۳۳۳
E-MAIL: PROCUREMENT@TBZREFINERY.CO.IR



شرکت پالایش نفت تبریز (معلمه نام)

بستران

تاریخ: ۱۳۷۷/۱۰/۰۷
شماره پ.ت: ۴۴/۱۰۰۰۰۰۰۰
پوست



مدیر محترم شرکت نیکو بازار خاورمیانه

مدیر محترم شرکت توسعه مهندسی نیکو بازار خاورمیانه

موضوع: **تاییدیه رضایتدنی**
شرح: **RZS-9547378**

با سلام:

احتراما عطف به نامه شماره ۷۷۷/۱۰/۱۰۰۰۰ مورخه ۹۷/۱۰/۱۴ آن شرکت محترم ،
گواهی میشود STEAM TRAPS خریداری شده طی تقاضای فوق از آن شرکت محترم
با مارک **AYVAZ** از نظر کارکرد مورد تایید میباشد .
به امید همکاری در موارد آتی .

و من . ا. التوفیق

لیض حسینی
رئیس اداره نگات کالا

کارشناس خرید
نجف زاده
۰۲۱-۳۴۲۱۰۴۱۱

آدرس: تبریز- جاده آذرشهر- ره راهی سرورد- صندوق پستی ۴۱۱۳۵-۴۱۱۳۵
تلفن: ۰۲۱-۳۴۲۱۰۴۱۱ تا ۰۲۱-۳۴۲۱۱۳۳۳ تا ۰۲۱-۳۴۲۱۱۳۳۳
E-MAIL: PROCUREMENT@TBZREFINERY.CO.IR



شرکت پالایش نفت تبریز (معلمه نام)

بستران

تاریخ: ۹۷/۱۰/۱۴
شماره پ.ت: ۴۴/۱۰۰۰۰۰۰۰
پوست

مدیر محترم شرکت نیکو بازار خاورمیانه

موضوع: **RZS-9547378**
شرح: **STEAM TRAP**

با سلام:

احتراما عطف به نامه شماره ۷۷۷/۱۰/۱۰۰۰۰ مورخه ۹۷/۱۰/۱۴ آن شرکت محترم ،
ارسالی آن شرکت محترم با مارک **AYVAZ** به سایزهای 1/2 + 3/4 بعد از تست های
لازم مورد تایید قرار گرفته اند لذا مراتب جهت اقدامات مقتضی به استحضار میرساند

و من . ا. التوفیق

لیض حسینی
رئیس اداره نگات کالا

نجف زاده
۰۲۱-۳۴۲۱۰۴۱۱

آدرس: تبریز- جاده آذرشهر- ره راهی سرورد- شرکت پالایش نفت تبریز- کد پستی ۴۱۱۳۳۳
تلفن: ۰۲۱-۳۴۲۱۰۴۱۱ تا ۰۲۱-۳۴۲۱۱۳۳۳ تا ۰۲۱-۳۴۲۱۱۳۳۳
E-MAIL: PROCUREMENT@TBZREFINERY.CO.IR



شرکت پالایش نفت تبریز

بستران

تاریخ: ۹۷/۱۰/۱۴

بسمه تعالی

تاریخ: ۹۷/۱۰/۱۴
پوست: ۴۴/۱۰۰۰۰۰۰۰
شماره پ.ت: ۴۴/۱۰۰۰۰۰۰۰

مدیریت محترم فروش شرکت توسعه مهندسی نیکو

موضوع: خرید تجهیزات تله بخار

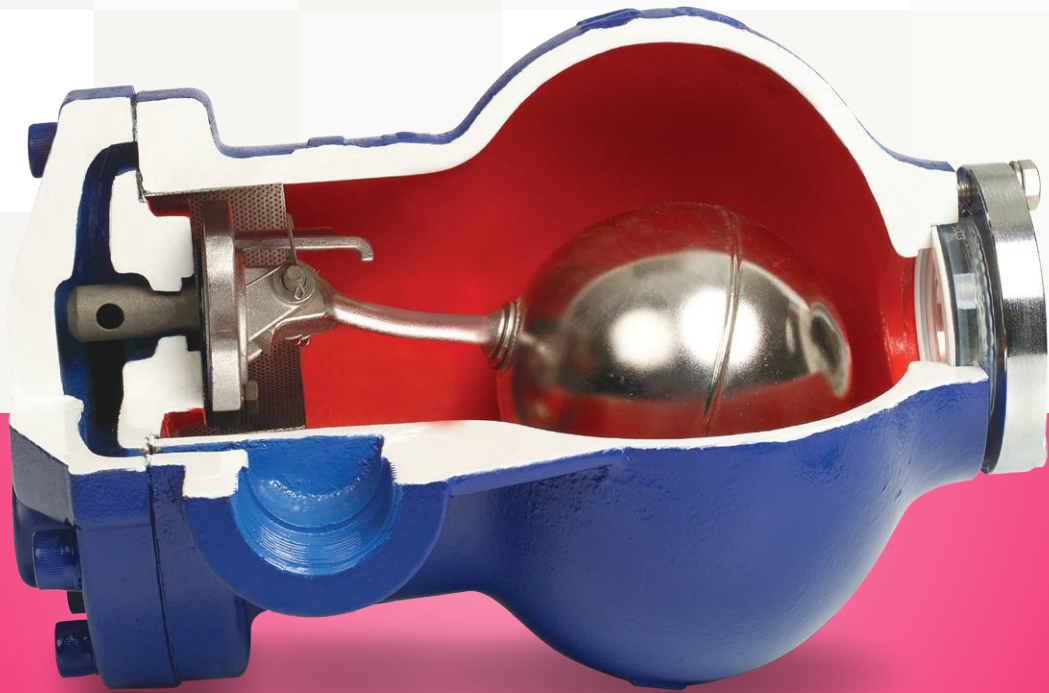
با سلام:

احتراما به استحضار میرساند پیش فاکتور مالی در خصوص تامین اقلام موضوعه به شماره ۴-۱۳۲۳۳۳-۱۳۲ مورخ ۹۷/۱۰/۱۴
به مبلغ کل [REDACTED] مورد تایید می باشد خواهشمند دستور فرمایید
اقدامات لازم در این خصوص صورت پذیرد.
پیشاپیش از همکاری های حمیمانه آن مجموعه محترم سپاسگزاریم.

شرکت پالایش نفت تبریز
اداره نگات کالا



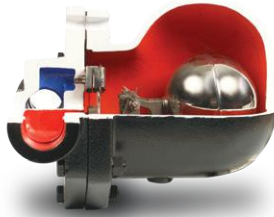
STEAM TRAPS



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STEAM TRAPS

FLOAT TYPE STEAM TRAPS WITH AIR VENT ► SK-50



Body and Cover
Internals and float
Connection Types

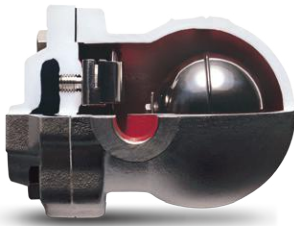
Ductile Iron GGG 40.3
Stainless Steel AISI 304
Flanged and threaded

OPERATING CONDITIONS

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

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



Body
Cover
Internals and float
Connection Types

Ductile Iron GGG 40.3
Cast Steel GSC 25
Stainless Steel AISI 304
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

DIMENSIONS	
Flanged (DN)	Threaded (inch)
15	1/2"
20	3/4"
25	1"

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



Body and Cover
Internals and float
Connection Types

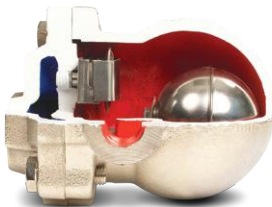
Ductile Iron GGG 40.3
Stainless Steel AISI 304
Flanged and threaded

OPERATING CONDITIONS

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

DIMENSIONS	
Flanged (DN)	Threaded (inch)
32	1 1/4"
40	1 1/2"
50	2"

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



Body and Cover
Internals and float
Connection Types

Stainless Steel AISI 316
Stainless Steel AISI 304
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

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



Body and Cover
Internals and float
Connection Types

Stainless Steel AISI 316
Stainless Steel AISI 304
Flanged and threaded

OPERATING CONDITIONS

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

DIMENSIONS	
Flanged (DN)	Threaded (inch)
15	1/2"
20	3/4"
25	1"

FLOAT TYPE STEAM TRAPS WITH AIR VENT ► SK-70



Body
Cover
Internals and float
Connection Types

Cast Steel GSC 25
Cast Steel GSC 25
Stainless Steel AISI 304
Flanged and threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO) 32 bar
Max. Permissible Pressure 40 bar
Max. Operating Temperature (TMO) 250°C
Max. Differential Pressure (ΔP) 4,5-10-14

DIMENSIONS	
Flanged (DN)	Threaded (inch)
15	1/2"
20	3/4"
25	1"

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



Body and Cover
Internals and float
Connection Types

Cast Steel GSC 25
Stainless Steel AISI 304
Flanged and threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)
Differential Pressure (ΔP)

32 bar
250°C
4,5-10-14

DIMENSIONS	
Flanged (DN)	Threaded (Inch)
15	1/2"
20	3/4"
25	1"

INVERTED BUCKET STEAM TRAPS ► BT-16



Body
Cover
Internals and Float
Connection Types

Cast Iron GG 25
Cast Iron GG 25
Stainless Steel AISI 304
Threaded

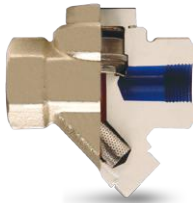
OPERATING CONDITIONS

Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)
Max. Differential Pressure (ΔP)

16 bar
220°C
5,4-8,5-15,5

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

THERMODYNAMIC STEAM TRAPS ► TDK-45



Body
Cover
Strainer, Disc, Seat
Connection Types

Forged Steel
Stainless Steel AISI 304
Stainless Steel AISI 304
Flanged, threaded, socket

OPERATING CONDITIONS

Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

40 bar
400°C

DIMENSIONS	
Flanged (DN)	Threaded And Socket (Inch)
15	1/2"
20	3/4"
25	1"

THERMODYNAMIC STEAM TRAPS ► TDK-PS



Body
Cover
Strainer, Disc, Seat
Connection Types

Stainless Steel AISI 304
Stainless Steel AISI 304
Stainless Steel AISI 304
Threaded, socket

OPERATING CONDITIONS

Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

40 bar
400°C

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

THERMODYNAMIC STEAM TRAPS ► TDK-71



Body
Cover
Strainer, Disc, Seat
Connection Types

Stainless Steel AISI 304
Stainless Steel AISI 304
Stainless Steel AISI 304
Threaded

OPERATING CONDITIONS

Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

40 bar
400°C

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

BI-METALLIC STEAM TRAP ► TK-1



Body
Cover
Strainer, Disc, Seat
Connection Types
Socket

Forged Steel
Stainless Steel AISI 304
Stainless Steel AISI 304
Flanged, Threaded,

OPERATING CONDITIONS

Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

40 bar
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"

STEAM TRAPS

THERMOSTATIC STEAM TRAPS ► TTK-2Y



Body and Cover
Strainer, Seat
Thermostatic Capsule
Check Valve
Connections

Forged Steel
Stainless Steel AISI 304
Hastelloy
Brass MS 58
Flanged, Threaded, Socket

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

32 bar
250°C

DIMENSIONS	
Flanged (DN)	Threaded And Socket (Inch)
15	1/2"
20	3/4"
25	1"

THERMOSTATIC STEAM TRAPS ► TTK-2N



Body and Cover
Strainer, Seat
Thermostatic Capsule
Check Valve
Connections

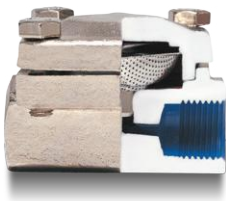
Forged Steel
Stainless Steel AISI 304
Hastelloy
Brass MS 58
Flanged, Threaded Socket

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

32 bar
250°C

DIMENSIONS	
Flanged (DN)	Threaded and Socket (inch)
15	1/2"
20	3/4"
25	1"

THERMOSTATIC STEAM TRAPS ► TTK-21



Body and Cover
Strainer, Seat
Thermostatic Capsule
Connections

Forged Steel
Stainless Steel AISI 304
Hastelloy
Threaded

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

32 bar
250°C

DIMENSIONS	
Threaded (inch)	
3/8"	
1/2"	

THERMOSTATIC STEAM TRAPS ► TTK-41/42



Body
Thermostatic Capsule
Strainer, Seat
Connection Types

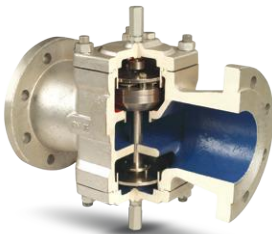
Stainless Steel AISI 304 (TKK-41)
Stainless Steel AISI 316 (TKK-42)
Hastelloy
Stainless Steel AISI 304
Threaded

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

45 bar
250°C

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

THERMOSTATIC STEAM TRAPS ► HK-23 SUPER CONDENSATE RELEASER



Body
Cover
Thermostatic Capsule
Internals
Connections

Ductile Iron GGG 40.3
Ductile Iron GGG 40.3
Hastelloy & Stainless Steel
Stainless Steel AISI 304
Flanged

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

21 bar
250°C

DIMENSIONS	
Flanged (DN)	
50	
65	
80	
100	

THERMOSTATIC STEAM TRAPS ► TTK-3 WITH 3 CAPSULES



Body and Cover
Thermostatic Capsule
Strainer, Seat
Connection Types

Forged Steel
Stainless Steel AISI 304
Stainless Steel AISI 304
Threaded

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

32 bar
250°C

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



Body
Cover
Internals
Connections

Brass
Brass
Stainless Steel AISI 304
Threaded

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

16 bar
250°C

DIMENSIONS	
Threaded (mm)	
1/2"	

VACUUM BREAKERS ▶ VK-71



Body
Cover
Internals and float
Connection Types

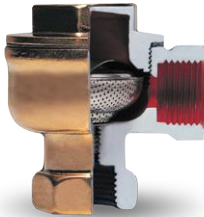
Stainless Steel AISI 304
Stainless Steel AISI 304
Stainless Steel AISI 304
Threaded

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)
Max. Differential Pressure (ΔP)

25 bar
400°C
5,4-8,5-15,5

DIMENSIONS	
Threaded (mm)	
1/2"	

THERMOSTATIC AIR DRAINERS ▶ TTK-11 AIR ELIMINATOR



Body and Cover
Thermostatic Capsule
Internals
Connections

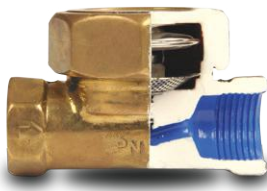
Brass
Hastelloy
Stainless Steel AISI 304
Threaded

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

10 bar
150°C

DIMENSIONS	
THREADED (mm)	
1/2"	

THERMOSTATIC AIR DRAINERS ▶ TTK-61 AIR ELIMINATOR



Body and Cover
Thermostatic Capsule
Internals
Connections

Brass
Hastelloy
Stainless Steel AISI 304
Threaded

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

10 bar
150°C

DIMENSIONS	
THREADED (mm)	
1/2"	

FLOAT TYPE AIR DRAINERS ▶ HA-51 AIR DRAINER



Body
Cover
Internals and float
Connections

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

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

16 bar
250°C

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

FLOAT TYPE AIR DRAINERS ▶ HA-50 AIR DRAINER



Body
Cover
Internals and float
Connections

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

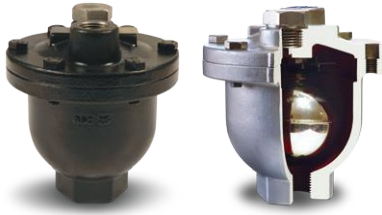
OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

16 bar
250°C

DIMENSIONS	
Flanged (DN)	Threaded (inch)
25	1"

STEAM TRAPS

FLOAT TYPE AIR DRAINERS ► HA-52/62



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)
Max. Operating Temperature (TMO)

16 bar
250°C

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

PRESSURE REDUCING VALVES ► BDV-25



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
Max. Outlet Pressure
Set Pressure

19 bar
8,6 bar
0,14-1,7 bar
1,4-4,0 bar
3,5-8,6 bar

Max. Operating Temperature

210°C

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

FLOAT TYPE LIQUID DRAINERS ► SA-51 LIQUID ELIMINATOR



Body
Cover
Internals and float
Connections
By-pass hole (Optional)

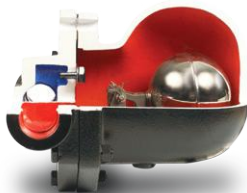
Ductile Iron GGG 40.3
Ductile Iron GGG 40.3
Stainless Steel AISI 304
Flanged and Threaded

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

16 bar
250°C

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

FLOAT TYPE LIQUID DRAINERS ► SA-50 LIQUID ELIMINATOR



Body
Cover
Internals and float
Connections
By-pass hole (Optional)

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

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

16 bar
250°C

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

STEAM SEPARATORS ► SPR-16/25/40



Body
Internals
Connections
Condensate output
Air output

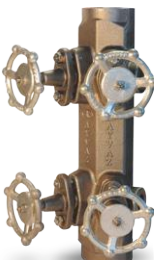
Carbon Steel / Stainless Steel (Optional)
Stainless Steel AISI 304
Flanged
3/4"
1/2"

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)

16/25/40 bar
200°C

PN	DIMENSIONS	
	FLANGED (DN)	THREADED (inch)
16	15-300	1/2"
25		3/4"
40		1"

CONDENSATE CONNECTION MANIFOLDS ► KT-13



Body
Internals
Valve
Connections

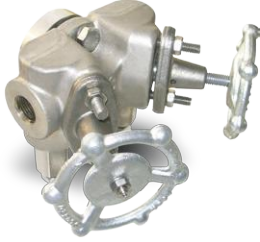
Carbon Steel C 22.8
Stainless Steel
Carbon Steel
Threaded/Socket

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temperature (TMO)
KV Valve

26 bar
250°C
1.8 m³/s

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

PIPELINE CONNECTORS ► BK-33 (TD-SK)



Body
Seat and Disc
Internals
Valve
Connections

Stainless Steel AISI 304
Stainless Steel AISI 420
Stainless Steel
Carbon Steel
Threaded/Socket

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temp. (TMO)

42 bar
315°C

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

PIPELINE CONNECTORS ► BK-33 SK (FLOAT TYPE)



Body and Cover
Internals and Float
Thermostatic Unit
Valve
Connections

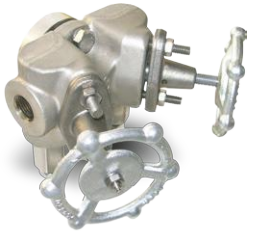
Stainless Steel AISI 304
Stainless Steel AISI 304
Stainless Steel AISI 304
Carbon Steel
Threaded/Socket

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temp. (TMO)
Differential Pressure

32 bar
286°C
4,5/10/14 bar

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

PIPELINE CONNECTORS ► BK-33 TK (THERMOSTATIC)



Body and Cover
Capsule
Internals
Valve
Connections

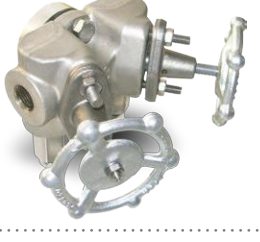
Stainless Steel AISI 304
Stainless Steel
Stainless Steel
Carbon Steel
Threaded/Socket

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temp. (TMO)
Differential Pressure

32 bar
240°C
21 bar

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

PIPELINE CONNECTORS ► BK-33 BM (BI-METALLIC)



Body
Bi-metallic Plates
Internals
Valve
Connections

Stainless Steel AISI 304
Stainless Steel AISI 304
Stainless Steel AISI 304
Carbon Steel
Threaded/Socket

OPERATING CONDITIONS
Max. Operating Pressure (PMO)
Max. Operating Temp. (TMO)
Differential Pressure

32 bar
315°C
32 bar

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

STEAM TRAP TEST VALVE ► KTV-10



Body Material
Ball Material
Body Gasket
Ball Seat
Connection Type
Nominal Pressure (PN)
Max. Operating Temp.

Stainless Steel AISI 304
Stainless Steel AISI 304
PTFE
R-PTFE (15%)
Threaded and Flanged
40 bar
-50/+210°C

Stainless Steel AISI 316
Stainless Steel AISI 316
PTFE
R-PTFE (15%)
Threaded and Flanged
40 bar
-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"

PNEUMATIC CONTROL ON/OFF VALVES ► PKV-50



Body Material
Gasket
Connection Type
Nominal Pressure (PN)
Max. Operating Temp.

Stainless Steel AISI 316
PTFE
Threaded
16 bar
180°C

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



بستر عالی

تاریخ: ۱۳۹۷/۰۴/۱۰
شماره: پ ت ز / ۳۴۰ / ۱۳۲۶۰
پیوست

شرکت پالایش نفت تبریز (سهامی عام)



دسال میت ارگالای ایرانی

مدیریت محترم شرکت توسعه مهندسی نیکو بازار خاورمیانه

موضوع: استعلام RZS-9648531
شرح: STEAM TRAPS

با سلام،

احتراماً عطف به پیشنهاد مالی شماره ۷۷۷/۱۰/۲۸ مورخه ۹۷/۰۴/۰۵ آن شرکت محترم به استحضار میرساند که حائز حداقل قیمت پیشنهادی برای استعلام خرید فوق به مبلغ ریال (بدون ارزش افزوده) مورد تایید می باشید خواهشمند است دستور فرمایید در اسرع وقت نسبت به تحویل کالا اقدام مقتضی را مبذول و نتیجه را به این واحد اعلام فرمایند. ضمناً تایید نهایی منوط بر تست چندعدد از کالا به مدت یک هفته در پالایشگاه خواهد بود

لازم به ذکر است رعایت الزامات بازرسی فنی که قبلاً به آن شرکت محترم ارسال شده و ارائه فاکتور فروش در فرمت صادره از اداره دارائی که به پیوست ارسال می گردد، الزامی است.

و من ا...التوفیق
فیض حسینی
رئیس تدارکات کالا

فهرم

کارشناس خرید:
نجف زاده
۰۴۱-۳۴۲۱۰۴۱۱

آدرس: تبریز- جاده آذرشهر سه راهی سردرود- شرکت پالایش نفت تبریز- تدارکات کالا صندوق پستی ۵۱۳۳۵-۴۱۰۶
تلفن: ۰۴۱-۲۱۱۴۸۵۸۰ فاکس: ۰۴۱-۳۴۲۱۱۹۲۲ و ۰۴۱-۶۱۶۲۲۸۰۶ مرکز مخابرات: ۰۴۱-۳۴۲۰۵۵۷۰-۸۵
E-MAIL: PROCUREMENT@TBZREFINERY.CO.IRS/

تاریخ: ۱۳۹۶/۱۲/۲۸
شماره: پ ت ز / ۳۴۰ / ۳۵۲۴
پیوست



بستر عالی

شرکت پالایش نفت تبریز (سهامی عام)

دسال آسده سده ای تمام و گل

مدیریت محترم شرکت توسعه مهندسی بازار خاورمیانه

موضوع: استعلام RZS-9547378
شرح: STEAM TRAPS

با سلام،

احتراماً عطف به پیشنهاد مالی شماره ۷۷۷/۱۰/۲۷ مورخه ۹۶/۱۱/۱۴ آن شرکت محترم به استحضار میرساند که حائز حداقل قیمت پیشنهادی برای استعلام خرید فوق به مبلغ (با احتساب ۹٪ ارزش افزوده) مورد تایید می باشید خواهشمند است دستور فرمایید در اسرع وقت نسبت به تحویل کالا اقدام مقتضی را مبذول فرمایند.

بدیهی است عدم مراجعه و یا تماس به موقع و حداکثر تا ۵ روز کاری از تاریخ وصول این نامه جهت انعقاد قرارداد و یا تحویل کالا به منزله انصراف قطعی از انجام معامله تلقی خواهد شد. لازم به ذکر است ارائه فاکتور فروش در فرمت صادره از اداره دارائی که به پیوست ارسال می گردد، الزامی است.

و من ا...التوفیق
فیض حسینی
رئیس تدارکات کالا

فهرم

کارشناس خرید:
نجف زاده
۰۴۱-۳۴۲۱۰۴۱۱

آدرس: تبریز- جاده آذرشهر سه راهی سردرود- صندوق پستی ۵۱۳۳۵-۴۱۰۶
تلفن: ۰۴۱-۲۱۱۴۸۵۸۰ فاکس: ۰۴۱-۳۴۲۱۱۹۲۲ و ۰۴۱-۶۱۶۲۲۸۰۶ مرکز مخابرات: ۰۴۱-۳۴۲۰۵۵۷۰-۸۵
E-MAIL: PROCUREMENT@TBZREFINERY.CO.IRS/

۸۸۵۶۹



بستر عالی

تاریخ: ۱۳۹۷/۰۵/۲۴
شماره: پ ت ز / ۳۴۰ / ۱۹۶۱۶
پیوست

شرکت پالایش نفت تبریز (سهامی عام)



دسال میت ارگالای ایرانی

مدیریت محترم شرکت نیکو بازار خاورمیانه

موضوع: RZS-9648531
Steam trap

با سلام،

احتراماً، پیرو نامه شماره ۷۷۷/۱۰/۶۷ مورخ ۹۷/۴/۳۰ آن شرکت محترم تعداد دو عدد Steam trap ارسالی تست و کارکرد آنها مورد تایید می باشد. لطفاً دستور فرمایید نسبت به ارسال کالای فوق اقدام گردد.

و من ا...التوفیق
فیض حسینی
رئیس تدارکات کالا

فهرم

رونوشت: پرونده

آدرس: تبریز- جاده آذرشهر سه راهی سردرود- شرکت پالایش نفت تبریز- اداره تدارکات کالا صندوق پستی ۵۱۷۱۳۳۱۱
تلفن: ۰۴۱-۲۱۱۴۸۵۸۰ فاکس: ۰۴۱-۳۴۲۱۱۹۲۲ و ۰۴۱-۶۱۶۲۲۸۰۶
E-MAIL: PROCUREMENT@TBZREFINERY.CO.IRS/



شرکت نفت پاسارگاد (سهامی عام)

دفتر مرکزی: تهران - سعادت آباد
بلوار دریا - خیابان مطهری ضلعی
انتهای کوچه ساحل ۲ - پلاک ۳۷
کدپستی: ۱۹۹۸۸۷۳۶۶۵
صندوق پستی: ۳۵۹۸ - ۱۹۳۴۵
تلفن: ۰۲۱ - ۳۳۰۳۶۰۰۰
کسب دیرخانه مرکز: ۰۲۱-۸۸۵۶۲۸۰۸
www.pasargadol.com
info@pasargadol.com

مدیریت محترم شرکت توسعه مهندسی نیکو بازار خاورمیانه

موضوع: تایید پیش فاکتور

باسلام

احتراماً به استحضار میرساند استعلام قیمت شماره ۵۱۱۲-۹۷/۳ پ مورد تایید این شرکت میباشد. لذا خواهشمند است نسبت به تهیه و ارسال اقلام اقدامات لازم مبذول فرمائید. ضمناً فرم شناسایی و ارزیابی اولیه تامین کنندگان را تکمیل نموده به همراه مدارک مندرج در فرم مذکور به این شرکت ارسال نمائید. فرم به پیوست حضورتان ارسال میگردد.

با احترام
علی شامد تبریز
مدیر کارخانه تبریز
شرکت نفت پاسارگاد
کارخانه تبریز

آدرس کارخانه: تبریز، پالایشگاه تبریز، کارخانه قیرسازی پاسارگاد
تلفن: ۰۲۱-۳۳۲۱۲۸۹۵-۹۷ فاکس: ۳۳۲۱۲۸۹۸

 **AYVAZ**

VALVES



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5

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



Body	GV-16 GG-25 Cast Iron	GV-25 GSC-25 Cast Steel	GV-40 GSC-25 Cast Steel
Seat	Stainless Steel AISI 304	Stainless Steel AISI 304	Stainless Steel AISI 304
Disc	Stainless Steel	Stainless Steel	Stainless Steel
Connection	Flanged	Flanged	Flanged

-FLANGED: DN15 all sizes are available in between DN400

NON-RISING STEM, SOFT SEATED GATE VALVE ► **GTK-16**



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

-FLANGED: DN40 all sizes are available in between DN1200

DISMANTLING JOINT



Body Material	Cast Iron GG-25 / Ductile 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

WAFER TYPE DISCO CHECK VALVES ► **CV-10**



Body Material	CV-10P Brass Ms58	CV-10S1 Stainless Steel AISI 304	CV-10S2 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
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 Temp.	250°C	300°C	300°C

-DN15 all sizes are available in between DN100

WAFER TYPE DISCO CHECK VALVES ► **CV-11**



Body Material	CV-11 Cast Iron GG25	CV-11S1 Stainless Steel AISI 304	CV-11S2 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 316
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

-DN125 all sizes are available in between DN200

DOUBLE PLATE CHECK VALVES ► **CV-20/25**



Body Material	CV-20 Cast Iron GG25	CV-25 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

-FLANGED: DN50 all sizes are available in between DN300 for PN16
-FLANGED: DN350 all sizes are available in between DN600 for PN10

WAFER TYPE SWING CHECK VALVES ► CV-33/35



Body Material
Disc Material
Disc Bearing
Eye Bolt
O-ring
Connection Type
Nominal Pressure (PN)
Min. Allowable Temp
Max. Operating Temperature

CV-33
Stainless Steel AISI 316
Stainless Steel AISI 316
Ni Coated Carbon Steel
Stainless Steel AISI 316
EPDM
Flanged
16 bar
-10°C
110°C

CV-35
Ni Coated Carbon Steel
Ni Coated Carbon Steel
Ni Coated Carbon Steel
Ni Coated Carbon Steel
EPDM
Flanged
16 bar
-10°C
110°C

-FLANGED: DN32 all sizes are available in between DN300

LIFT TYPE CHECK VALVES ► CLV-50



Body Material
Cover
Disc Material
Spring Material
Gasket
Connection Type
Nominal Pressure (PN)
Max. Operating Temperature

GG-25 Cast Iron
GG-25 Cast Iron
Stainless Steel AISI 304
Stainless Steel AISI 304
CrNi laminated pure graphite
Flanged
16 bar 9,6 bar
100°C 300°C

-FLANGED: DN15 all sizes are available in between DN300

SWING TYPE CHECK VALVES ► SC-200



Body Material
Disc Material
Pipe Plug
Picking Material
Connection Type
Nominal Pressure (PN)
Max. Operating Temperature

Stainless Steel AISI 304
Stainless Steel AISI 304
Stainless Steel AISI 304
PTFE
Threaded
16 bar
180°C

Stainless Steel AISI 316
Stainless Steel AISI 316
Stainless Steel AISI 316
PTFE
Threaded
16 bar
180°C

-THREADED: 1/2" all sizes available in between 2"

SWING TYPE CHECK VALVES ► SC-400



Body Material
Bonnet
Spring
Washer
Connection Type
Nominal Pressure (PN)
Max. Operating Temperature

Brass Ms58
Brass Ms58
Stainless Steel
ABS/NBR
Threaded
16 bar
110°C

-THREADED: 1/2" all sizes available in between 2"

FOOT VALVE



Body Material
Seat
Disc Holder
Spring
Disc
Filter
Connection Type
Nominal Pressure (PN)
Max. Oper. Temp.

Brass-CW617N UNI EN 12165
Brass-CW617N UNI EN 12165
Hostaform Pom-DIN5735
Stainless Steel-UNI 10270-1
Nylon+NBR
Filter Stainless Steel
Threaded
16 bar
110°C

-THREADED: 1/2" all sizes available in between 2"

STAINLESS STEEL BALL VALVES ► V-2T



Body Material
Ball Material
Body Gasket
Ball Seat
Connection Type
Nominal Pressure (PN)
Max. Operating Temperature

Stainless Steel AISI 304
Stainless Steel AISI 304
PTFE
R-PTFE (15%)
Threaded
63 bar
-25/+180°C

Stainless Steel AISI 316
Stainless Steel AISI 316
PTFE
R-PTFE (15%)
Threaded
63 bar
-25/+180°C

-THREADED: 1/2" all sizes available in between 4"

VALVES

STAINLESS STEEL BALL VALVES ► V-3T



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

-THREADED: 1/4" all sizes available in between 4"

STAINLESS STEEL BALL VALVES ► V-3F



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

-FLANGED: DN15 all sizes available in between DN100

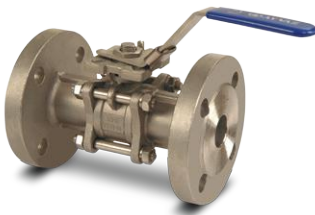
BALL VALVE WITH MOUNTING PAD ► V-3TP



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

- THREADED: 1/2" all sizes available in between 4"

BALL VALVES WITH MOUNTING PAD ► V-3FP



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

-FLANGED: DN15 all sizes available in between DN100

BRASS VALVES FOR WATER ► SK-120



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

-THREADED: 1/2" all sizes available in between 2"

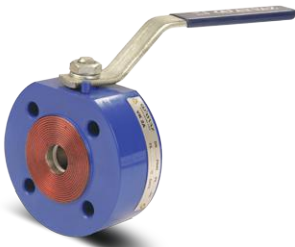
MONOBLOCK VALVES FOR NATURAL GAS ► MBK-50



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

-FLANGED: DN15 all sizes available in between DN100

MONOBLOCK VALVES FOR WATER ► MBK-40



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

-FLANGED: DN15 all sizes available in between DN100

MONOBLOCK VALVES FOR LIQUIDS ► MBK-45



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

-FLANGED: DN15 all sizes available in between DN100

FULL BORE BALL VALVE ► TGV-10



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

DN15 all sizes available in between DN200

FULL BORE BALL VALVE ► TGV-20



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

DN40 all sizes available in between DN300

VALVES

WAFER TYPE BUTTERFLY VALVES ► KV-3



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

DN25 all sizes available in between DN300 for PN16
DN350 all sizes available in between DN600 for PN10 (comes with worm gear)

LUG TYPE BUTTERFLY VALVES ► KV-4



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

DN25 all sizes available in between DN300 for PN16
DN350 all sizes available in between DN600 for PN10 (comes with worm gear)

WAFER TYPE BUTTERFLY VALVES ► KV-7



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

DN25 all sizes available in between DN300 for PN16
DN350 all sizes available in between DN600 for PN10 (comes with worm gear)

LUG TYPE BUTTERFLY VALVES ► KV-8



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

DN25 all sizes available in between DN300 for PN16
DN350 all sizes available in between DN600 for PN10 (comes with worm gear)

WAFER TYPE BUTTERFLY VALVES FOR NATURAL GAS ► KV-9



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

DN25 all sizes available in between DN300 for PN16
DN350 all sizes available in between DN600 for PN10 (comes with worm gear)

WAFER TYPE BUTTERFLY VALVES FOR NATURAL GAS ► KV-10



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

DN25 all sizes available in between DN300 for PN16
DN350 all sizes available in between DN600 for PN10 (comes with worm gear)

WAFER TYPE BUTTERFLY VALVES ► KV-1



Body Material	Cast Iron GG-25
Gasket Material	PTFE
Disc Material	Ni Coated Ductile Iron GGG 40.3
Shaft Material	Stainless Steel AISI 416
Connection Type	Flanged (Wafer Type)
Max. Operating Temperature	180°C

WAFER TYPE BUTTERFLY VALVES ► KV-15



Body Material	Ductile Iron GGG 40.3
Gasket Material	EPDM
Disc Material	Aluminium Bronze
Shaft Material	Stainless Steel AISI 416
Connection Type	Flanged (Wafer Type)
Max. Operating Temperature	110°C

LUG TYPE BUTTERFLY VALVES ► KV-16



Body Material	Ductile Iron GGG 40.3
Gasket Material	EPDM
Disc Material	Aluminium Bronze
Shaft Material	Stainless Steel AISI 416
Connection Type	Flanged (Wafer Type)
Max. Operating Temperature	110°C

STRAINERS ► PTY-30



Body Material	Ductile Iron GGG 40
Gasket	Graphite+Acanthopore Plate
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

DN15 all sizes available in between DN400

YS-600 BRASS STRAINER



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

1/2" all sizes available in between 2"

VALVES

YS-800 FOR LIQUIDS STRAINER



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

1/2" all sizes available in between 2"

DYNAMIC BALANCE VALVES ► DBV-30



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

1/2" all sizes available in between 2"

ASPEN AEROGELS VALVE JACKETS



Fabric Material	Glass 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.	-270 °C (Cryogel X201)

DN15 all sizes available in between DN150

AYVAZ STATIC BALANCE VALVES ► BVD-16



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

1/2" all sizes available in between 2"

AYVAZ STATIC BALANCE VALVES ► BVF-16



Body and Cover	Cast Iron GG-25
Disc Cover	Cast Iron GG-25
Shaft	Brass
Gasket	EPDM
Connection Type	Flanged (Flanges drilled according to EN 1092-2)
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	+120°C

DN65 all sizes available in between DN300

MANOMETER VALVES ► MV-330



Body and Cover	Brass
Shaft	Stainless Steel 1.4104
Valve	Stainless Steel 1.4104
Seat	Stainless Steel 1.4104
Connection Type	Threaded 1/2"
Nominal Pressure (PN)	25 bar
Max. Operating Temperature	200°C

MANOMETER VALVES ► MV-416



Body and Cover	Brass
Shaft	Stainless Steel 1.4104
Valve	Stainless Steel 1.4104
Seat	Stainless Steel 1.4104
Connection Type	Threaded 1/2"
Nominal Pressure (PN)	25 bar
Max. Operating Temperature	200°C

MANOMETER VALVES ► MV-417



Body and Cover	Brass
Shaft	Stainless Steel 1.4104
Valve and seat	Stainless Steel 1.4104
Sealing	PTFE
Connection Type	Threaded 1/2"
Nominal Pressure (PN)	25 bar
Max. Operating Temperature	200°C

BRASS SAFETY VALVES ► SV-254



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

1/2" all sizes available in between 2"

PRESSURE REDUCING VALVE



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

1/2" all sizes available in between 2"

BRASS GATE VALVE



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

1/2" all sizes available in between 2"

VALVES

BRONZE VALVES ► BRONZE GLOBE VALVE



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

1/2" all sizes available in between 4"

BRONZE VALVES ► BRONZE GATE VALVE



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

1/2" all sizes available in between 4"

BRONZE VALVES ► BRONZE BALL VALVE



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

1/2" all sizes available in between 2"

BRONZE VALVES ► BRONZE CHECK VALVE



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

1/2" all sizes available in between 2"

BRONZE VALVES ► BRONZE STRAINER



Body	Bronze CC491K
Cap	Bronze CC491K
Screen	Stainless Steel AISI 304
Gasket	PTFE
Connection Type	Threaded
Nominal Pressure (PN)	20 bar
Max. Operating Temperature	170°C

1/2" all sizes available in between 2"

BELLOW VALVES ► MK-16



Body	A Grey Cast Iron EN-GJL-250	C Nodular Cast Iron EN-GJS-400	F Cast Steel
Seal 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 15-200	DN 15-150

Tests acc. EN - 12266 - 1

Flanges drilled according to EN 1092-2 for body material A, C

Flanges drilled according to EN 1092-1 for body material F

Face-to-face dimension according to EN 558-1 series 1

BRONZE SAFETY VALVES ► L9-LB



Body	Cast Bronze
Seat	Forge Brass
Disc	Forge Brass
Spring	Steel
Sleeve	Brass
Operating Pressure	2.1-10 kgf/cm ²
Operating Temperature	- 45 °C / 185 °C

1/2" all sizes available in between 2"

STAINLESS STEEL SAFETY VALVES ► L9-LS



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 ² - 2,1-10 kgf/cm ² - 11-20 kgf/cm ²
Operating Temperature	- 196 °C / 290 °C

1/2" - 3/4" Angled and straight types are available

KNIFE GATE VALVE ► BV-16



O-Ring	EPDM
Sealing	Graphite
Stem	A182 F304
Sealing Ring	GGG-40
Seat Ring	EPDM
Knife	SS304
Body	GGG-40

DN50 all sizes available in between DN400

WORM GEAR



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

DOUBLE ACTING PNEUMATIC ACTUATOR



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

ELECTRIC ACTUATORS



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

1/2" all sizes available in between 2"

 **AYVAZ**
gücü kazandırır



BALANS VANALARI



BALANCE VALVES



ISO 9001:2000



BALANCE VALVES
VIR VODRV 9505 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	+130°C



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

BALANCE VALVES
VIR VODRV 9555 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	Cast Iron GG-25
Disc Cover	Cast Iron GG-25
Shaft	Brass
Gasket	EPDM
Connection Type	Flanged
Nominal Pressure (PN)	16 bar
Max. Operating Temperature	+130°C



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

DİNAMİK BALANS VANALARI

DYNAMIC BALANCE VALVES



AYVAZ DİNAMİK BALANS VANALARI DBV - 40

AYVAZ DYNAMIC BALANCE VALVES DBV-40

Ayvaz DBV-40 dinamik balans vanası, özellikle ısıtma, soğutma sistemlerinde, endüstriyel tesisatlar, bina mekanik tesisatları, iklimlendirme tesisatlarının debilerinin sabit tutulması gibi uygulamalar için dizayn edilmiştir.

Ayvaz DBV-40 is designed especially for the applications of heating, cooling system, industrial installations, building mechanic installations and enable to fix the flow of air conditioning system.

Kartuşlar vasıtasıyla hatta seçilen debiyi otomatik olarak sağlar. Ayvaz DBV-40 basınç dalgalanmaları altında dahi sistemde seçilen debi' nin sabit seviyede kalmasını sağlar.

It provides the selected flow on the line automatically by way of cartridge. Ayvaz DBV-40 provides to remain the selected flow in stable level in system even under 40 pressure fluctuation.

Özellikler:

- Debisi ayarlı paslanmaz çelik kartuşlar.
- Sistemde istenilen debi değerleri otomatik olarak sağlanır.
- DBV-40'tan önce veya sonra bir boru uzunluğuna ihtiyaç yoktur.
- Sistemin ayarlanması için gerekli olan tüketime ihtiyaç yoktur.
- DBV-40 balans vanaları DN65-DN250 ölçü aralığında üretilirler.

Features

- *Stainless steel cartridges with adjusted flow*
- *Required flow value is provided automatically in system*
- *There is no required lenght for pipe before and after DBV-40*
- *There is no need any consumption for system adjustment*
- *DBV-40 balance valves is produced from DN65 to DN250.*



DBV-30



OTOMATİK AKIŞ KONTROL VANASI AUTOMATIC FLOW CONTROL VALVE

Çap / Diameter	: (1/2") - (2")
Akışkan / Fluid	: Soğuk su / sıcak su / Cold water/Hot water
Çalışma Basıncı Aralığı / Working Pressure Range	: 0,5 - 3
Maks. Çalışma Sıcaklığı / Max. Working Temperature	: 120° C
Montaj Şekli / Mounting	: Dişli / Threaded
Gövde / Body	: Pirinç / Brass
Disk / Disc	: Paslanmaz Çelik / Stainless Steel
Diyafram / Diaphragm	: EPDM

Otomatik akış kontrol vanaları, kullanıldıkları sistemlerde istenilen akış miktarını (debiyi) otomatik olarak dengelemektedir. Değişken debili sistemlerde gidiş ve dönüş hatlarında oluşan fark basıncını koruyarak otomatik olarak akışı sağlarlar. Basit bir çalışma mantığı ve yapısı olan bu vanalar, sisteme beraberinde çok büyük kolaylıklar getirmektedir. Yapılarındaki diyafram ve kontrol yayı sayesinde basınç farkı esasına göre, dengeli bir akış sağlamaktadırlar. Basınç farkını algılayarak, istenen akışı ayarlamaları, çalışma anında sistemden kaynaklanan partikül, tortu vb. dezavantajları tolere edebilmeleri ve güvenli bir akış sağlamaları sebebi ile tercih edilirler. Ayrıca sistemdeki eklemelerden ve çıkartmalardan kaynaklanan basınç farkını algılayarak, herhangi bir ayar gerektirmeksizin otomatik olarak yeni sisteme adaptasyon sağlaması en büyük tercih sebeplerindedir.

Automatic control valves, stabilize automatically the required flow amount in used systems. Provides automatic flow by keeping the pressure that formed on going and returning lines in unsteady systems. Having simple working and its structure these valves bring huge facilities to system. Provides a balanced flow by way of its diaphragm and control spring. Bringing some easiness to systems such as required pressure set adjustments with detecting the difference pressures, enabling to tolerate disadvantages of particle, residue etc. that originated in system made them to be preferable and moreover detecting the pressure difference that originated in additions and removals at system, automatic adaptation to system without any extra adjustment is the most preferable reason of it.

AYVAZ DİNAMİK BALANS VANALARININ AVANTAJLARI

- AYVAZ DİNAMİK BALANS VANALARI, OTOMATİK DENGEME ESASINA GÖRE ÇALIŞMAKTADIR.
- YAYLI TİP BALANS VANALARI, AKIŞ VE BASINCI OTOMATİK OLARAK KONTROL EDER.
- YAPILARINDAKİ DİYAFRAM VE BASINÇ KONTROL YAYI SAYESİNDE, STANDART KARTUŞ TİPİ BALANS VANALARINA ORANLA AKIŞ HATA PAYINI MİNİMİZE EDER.
- AKIŞ DEĞİŞİKLİĞİ AYARI KOLAYCA YAPILABİLMEKTEDİR.
- UYGUN TASARIMLARI NEDENİ İLE SES VE TİTREŞİM ABSORBSİYONLARI YÜKSEKTİR.
- SİSTEMDE SÜREKLİ AKIŞIN OLMASINDAN DOLAYI, TORTU VE PİSLİK OLUŞUMU AZDIR.
- KOLAYLIKLA SÖKÜLÜP TEMİZLENEBİLMEKTEDİR.

ADVANTAGES OF AYVAZ DYNAMIC BALANCE VALVES

- AYVAZ DYNAMIC VALVES WORK ACCORDING TO AUTOMATIC BALANCED BASE.
- SPRING TYPE BALANCE VALVES AUTOMATICALLY CONTROL THE FLOW AND PRESSURE.
- MINIMIZE THE FLOW ERROR MARGIN BY WAY OF HAVING STRUCTURE OF ITS DIAPHRAGM AND PRESSURE CONTROL SPRING AS COMPARED WITH STANDART CARTRIDGE TYPE BALANCE VALVES.
- FLOWCHANGES SET CAN BE MADE EASILY.
- DUE TO APPLICABLE DESIGN, SOUND AND VIBRATION ABSORPTIONS IS HIGH.
- SINCE THERE IS A CONSTANT FLOW IN SYSTEM, RESIDUE AND DIRTINESS.
- FORMATION IS VERY LOW. EASILY DISMANTLING TO BE CLEANED.

VIR STATİK BALANS VANASI

VIR STATIC BALANCE VALVES



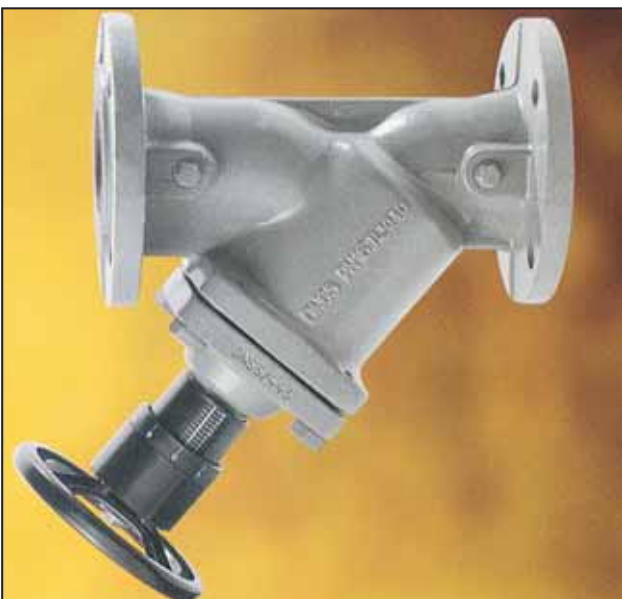
HİDROLİK DENGELEME / HYDRAULIC BALANCE



DRV



VODRV



DRV

Dağıtım kanallarının neredeyse tümünde, her bir kullanıcıya istenen akış miktarının ulaştırılması sağlanmaya çalışılır ve bu sırada sık sık zorluklarla karşılaşılır. Bunların başlıca nedeni, sistemdeki her bir branşman hattının farklı direnç seviyesinde olmasıdır.

Kullanıcılara giden yetersiz akış debisi, sistemin düzgün çalışmamasına neden olmaktadır. Örneğin ısıtma ve havalandırma sistemlerinde bölgeler arasında 5-6 derece sıcaklık farkları oluşmaktadır.

Yetersiz akış debisi, tüketim miktarında artış, sistem elemanlarında erken yıpranma (örneğin pompalar) ve istenmeyen gürültülerin oluşmasına neden olmaktadır. VIR Balans vanaları kullanıldığında, akış debileri dengelenmekte ve bu sayede sistemin düzenli çalışmasını sağlamak için gerekli işletme değerleri sağlanmış olmaktadır.

Çalışan bir sistemde, vananın gövdesindeki pizometrik kafalar uygun aletlerle birlikte kullanıldığında akış debisinin kontrolü yapılabilmektedir.

Required flow proportions to every user is tried to providing to be transmitted to almost entire delivery channels and at the same time get into difficulty often. The main reason of these, every branches lines at system has different resistance level. Inadequate flow debit that goes users cause not to working properly of system. For instance, in inter-zone at heating and air conditioning systems formed 5-6 degree temperature differences. Inadequate flow debit cause increasing consumption proportion, early abrasion of system elements (For instance pumps) and unwanted noise. When using the VIR Balance Valves, flow debit is balanced and by this means required operation value is provided in order to assure to operate system properly. Control of flow debit can be made in case using piezometric head of valve's body with proper tools at a working system.

OPSIYONLAR / OPTIONS



95VR001 / *95VR001*
ALLEN ANAHTARI / ALLEN SCREW
1/2"den-2" e kadar ön ayar için / *For preset from*



95VR003 / *95VR003*
**TORNAVIDA ölçü 1 /
SCREWDRIVER measure 1**
DN65'den-DN150'ye kadar ön ayar için /
For pre-set from DN65 to DN



95TP 1 kırmızı / *95TP 1 red*
95TP 2 mavi / *95TP 2 blue*

**BASINÇ TEST NOKTALARI /
PRESSURE TEST POINTS**



95TPEX / *95TPEX*
UZATMA / EXTENSION
Fig 95TP için / *For Fig 95TP*



MANOMETRE / MANOMETER

95MM001 - radyal 1/4" / *95MM001-radial*
95MM002 - eksenel 1/4" / *95MM002-axial*



34Q / *34Q*
**BOŞALTMA VANASI 1/4" /
EMPTYING VALVE**
dişli bağlantı / *threaded connection*



95DPM / *95DPM*
**DİJİTAL MANOMETRE /
DIGITAL MANOMETER**

95MS / *95MS*
**ÖLÇÜM İSTASYONU /
MEASURE STATION**
1/2" ' den 2" ' e kadar / *metinover*





FIRE PROTECTION PRODUCTS



FIRE PROTECTION PRODUCTS

ANGULAR EXPANSION JOINTS ► GIMBAL TYPE SEISMIC EXPANSION JOINTS



Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Flange Material
Intermediate Pipe

Stainless Steel AISI 321 (Opt. 304, 316L, 316TI, 309)
DN15 (1/2") - DN400 (160")
175 psi
-80°C/+600°C
Fixed Flanged, Welded Ended, Grooved
Carbon Steel St. 37.2 as standard*
Carbon Steel St. 37.2 as standard*



BRAIDED LOOP JOINTS ► FIRE PROTECTION EXPANSION JOINTS



Bellow Material
Braiding Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Fittings Materials
Elbow and Turn Material
Connection Material

Stainless Steel AISI 316L / AISI 321
Stainless Steel AISI 304
DN15 (1/2") - DN300 (12")
175 / 250 psi
-80°C/+600°C
Flange, Welded ends, Grooved
Carbon Steel St. 37.2*
Carbon Steel St. 37.2*
Carbon Steel St. 37.2*



FIRE PROTECTION HOSES ► SPRINKLER CONNECTION HOSES



FM, VdS Approved, UL Type

Hose Type
Hose Material
Braiding Material
Fittings Types
Fittings Materials
Min. Bending Radius

Standard corrugated metal hose
Stainless Steel AISI 316L
Stainless Steel AISI 304
Male-Internal threaded pipe
Carbon Steel St. 37.2/Stainless Steel
200mm



Conn. Size	Hose Dia.
1" x 1/2" - 3/4"	DN20
1" - 1/2"	DN25

FIRE PROTECTION VALVES ► NRS GATE VALVE (DIN EN 1171)



Body
Stem
Disc
O-Ring
Connection
Flange
Grooved Ends
Max. Operating Temp.
Max. Operating Pressure
Coating
Sizes

EN-GJS-450-10
SS 420
EN-GJS-450-10 + EPDM
NBR (EPDM Optional)
Flange-Flange, Flange-Grooved, Grooved-Grooved
DIN EN 1092-2:1997
ISO 6182
80 °C
PN 10/16
Fusion Bonded Epoxy coating in accordance with ANSI/AWWA C550
DN 40 (1 1/2") - DN 400 (16")



FIRE PROTECTION VALVES ► OS&Y GATE VALVE (DIN EN 1171)



Body
Stem
Disc
O-Ring
Connection
Flange
Grooved Ends
Max. Operating Temp.
Max. Operating Pressure
Coating
Sizes

EN-GJS-450-10
SS 420
EN-GJS-450-10 + EPDM
NBR (EPDM Optional)
Flange-Flange, Flange-Grooved, Grooved-Grooved
DIN EN 1092-2:1997
ISO 6182
80 °C
PN 10/16
Fusion Bonded Epoxy coating in accordance with ANSI/AWWA C550
DN 50 (2") - DN 300 (12")



FIRE PROTECTION VALVES ► Y-TYPE STRAINER



Body
Screen
Gasket
Bonnet
Connection
Max. Operating Temp.

Max. Operating Pressure
Coating
Sizes

EN-GJS-450-10
SS 304 Perforated, (Perforated double screen in SS 304 and SS 316 available)
EPDM, (Graphite + Acanthopore plate available)
EN-GJS-450-10
Flanged, DIN EN 1092-2:1997
80 °C (Rubber Gasket)
350 °C (Graphite gasket)
PN 10/16
Fusion Bonded Epoxy coating in accordance with ANSI/AWWA C550
DN 40 (1½") - DN 400 (16")



FIRE PROTECTION VALVES ► SWING CHECK VALVE DIN EN 12334



Body
Disc
Washer
Seat Ring
Connection
Max. Operating Temp.

Max. Operating Pressure
Coating
Sizes

EN-GJS-450-10
EN-GJS-450-10 + EPDM
SS 420
Brass Hpb 59-1 Pressed fit, (Pressed fit or threaded SS 304 or 316 available)
Flanged, DIN EN 1092-2:1997
80 °C (Rubber Gasket)
350 °C (Graphite gasket)
PN 10/16
Fusion Bonded Epoxy coating in accordance with ANSI/AWWA C550
DN 40 (1½") - DN 400 (16")



FIRE PROTECTION VALVES ► BRONZE BUTTERFLY VALVES



Body
Disc
Upper and Lower Stem
O-Rings (All)
Connection
Max. Operating Temp.
Max. Operating Pressure
Sizes

ASTM B-505 or SUS 304
ASTM B-584 EPDM Encapsulated
ASTM A-564 Type XM 12
EPDM Grade E
Threaded, BT
120 °C
175 Psi
DN 25 (1") - DN 65 (2½")



FIRE PROTECTION VALVES ► GROOVED BUTTERFLY VALVES



Body
Disc
Upper and Lower Stem
Worm Gear Shaft
Connection
Max. Operating Temp.
Max. Operating Pressure
Sizes

ASTM A-536 Nylon-11 or Epoxy coated
ASTM A-536 EPDM Encapsulated
SS, AISI 420
SS, AISI 410
HPG Grooved End
120 °C
300 Psi
DN 65 (2½") - DN 300 (12")



FIRE PROTECTION VALVES ► WAFER TYPE BUTTERFLY VALVES



Body
Disc
Upper and Lower Stem
Worm Gear Shaft
Connection
Max. Operating Temp.
Max. Operating Pressure
Sizes

ASTM A-536 Nylon-11 or Epoxy coated with EPDM Gasket
ASTM A-536 EPDM Encapsulated
SS, AISI 420
SS, AISI 410
Wafer
120 °C
300 Psi
DN 65 (2½") - DN 200 (8")



FIRE PROTECTION VALVES ► GROOVED CHECK VALVES



Body
Clapper

Seat Ring
Spring
Connection
Max. Operating Temp.
Max. Operating Pressure
Sizes

Ductile Iron conforming to ASTM A536, Epoxy coated
2"-5" Type 304 or 302 Stainless Steel acc to ASTM A167
6"-8" Ductile Iron conforming to ASTM A536 Grade 65-45-12
SS, AISI 304
Type 302 stainless steel to ASTM A 269
Grooved End
120 °C
300 Psi
DN 50 (2") - DN 200 (8")



FIRE PROTECTION PRODUCTS

FIRE PROTECTION VALVES ► WET ALARM VALVE & SYSTEM



Body (Wet alarm Valve)
Seat (Wet alarm Valve)
Clapper Bush (Wet alarm Valve)
Connection
Max. Operating Pressure
Sizes

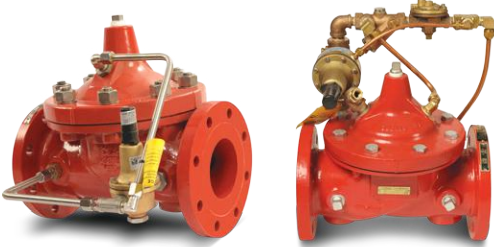
Ductile Iron
Bronze
Brass
Flange-Flange, Flange-Grooved, Grooved-Grooved
250 Psi
DN 80 (3") - DN 200 (8")

System Components

Wet Alarm valve
Pressure Switch
Retarding Chamber
Trim Set
Sprinkler Alarm



FIRE PROTECTION VALVES ► CLA-VAL PRESSURE RELIEF & REDUCING VALVE



Main valve body & cover
Main valve internal trim
Pilot control system
Adjustment pressure range

Ductile Iron ASTM A-536
Bronze ASTM B61
Bronze ASTM B62 with 303 Stainless Steel trim
150 class - 30-165 psi
300 class - 30-165 psi
Water, to +180°F max.
Globe: 3" - 8"
Angle: 3" - 8"
150 and 300 ANSI B16.42

Temperature Range
Sizes

Flange



FIRE PROTECTION VALVES ► TEST DRAIN VALVE

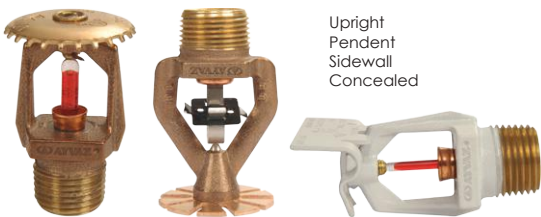


Body
Ball
Seat
Connection
Max. Operating Pressure
Sizes

Forged Brass
Chrome Plated
Teflon
NPT Threaded, Female
300 Psi
1"-1 1/4"-1 1/2"-2"



FIRE PROTECTION EQUIPMENT ► SPRINKLERS



Upright
Pendent
Sidewall
Concealed

Connection Dia
Installation Pos.
K-Factor
Temperature
Surface

1/2", 3/4", 1" npt
Pendent, Upright, Sidewall
40, 80, 115, 160, 200, 242, 320, 363
57 °C, 68 °C, 74 °C, 96 °C ... 260 °C
Brass, White, Chrome



FIRE PROTECTION EQUIPMENT ► SYSTEM SENSOR FLOW SWITCH



Sizes
Pressure Rating
Accessories
Minimum Flow Rate for Alarm
Maximum Surge
Contact Ratings

Steel Pipe schedules 10 to 40, sizes 1" to 8"
BS 1387 pipe 50mm thru 200mm
Up to 450 PSI (31 bar)
A Conventional Trim Trim package for use with the Model F-1 Deluge Valve.
10 GPM (38 LPM)
18 FPS (5.5 m/s)
10.0 Amps at 125/250VAC
2.5 Amps at 6/12/24VDC Resistive
Two knockouts provided for 1/2" conduit

Conduit Entrances



FIRE PROTECTION EQUIPMENT ► 100 TONG GROOVED PIPING PRODUCTS

Body
Gasket
Bolt and Nuts
Temperature Range

GGG 40.3 Ductile Iron
EPDM (Standard)
Galvanized Carbon Steel
-50/+150 °C



EQUAL T



CONCENTRIC REDUCERS



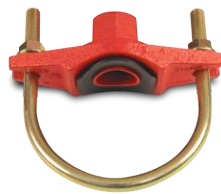
RIGID COUPLINGS



FLEXIBLE COUPLINGS



U-BOLTS



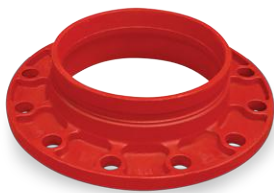
GROOVED FLANGES



REDUCING COUPLINGS



FLANGE ADAPTERS



ELBOWS



GROOVED MECHANICAL T



THEADED MECHANICAL T



Gasket Material	Temperature	Application Areas
EPDM	-34 °C +150 °C	Cold and hot water, non-oil gas, diluted acid, alkaline salt
Silicon	-40 °C +177 °C	Drinking water, hot water, high-temperature air and some high-temperature chemicals
Nitrile	-29 °C +82 °C	Oil, oil-gas, mineral oil, vegetable oil, hot water, water with temperature of not than 65°C are forbidden

FIRE PROTECTION EQUIPMENT ► FIRE HYDRANTS



Body & Elbow
Stem
Gasket
Size
Pressure Class

Cast Iron GG-25
Stainless Steel
EPDM
DN 100
PN 16

FIRE HOSE VALVES

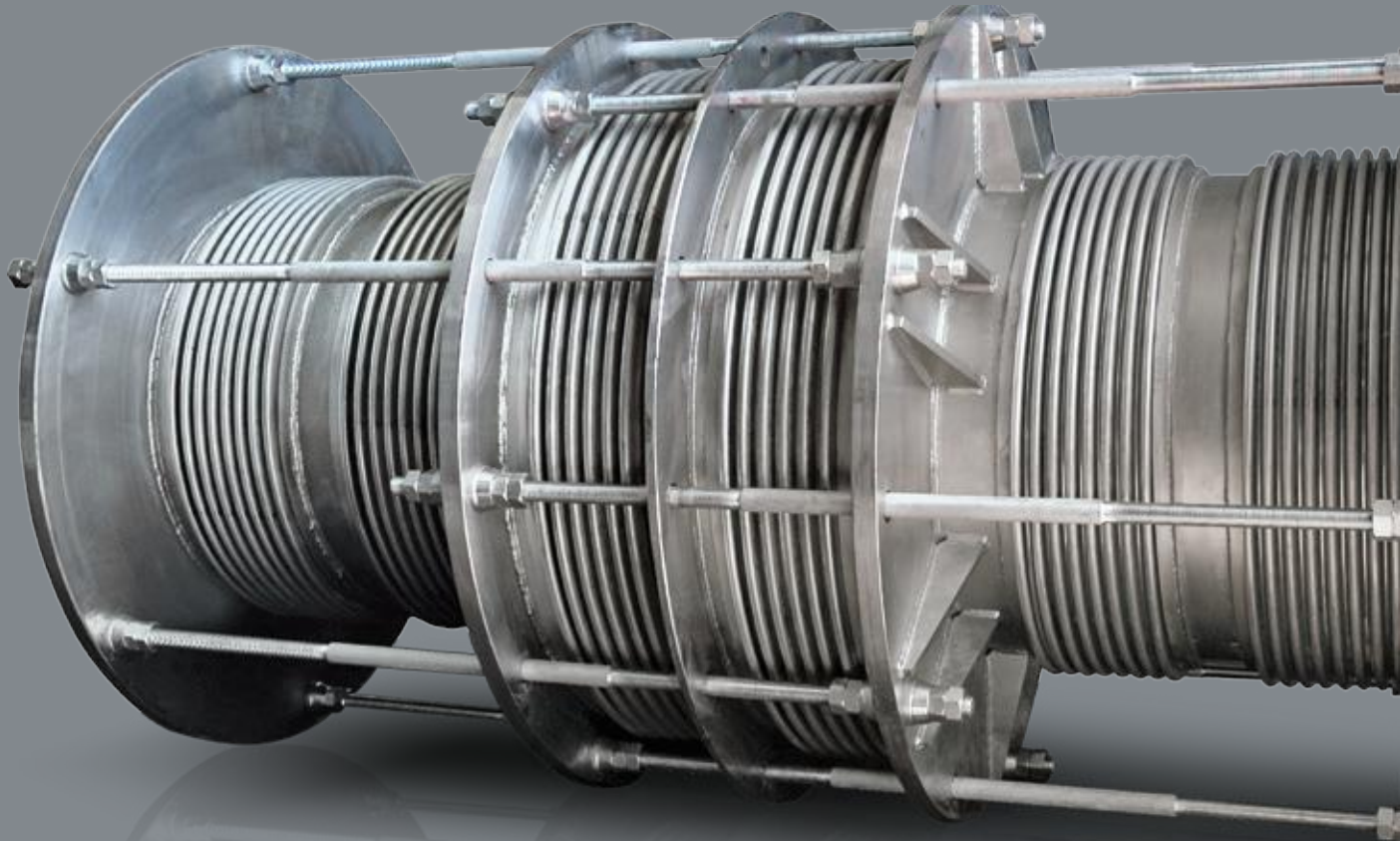


Body
Size
Accessories

Brass
2½" NPT. threaded
Storz Coupling (1)

STORZ COUPLINGS





EXPANSION JOINTS

for **POWER GENERATION & ENERGY**



PRESSURE BALANCED EXPANSION JOINTS

FOR GEOTHERMAL ENERGY

Ayvaz uses its extensive experience in producing expansion joints for Geothermal power generation piping systems with a remarkably impressive reference list.

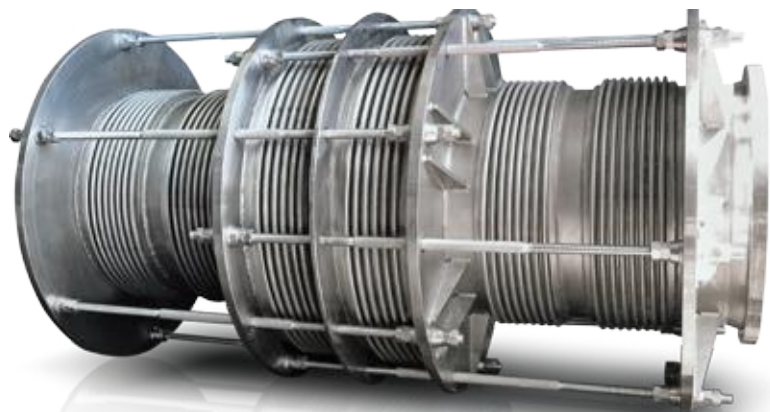
GEOTHERMAL POWER

One common feature of most of power generation systems is to convert heat to electricity. In geothermal power plants, heat is provided by Earth (Geo) Energy is accessed by drilling water or steam wells by very similar method used for drilling for crude oil.

Geothermal power plants have similar components which are already used for traditional power generation systems likewise turbines, generators, transformers and other equipment.

PRESSURE BALANCED EXPANSION JOINTS

- Bellows design for Isopentane vapour
- High pressure&full vacuum
- Combined axial and lateral movements



PRESSURE BALANCED EXPANSION JOINTS FOR GEOTHERMAL ENERGY

BENEFIT

A pressure balanced expansion joint is used to accommodate and counteract the bellows pressure thrust. An additional bellows joins to the construction to incorporate into the unit and is subject to the line pressure to generate a force equal and opposite to that on the main bellows. Connecting all these bellows together neutralizes the pressure load on the construction.

Pressure balanced expansion joints are generally installed at changes of direction in piping (elbow type) but in-line types are also available.

Use of pressure balanced expansion joints helps the piping designers not to create main anchors to accommodate combined movements at the direction changing points

Limited number of manufacturers design and manufacture pressure balanced expansion joints requires a great deal of knowledge and expertise.

Ayvaz is a member of this exclusive group.





DIMENSIONS

Pressure balanced expansion joints designed and manufactured by Ayvaz are units typically ranging up to DN 1000-2000, 8-10 tons in weight and up to 8 meters in length.

REFERENCE PROJECTS

Umurlu I - II - 24 MW Geothermal Power Plant
GEX 1200 - 2 x 12 MW Kemaliye Geothermal Power Plant
GEX 2500 - 25MW Ken Kipaş 2&3 Geothermal Power Plant
GEX 2400 - 24 MW Kubilay Geothermal Power Plant
GEX 1300 - 12MW Geothermal Power Plant

The general capability range for Ayvaz expansion joints is:

- Dimension: DN 15-4000
- Bellows: Rolled, punch- and hydraulic formed bellows
- Design pressure: Up to 150 bar (depending on the diameter and temperature)
- Lifting capacity: Up to 16 ton





AXIAL & LATERAL EXPANSION JOINTS

FOR GAS TURBINE OUTLETS

Ayvaz produces, expansion joints with combined axial and lateral movement absorption capacity for the power conversion systems.

Ayvaz has a huge range of single and double bellowed expansion joints are to be used at the exhaust lines of the Gas turbine which are used to absorb the thermal expansion of the exhaust pipelines as a result of produced exhaust gases with high temperature and high velocity.

GAS TURBINES

The basic operation of the gas turbine is similar to that of the steam power plant except that air is used instead of water. Fresh atmospheric air flows through a compressor that brings it to higher pressure. Energy is then added by spraying fuel into the air and igniting it so the combustion generates a high-temperature flow. This high-temperature high-pressure gas enters a turbine, where it expands down to the exhaust pressure, producing a shaft work output in the process.

POWERSHIPS

Powership is the name given to a barge or ship mounted fully integrated floating power plants. They deliver fast track, utility size & grade power plants, with no completion or construction risk, ready for power supply directly into the transmission network from its onboard high-voltage substation.

AYVAZ EXPANSION JOINTS

- Bellows design for exhaust gasses
- High temperature & high speed
- Combined axial and lateral movements

Expansion joints to be used at Gas turbine exhaust lines are completed with stainless steel internal sleeves in order to maintain service security due to high velocity of the outlet gas.

Reference Projects

- 2x225 MW Ghana Project
- 5x125 MW Indonesia Project
- 2x125 MW Lebanon Project
- 1x100 MW Zambia Project



AXIAL & LATERAL EXPANSION JOINTS FOR GAS TURBINE OUTLETS

DESIGN

Generally speaking pressure balanced expansion joints can be divided into 3 main categories:

BELLOWS DESIGN

Bellows of pressure balanced expansion joints are designed according to EJMA 10 code. For high pressure applications multi layered bellows (5/7 plies) with reinforcing rings.

According to the requested features like type of transported media, spring rate values (axial, lateral, angular) or operation temperature, pressure & life cycle bellows material could be customized.

Most commonly used bellows materials are;

*300 Series stainless steel (any type of general service:

H=High temperature
L=Low carbon content
300, 304L, 316, 316L, 309, 310, 321

*High Nickel Materials

Monel 400 (Sea water, high corrosive) and Inconel 600 (sea water & marine) Inconel 625 LCF (low cycle fatigue): oil refineries & chemical plants in high temperature service due to high strength at high temperatures

Ayvaz cooperates only with the most qualified and experienced material providers.

CONSTRUCTION

Expansion Joints are the parts of piping system of pressurized equipment. In this respect construction of the expansion joints are designed and produced according to European pressurized equipment directive (PED 97/23/EC) as well as American National Standard for piping process ASME B 31.3.

All components of the expansion joints like, pipes, caps, flanges, tie rods etc... are checked by piping stress analyzing software thus enable us to select material type & thickness according to permissible stress values.

TESTS & CERTIFICATION

All welding operations for the construction of expansion joints are completed according to European norms. All WPS are issued acc.to EN 15609-1 All PQR are issued acc.to EN 15614-1 All welder certifications are issued acc. to EN 9606-1

NDT Controls

Non-destructive testing for welding controls are completed in house by the TÜV accredited third party inspectors. Following controls and standards are applicable.

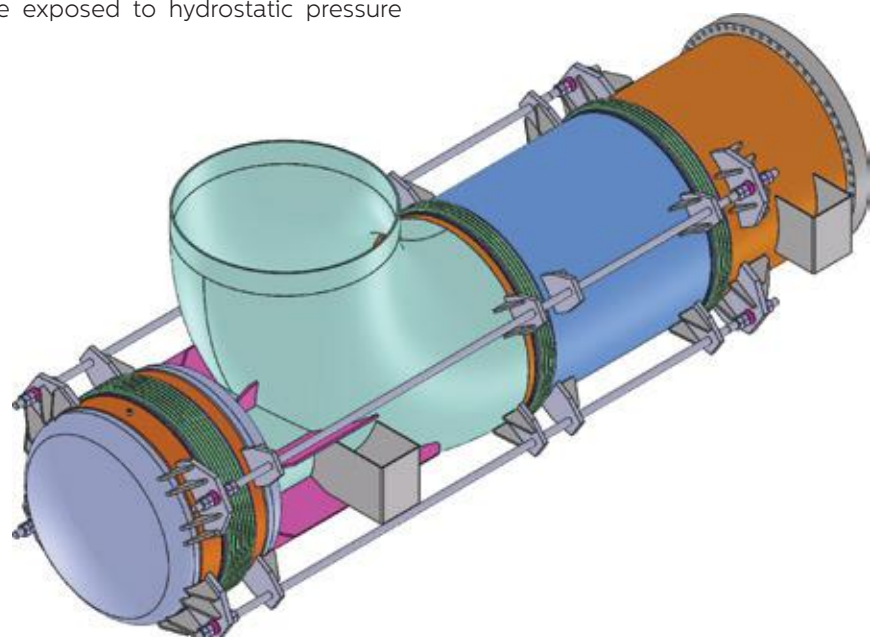
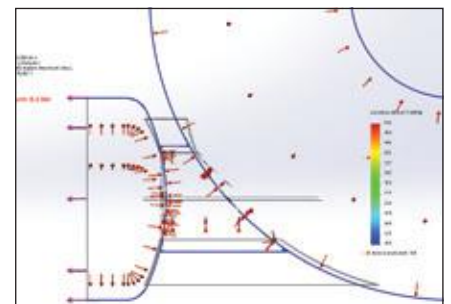
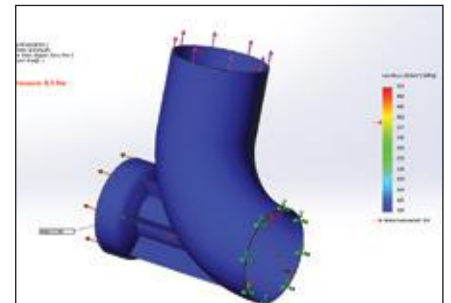
100%PT acc.to EN3452-1,EN23277
100% MT acc.to EN17638,
100%VT for Fillet welds
100%RT acc.to EN ISO 10675-1, EN 17636
100%UT acc. to EN 17640, EN 11666

PRESSURE TEST & LEAK DETECTION

Pressure balanced expansion joints are exposed to hydrostatic pressure

at 1,5 times (acc.to EJMA code) or 1,43 times (acc. to. PED 97/23/EC) of the design pressure.

For full vacuum applications, vacuum test at 760 Hg/mm is also applicable. Additionally, gas leakage detection with helium is advised for proper tightness.



QUALITY & SERVICES

We are very much involved in projects, where expansion joints are a part of a critical piping systems, we are aware of the importance of the supporting documentation.

QUALITY ASSURANCE

We are very much involved in projects, where expansion joints are a part of a critical piping systems, we are aware of the importance of the supporting documentation. Thus detailed quotation, supporting calculations, extensive quality control and testing procedures will generally be a part of the project documentation.

This also includes a study of provided specifications, close dialogue with the customer, inspection of welding consumables, materials and a sub-supplies audit, test, documentation and initial inspection.

DOCUMENTATION AND TESTS

Complete traceability and welding documentation. Among others: WPS WPQR PQR NDT

We undertake the required tests such as: Positive material identification (PMI), radiographic examination, dye penetrant, magnetic particle exami-

nation, hardness testing, ultra sound, pressure testing and leak detection.

SERVICE

Engineering services

We are used working with complex specifications and advanced technical solutions and as part of our service we provide: CAD, 3D parametric design and pipe stress analysis.

ON-SITE SERVICES

Installation of expansion joints is complex and calls for experienced installers.

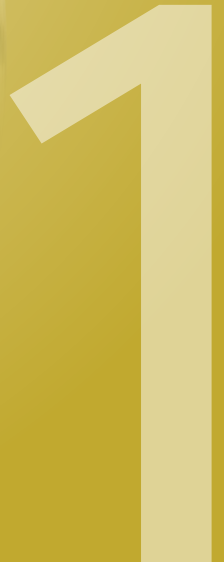
Therefore customers often require our assistance and advice. In addition to design and manufacture pressure balanced expansion joints in general, we have an experienced service team that assists customers on all kinds of onsite work including:

- Full installation
- Supervision of installation
- Repair/refurbishment





EXPANSION JOINT



AXIAL EXPANSION JOINTS



Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Connection Material

Optional

Stainless Steel AISI 321 (Opt. 304, 316L, 316TI, 309)
DN15 (1/2") - DN3800 (152")
PN 2,5/6/16/25/40/64
-80°C/+600°C
Fixed and Floating Flanged and Welded Ended
Carbon Steel St. 37.2 as standard,
The material can be customized on request
Inner Sleeve Stainless Steel
AISI 321 (Opt. 304, 316L, 316TI, 309)

AXIAL EXPANSION JOINTS ► EXTERNALLY PRESSURIZED



Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Flange Material

Optional

Stainless Steel AISI 321 (Opt. 304, 316L, 316TI, 309)
DN15 (1/2") - DN3800 (152")
PN 2,5/6/16/25/40/64
-80°C/+600°C
Fixed and Floating Flanged and Welded Ended
Carbon Steel St. 37.2 as standard,
The material can be customized on request
Inner Sleeve Stainless Steel
AISI 321 (Opt. 304, 316L, 316TI, 309)

AXIAL EXPANSION JOINTS ► PIPE EXPANSION JOINTS



Bellow Material
Body Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types

Stainless Steel AISI 316L
Aluminium (Opt. Stainless Steel)
DN15 (1/2") - DN250 (10")
PN 16
Max 100°C
Threaded and Welded Ended

AXIAL EXPANSION JOINTS ► VIBRATION ABSORBER



Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Connection Material
Tie Rod Material

Stainless Steel AISI 321 (Opt. 304, 316L, 316TI, 309) Double Plyed
DN15 (1/2") - DN3800 (152")
PN 2,5/6/16/25/40/64
-80°C/+600°C
Fixed Flanged
Carbon Steel St. 37.2 as standard*
Carbon Steel St. 37.2 as standard*

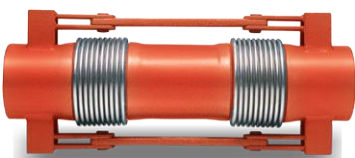
AXIAL EXPANSION JOINTS ► BRAIDED VIBRATION ABSORBER



Bellow Material
Braiding Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Connection Material

Stainless Steel AISI 321
Stainless Steel AISI 304
DN15 (1/2") - DN300 (12")
16 bar
-80°C/+600°C
Fixed and Floating Flanged and Welded Ended
Carbon Steel St. 37.2 as standard*

LATERAL EXPANSION JOINTS ► HINGED



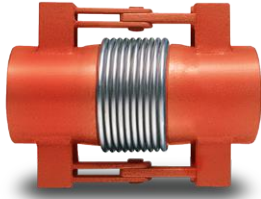
Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Flange Material

Stainless Steel AISI 321 (Opt. 304, 316L, 316TI, 309)
DN15 (1/2") - DN3800 (152")
PN 2,5/6/16/25/40/64
-80°C/+600°C
Fixed and Floating Flanged and Welded Ended
Carbon Steel St. 37.2 as standard*

* The materials can be customized on request.

Ayvaz products are subject to technical alterations and deviations resulting from the manufacturing process.

ANGULAR EXPANSION JOINTS ► HINGED



Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Flange Material

Stainless Steel AISI 321 (Opt. 304, 316L, 316TI, 309)
DN15 (1/2") - DN3800 (152")
PN 2,5/6/16/25/40/64
-80°C/+600°C
Fixed and Floating Flanged and Welded Ended
Carbon Steel St. 37.2 as standard*

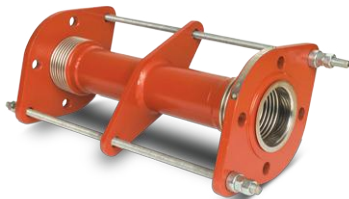
ANGULAR EXPANSION JOINTS ► GIMBAL TYPE SEISMIC EXPANSION JOINTS



Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Flange Material
Intermediate Pipe

Stainless Steel AISI 321 (Opt. 304, 316L, 316TI, 309)
DN15 (1/2") - DN2600 (102")
PN 2,5/6/16/25/40/64
-80°C/+600°C
Fixed Flanged, Welded Ended, Grooved
Carbon Steel St. 37.2 as standard*,
Carbon Steel St. 37.2 as standard*

LATERAL EXPANSION JOINTS ► DILATATION EXPANSION JOINTS WITH TIE RODS



Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Flange Material
Tie Rod Material
Intermediate Pipe

Stainless Steel AISI 321 (Opt. 304, 316L, 316TI, 309)
DN15 (1/2") - DN2600 (102")
PN 2,5/6/16/25/40/64
-80°C/+600°C
Fixed Flanged, Welded Ended, Grooved
Carbon Steel St. 37.2 as standard*,
Carbon Steel St. 37.2 as standard*,
Carbon Steel St. 37.2 as standard*

BRAIDED LOOP JOINTS ► FIRE PROTECTION EXPANSION JOINTS



Bellow Material
Braiding Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Fittings Materials
Elbow and Turn Material
Connection Material

Stainless Steel AISI 316L
Stainless Steel AISI 304
DN15 (1/2") - DN250 (10")
175, 250 psi
-80°C/+600°C
Flange, Welded ends, Grooved
Carbon Steel St. 37.2*
Carbon Steel St. 37.2*
Carbon Steel St. 37.2*

RUBBER EXPANSION JOINTS ► THREADED



Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Connection Material

Special Synthetic Rubber
DN20 (3/4") - DN100 (4")
10 bar
Max. 90°C
Threaded
Cast Iron

RUBBER EXPANSION JOINTS ► FLANGED



Bellow Material
Nominal Diameter
Operating Pressure
Operating Temperature
Connection Types
Connection Material

Special Synthetic Rubber
DN32 (3/4") - DN400 (16")
16 bar
Max. 90°C
Floating Flanged
Ductile Iron GGG 40.3 (Optional composite)

* The materials can be customized on request.

Ayvaz products are subject to technical alterations and deviations resulting from the manufacturing process.



LEVEL CONTROL



LEVEL CONTROLLERS

LEVEL CONTROLLERS FOR STEAM BOILERS ► FANTINI COSMI LEVEL REGULATORS



Body
Float

Shaft
Bellow
Connection Types

Ductile Iron GGG 40.3
Stainless Steel AISI 316
Teflon Coated (Optional)
Stainless Steel AISI 316
Stainless Steel AISI 316L
Flanged and threaded

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

LEVEL CONTROLLERS FOR STEAM BOILERS ► ELK-4/ELK-4F



Box Panel
Body
Flange
Electrodes
Electrode Insulation
Intermediate Disc
Connections
Max. Operating Pressure
Max. Operating Temperature
Control Type

Aluminium Injection
Stainless Steel 1.4517
Forged Steel 1.0460
Stainless Steel 1.4517
PTFE
PTFE
Flanged and threaded
32 bar
238°C
On/Off

	DIMENSIONS	
	(Threaded) DIN ISO 228/1	(Flanged) PN 40, DIN 2635
Size	1"	DN50
Length (mm)	500	436
	1000	936
	1500	1436

LEVEL CONTROLLERS FOR STEAM BOILERS ► KP-01 CAPACITIVE LEVEL ELECTRODE



Body
Box Panel
Flange
Electrodes
Electrode Insulation
Intermediate Disc
Connections
Analog Output
Max. Operating Pressure
Max. Operating Temperature

Stainless Steel 1.4517
Aluminium Injection
Forged Steel 1.0460
Stainless Steel 1.4517
PTFE
PTFE
Flanged and threaded
4-20 mA or (0-10V)
32 bar
238°C

	DIMENSIONS	
	KP01 (Threaded) DIN ISO 228/1	KP01-F (Flanged) PN 40, DIN 2635
Size	3/4"	DN50
Length (mm)	300 - 2000	275 - 1975

LEVEL CONTROLLERS FOR STEAM BOILERS ► RC-11 LEVEL GAUGE WITH SIGHT GLASS



Body
Frame
Drain Plug and Liquid main Body
Connections
Max. Operating Pressure
Max. Operating Temperature

Cast Iron GG-25
A105
Cast Iron GG-25
Flange
16 bar/40 bar
250°C

DIMENSIONS	
(Flanged) PN 16, PN 40	DN20
Length (mm)	300 - 3000

MAGNETIC LEVEL GAUGES ► MGK-33



Body
Float
Magnetic Disc
Flange Material

Connections
Max. Operating Pressure
Max. Permissible Temperature
Contact Signal
Drain Plug

Stainless Steel AISI 316
Stainless Steel AISI 316L
Aluminium
Carbon Steel St. 37.2 /
Stainless Steel (Optional)
Flange
25 bar
200°C
Yes
3/4"

DIMENSIONS	
(Flanged) PN 16	DN15 DN20 DN25 DN32 DN40 DN50
Length (mm)	300 - 5000

MAGNETIC LEVEL GAUGES ► MG-33



Body
Float
Magnetic Disc
Flange Material

Connections
Max. Operating Pressure
Max. Permissible Temperature
Contact Signal
Drain Plug

Stainless Steel AISI 316
Stainless Steel AISI 316L
Plastic
Carbon Steel St. 37.2
(Opt. Stainless Steel)
Flange
16 bar
160°C
Yes
3/4"

DIMENSIONS	
(Flanged) PN 16	DN15 DN20 DN25 DN32 DN40 DN50
Length (mm)	300 - 5000

MAGNETIC LEVEL GAUGES ► MG-33P (PVC)



Body and Float
Magnetic Disc
Flange Material
Connections
Max. Operating Pressure
Max. Permissible Temperature
Contact Signal

PVC
Plastic
PP-V
Flange
6 bar
70°C
Yes

DIMENSIONS	
(Flanged) PN 6	DN20
Length (mm)	300 - 3000

MAGNETIC LEVEL GAUGES ► MG-33S



Body
Float
Magnetic Disc
Flange Material

Connections
Max. Operating Pressure
Max. Permissible Temperature
Contact Signal
Drain Plug

Stainless Steel AISI 316
Stainless Steel AISI 316L
Plastic
Carbon Steel St. 37.2
(Opt. Stainless Steel)
Flange
10 bar
160°C
No
3/8"

DIMENSIONS	
(Flanged) PN 10	DN20
Length (mm)	300 - 3000



MAGNETIC LEVEL GAUGES ► MG-33SC WITH SCALE



Body
Float
Magnetic Disc
Flange Material

Connections
Max. Operating Pressure
Max. Permissible Temperature
Contact Signal
Drain Plug

Stainless Steel AISI 316
Stainless Steel AISI 316L
Plastic
Carbon Steel St. 37.2
(Opt. Stainless Steel)
Flange
10 bar
160°C
Yes
3/8"

DIMENSIONS	
(Flanged) PN 10	DN20
Length (mm)	300 - 3000



DIGITAL LEVEL SENSING ELEMENTS ► EG-11



Body and Float
Supply Voltage
Flange Material
Max. Permissible Temperature
Analog Output
Max. Operating Pressure
Connections
Accessories

Stainless Steel AISI 304
220 VAC (24 V optional)
Carbon Steel St. 37.2/Stainless Steel
-10/+125°C
4-20 mA or (0-10V)
16 bar
Flange, BSP or NPT Threaded
Control Panel and D.Display

DIMENSIONS	
(Threaded) BSP or NPT	2"
(Flanged) PN 10	DN50 DN100
Length (mm)	300 - 3000



ANALOGUE LEVEL SENSING ELEMENTS ► AU-22



Body and Float
Max. Permissible Temperature
Flange Material
Max. Switch Voltage
Max. Operating Pressure
Connections
Accessories
Contact Types
Switch Capacity
Switch Circuit
Contact Quantity

Stainless Steel AISI 304
-10/+125°C
Carbon Steel St. 37.2/Stainless Steel
400 VAC/DC
16 bar
Flange, BSP or NPT Threaded
Control Panel with 4 contacts
N.O (Normally Open) - C.O (Change Over)
N.O 60 VA - C.O 60 VA
N.O 3.0 VA - C.O 1.0 VA
N.O 6 max - C.O 2 max

DIMENSIONS	
(Threaded) BSP or NPT	2"
(Flanged) PN 10	DN50 DN100
Length (mm)	300 - 3000



ANALOGUE LEVEL SENSING ELEMENTS ► AU-21



Body and Float
Max. Permissible Temperature
Max. Switch Voltage
Max. Operating Pressure
Connections
Min Density
Contact Types
Switch Capacity
Switch Circuit

Stainless Steel AISI 304
-10/+125°C
400 VAC/DC
16 bar
3/8" Threaded
0.8 kg/m³
N.O (Normally Open)
C.O (Change Over)
60 VA
1.0 VA

DIMENSIONS	
(Threaded) BSP or NPT	3/8"
Length (mm)	100 - 700



LEVEL CONTROLLERS

ANALOGUE LEVEL SENSING ELEMENTS ► AU-20



AU-20 YD AU-20 YK AU-20 DK AU-20 DD



Body and Float
Max. Permissible Temperature
Max. Switch Voltage
Max. Operating Pressure
Connections
Min Density
Contact Types
Switch Capacity
Switch Circuit

Stainless Steel AISI 304
-10/+125°C
400 VAC/DC
10/16 bar
3/8" Threaded
0.8 kg/m³
N.O (Normally Open)
60 VA
3.0 VA

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

FLOW SWITCHES ► AK-100



Sheet Body
Cover
Gasket
Fittings Type
Fittings Material
Max. Liquid Pressure
Max. Liquid Temperature
Micro Switches
Max. Pipe Diameter

Stainless Steel
ABS
NBR
Female 1"
Brass MS 56
11 bar
-30/+120°C
15 (8) A-220V
10" (12" Optional)

DIMENSIONS	
Threaded	1"
Quantity of Adjustment Plates	5 pcs

FLOW SWITCHES ► C-4

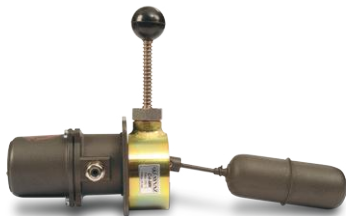


Float
Connections
Flange Material
Shaft
Micro switches
Max. Operating Pressure
Max. Operating Temperature

Stainless Steel AISI 316L
Square Flange
Carbon Steel St. 37.2/Stainless Steel
Aluminium Injection
16A (Normally open or closed)
6/16 bar
-20/+150°C

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

FLOW SWITCHES ► C-4 WITH CONTROL UNIT



Float
Connections
Flange Material
Shaft
Micro switches
Max. Operating Pressure
Max. Operating Temperature

Teflon Coated Stainless Steel
Square Flange
Carbon Steel St. 37.2/Stainless Steel
Aluminium Injection
16A (Normally open or closed)
6 bar
-20/+150°C

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

FLOW SWITCHES ► C-2



Float
Connections
Cover
Gasket
Micro switches
Max. Operating Pressure
Max. Operating Temperature

Stainless Steel AISI 316L
BSP Threaded (Female)
ABS
NBR
16A (Normally open or closed)
6 bar
-20/+150°C

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

FLOAT VALVE ► KTS-50



Float
Body
Movement Parts
O-Ring
Closing Valve Gasket
Max. Operating Pressure
Max. Operating Temperature
Connection

Stainless Steel AISI 316L
Carbon Steel
Stainless Steel 304
EPDM
PTFE
6/8 bar
90°C
3/4" Male

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

BOTTOM BLOWDOWN VALVE ► DBV-10



3 Pieced Ball Valve (V-3FP)
 Timer (Controller)
 Pneumatic Actuator
 Single Actuation (Standard, NC)
 Spring Controlled
 Selenoid Valve
 Limit Switch
 Double Actuation (Optional)

Flanged	
DIMENSIONS	DN40 (Standard) DN15-20-25-32-50-65 (Optional)
	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		

SURFACE BLOWDOWN SYSTEM ► YBS-10



Conductivity Measuring Probe
 Conductivity Transmitter (with LCD screen)
 Digital Regulator
 Surface Control Valve with Electric Motor
 Service Support Before Installation
 DN20 PN40 Metal Bellows Valve
 DN20 PN40 Disco Check Valve

Flanged	
DIMENSIONS	DN20 (Standard) DN15-25-32-50-65 (Optional)
	Please contact our sales team for customized dimensions.



Valve and Steam Trap Jackets



تاریخ: ۱۳۹۷/۰۲/۰۴
 شماره: پ ت ز // ۳۴۷۳
 پیوست :

بسمه تعالی



شرکت پالایش نفت تبریز (سهامی عام)

مدیر عامل محترم شرکت نیکو بازار خاورمیانه

موضوع: تائید کاورهای حرارتی

با سلام،

احتراماً عطف به نامه شماره ۷۷۷/۱۰/۴۰ مورخ ۹۷/۱/۲۱ باستحضار میرساند نمونه کاورهای حرارتی ارسالی آن شرکت محترم، از نظر مقاومت در برابر اتلاف انرژی، قابلیت نصب در فضای آزاد، سهولت نصب و استفاده مورد تائید می باشد.

و من...التواثق

اسماعیل آقاپور

مدیر تدارکات کالا و انبارها

Why Should I Use a Jacket?

If, armatures like valves and steam jackets are not insulated,
THEY CAUSE HUGE ENERGY LOSSES!

Minimising the energy losses through proper insulation
REDUCES THE ENERGY COST OF YOUR BUSINESS!

Easily removable and re-attachable valve and steam trap jackets
PROVIDE EASY MAINTENANCE!

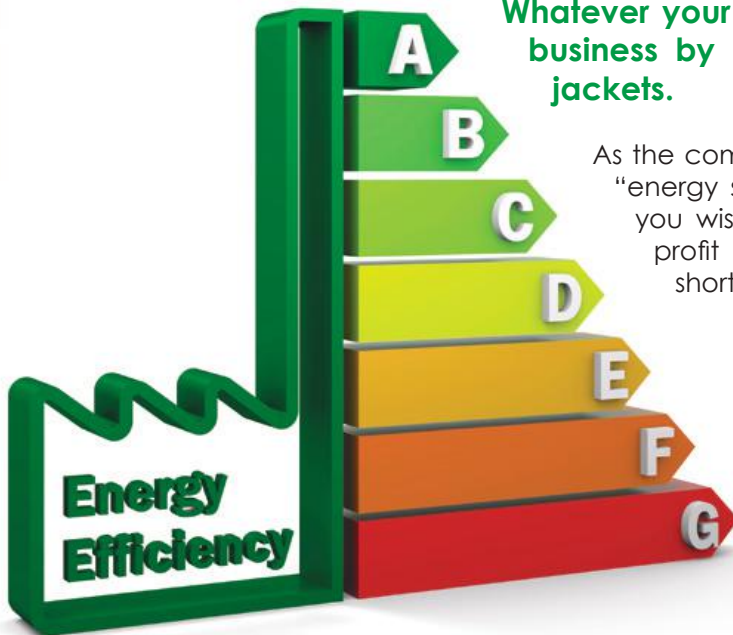


What mark

would you rate your business in terms of **energy efficiency**?

Whatever your answer is, you can still level up your business by using Ayvaz's valve and steam trap jackets.

As the competition is getting harder, the importance of "energy save" is increasing every passing day. Don't you wish to **maintain a constant saving** and make profit with a smart investment that pays for itself shortly?



By the way, if you mark your business with **A**, we can increase it up to **A+** :)

What is the **cost** of each un-insulated valve to you?

Each valve or steam trap with no insulation in your business, causes thermal loss as much **AS ITS SURFACE AREA**. But, what does that really mean? Let's explain it by an example.

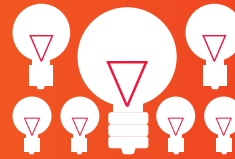
4" (DN 100)
globe valve



Fluid at
160 °C



Hourly
1.199 Watt

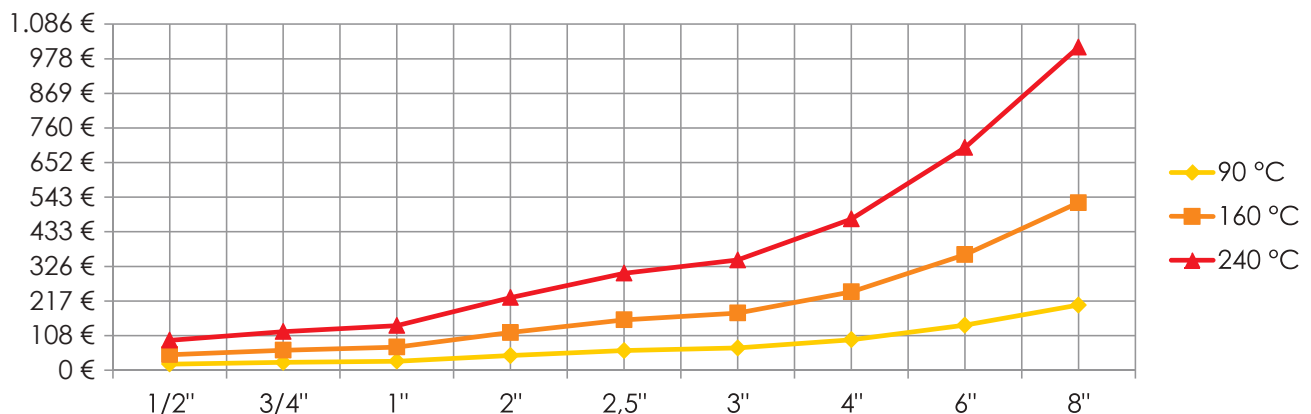


Annually loss
245 €



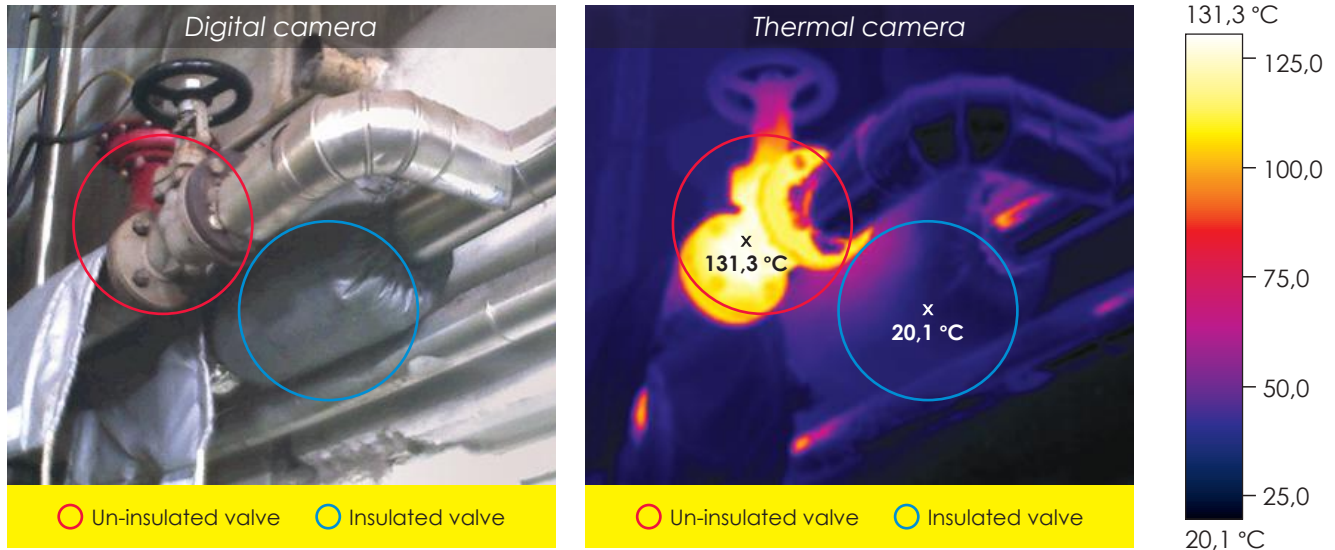
In case that an un-insulated globe valve (4", DN 100) is used in a fluid system at 160 °C; it causes 1.199 watt energy loss hourly, this is equal to 629 m³ natural gas consumption and loss of 245 Euro annually.

ANNULAR COST OF THE ENERGY LOSS OF A GLOBE VALVE



Thermal camera images prove the difference!

The best way of discovering the thermal losses in your business is to use a thermal camera. We are aware of the **superior performance** of Ayvaz's valve and steam trap jackets and would like to share it with you.



save
up to **90%***

You can save up to 90%* thanks to the insulation performance of Ayvaz's valve and steam trap jackets. Your investment pays for itself very quickly and you'd **start making profit!**

* Calculations are done for globe valve (DN 150), fluid at 160 °C and Ayvaz's valve jacket with Cryogel insulation with 20 mm thickness.

Would you like to take a look at the features

Insulation



Ayvaz's valve and steam trap jackets are designed to minimise the energy losses.

Aspen aerogels hydrophobic insulation materials with low thermal conductivity are used in our jacket designs.

Cryogel X201 is used for the applications between 0 °C and 200 °C and Pyrogel XT is used between, 200 °C - 650 °C.



Pyrogel XT (200 °C - 650 °C)

Specially formulated for high-temperature applications



- Pyrogel XT is used for **extremely high temperature** applications up to 650 °C. Pyrogel XT is the most effective high-temperature insulation material in the industrial market.
- Pyrogel XT is especially preferred for the valve and steam trap jackets that are used for the systems where the temperature is above 200 °C.

Physical Properties		
Feature	Value	
Thickness	5 mm	10 mm
Operating Temperature Range	-40 °C / +650 °C	
Thermal Conductivity Value At 37.5 °C / ASTM C 177	0.021 W/mK	
Density	0,18 g/cm ³	
Hydrophobia	Yes	

Application Areas

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

Scan the barcode!



Cryogel X201 (Up to 200 °C)

Ultimate solution for the temperatures, up to 200°C



- Cryogel X201's unique properties; low thermal conductivity, superior flexibility, compression resistance, hydrophobicity, make it essential for those seeking the ultimate in thermal protection the applications up to 200 °C.
- Cryogel X201 is used at Ayvaz's valve and steam trap jackets that are used for the temperature is below 200 °C

Physical Properties		
Feature	Value	
Thickness	5 mm	10 mm
Operating Temperature Range	-270 °C / +200 °C	
Thermal Conductivity Value At 37.5 °C / ASTM C 177	0.015 W/mK	
Density	0,13 g/cm ³	
Hydrophobia	Evet	

Application Areas

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

Scan the barcode!



The advantages of

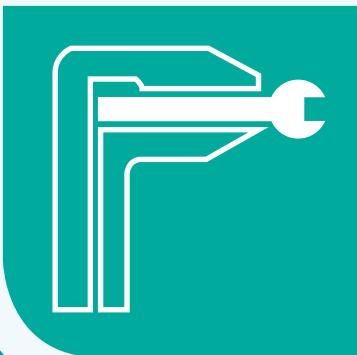
Ayvaz Valve Jackets over Other Valve Jackets made by

Classic Insulation Materials



High Thermal Benefit

Ayvaz's valve and steam trap jackets produced with hi-tech insulation materials with **low thermal conductivity** reduce the heat losses and provide high thermal and economic benefits.



Easy Installation

Aspen Aerogel's insulation materials (Pyrogel XT, Cryogel X201) are typically **2-4 times thinner** than other widely used insulation products.

That provides more compact designs to our valve jackets and makes the installation easier.



Physically Robust

Despite of their soft and flexible structures, Ayvaz's valve and steam trap jackets recover their thermal performance even after extremely high compression events with their **excellent spring back features**. High water resistance of the jackets offer a level of protection against damp.



Size

Reduced material volume, high packing density and low scrap rates can reduce the jacket sizes with a factor of 3 or more compared to the other jackets made by classic insulation materials.



Long Life and Respect to the Nature

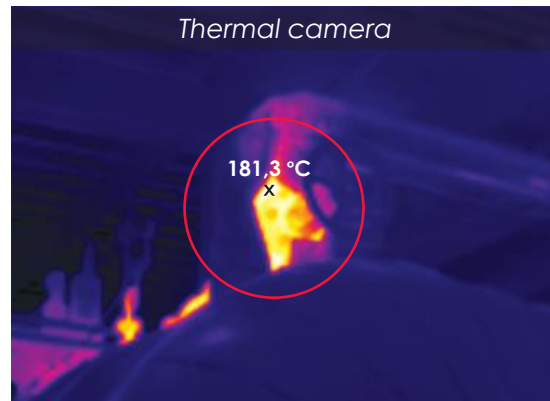
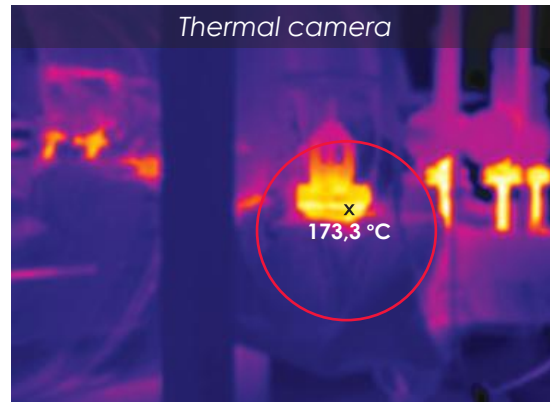
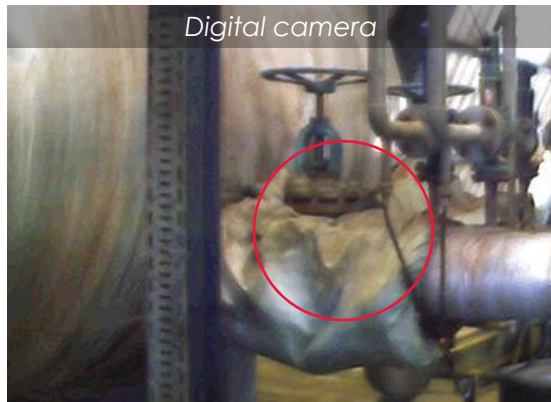
Aspen Aerogels insulation materials have **high tensile and compressive strength**.

Jackets can be applied and removed over and over again with no deformation for a long time. Landfill disposable, shot free, with no respirable fibre content.

Thermal Camera Images **Show The Truth!**

Rock wool jackets are easily affected from the moisture and mechanical compulsions that drop their performances down. However, **Ayvaz's Valve and Steam Trap Jackets** always keep their high performance!

You're not saving as much as you think by rock wool jackets. **Here is the proof!**



Thinner and stronger than rock wool!

Ayvaz's valve and steam trap jackets offers high performance with an ultra-thin structure. High-tech jackets could be three times thinner especially for the small sized products.

SIZE COMPARISON OF VALVE JACKETS FOR 1" BALL VALVE (ACTUAL SCALE)



**THINNER
STRONGER**
LONGER SERVICE LIFE

A thinner jacket enables you to assembly at very narrow and limited spaces. That **saves on time and labouring** during installation and maintenance. That is because, our jackets are **highly resistant against physical deformations**, and they keep their superior performance after many times of disassembly and re-assembly.

We have jackets for **all of your products!**

We deal with manufacturing insulation jackets for **all types of valves, steam traps, check valves, strain-ers and expansion joints** at all sizes. Whatever the size and working conditions of your products, we offer you the most appropriate solutions.



SALE
ON ALL
INSULATION JACKETS

Order your insula-
tion jackets while
ordering valve and
steam traps with
the equal quantity,
**and get your
special discount!**



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