

# COMPANY PROFILE

**PT KenzioTech Insan Mandiri**

*General Trading And Industrial Supply of Professional Tools*



## OUR CUSTOMER

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## VISI

To be a leading Indonesian company, leading and leading in the field of General Trading and mechanical industrial supply

## MISI

Providing the best services in a professional, systematic and integrated technology

- Increasing competent human resources
- improve the implementation of compliance and good corporate governance in accordance with applicable international standards.
- Improving safety, occupational health, and environmental protection for every employee.
- Provide benefits for all Stakeholders.

## KenzioTech Insan Mandiri, PT

KenzioTech Insan Mandiri was officially established in 2017. Our company is a company engaged in General Trading and industrial supply of professional tools (Construction Tools/ mechanical/ electrical/ engineering/ electrical & machinery). We are experienced and competent in their field, also supported by professional human resources in providing the best service to ensure the satisfaction of our clients.

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## FILTER

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### Bag Filter

Filter bag is the key part for bag filter operation process, normally the cylinder shaped bags are vertically hanging inside of bag filter. For impulse bag filter, dust is attached to outside surface of bag, when the dusty gas go through bag filter, dust is collected and gathered on the outer surface of bag, and clean air goes through bag and exhaust open air. The bag cage is inside bag for supporting. It can prevent bag fall down. And it can also use to clean dust cake and re-distribution.

KIMFIL Filter bags are made with needle felt offer solid performance to your filtration system. We provide tailored filter bags in different dimensions and designs, either with welded or stitched seams, or in strict accordance to your drawings/ samples



#### FILTER BAG MODEL

Filter bag product with customize dimension and model related your requirement.

#### CUFF Standard Construction



**SNAP RING**



**DOUBLE SEALING FELT**



**SINGLE SEALING FELT**



**STEEL RING/ CORD**



**FLANGE**

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## FILTER

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### SHAPE Standard Construction



TUBULAR (CAGE SUPPORT)



OVAL (CAGE SUPPORT)



ENVELOPE (CAGE SUPPORT)



RING TYPE (RING SUPPORT)

### SEAM & BOTTOM Standard Construction



TRIPLE SEAM



THERMAL WELDED



SINGLE/ DISC BOTTOM



REINFORCED BOTTOM

### FELT Characteristic

Bag filter material selection should be based on the characteristics of the media and application. Specification of material treatment with water repellent or antistatic carbon/ fiber

FIBER TYPE'S	CONTINUOUS TEMP. (deg°C)	RESISTANCE TO			
		HYDROLYSIS	ACID	ALKALI	OXIDATION
POLYESTER	130	RESTRICTED	MODERATE	RESTRICTED	RESTRICTED
POLYPROPYLENE	90	EXCELLENT	EXCELLENT	EXCELLENT	RESTRICTED
M-ARAMIDE	200	MODERATE	MODERATE	MODERATE	MODERATE
POLYPHENYLENESULFIDE	190	EXCELLENT	EXCELLENT	EXCELLENT	MODERATE
PTFE	250	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT

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## FILTER

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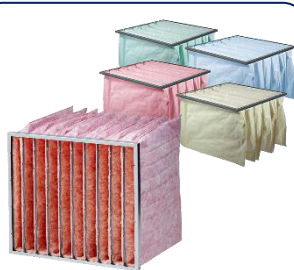
### Industrial Filter

In signal processing, a filter is a device or process that removes some unwanted components or features from a signal. Filtering is a class of signal processing, the defining feature of filters being the complete or partial suppression of some aspect of the signal.

KIMFIL Filter are available for all common cleaning systems and provided the dust collector is operated under optimal conditions, the filter media can achieve a long operational life with dust emission levels that are often far below the legally prescribed limits.



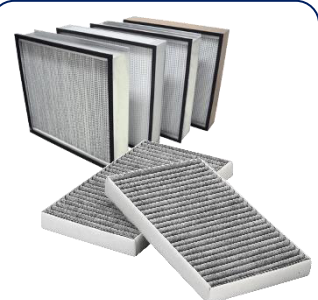
AIR SLIDE FILTER



POCKET FILTER SYNTHETIC MEDIA



MEDIA AIR FILTER



AHU FILTER



ELEMENT FILTER



CARTRIDGE WATER FILTER



OIL FILTER



STRAINER

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## GASKET

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### Spiral Wound Gasket

Spiral Wound Gasket are suitable for a wide range of operating conditions and can be adapted to suit almost all applications. The gasket can seal fluid pressures up to 250 bar and temperature range of -200c to in excess of 450c

#### 3 TYPES AVAILABLE

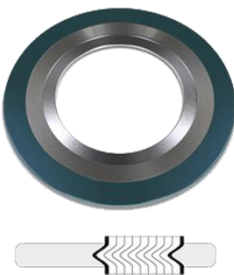
#### THICKNESS

All RS and RSI gaskets for standard flanges have a 4.5mm thick sealing section of windings and filler material, with 3.2mm thick solid metal guide rings.



#### STYLE RS

The standard gasket choice for RF and FF flanges, with the guide ring and sealing element made to ASME B16.20/DIN standards.



#### STYLE RSI

The standard RSI style with an extra inner ring fitted, providing an additional compression stop that protects the sealing element from heat and corrosion.

Inner rings are standard on all gaskets NPS24" class 900#, NPS12" and above in 1500#, and NPS4" and above in 2500#. All spiral wound gaskets with PTFE filler material have inner rings fitted.



#### STYLE S

Style S gaskets are a sealing element only with a few additional layers of winding strip for use in tongue and groove and male/female flanges. These gaskets are also available in oval, obround and diamond shape for valve bonnet and handhole applications.

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## GASKET

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### COLOR CODING AND ABBREVIATIONS FOR GASKET MATERIALS

MATERIAL	ABBREVIATION	COLOR CODE	MATERIAL	ABBREVIATION	COLOR CODE
METALLIC WINDING MATERIALS			METALLIC WINDING MATERIALS		
Carbon Steel	CRS	Silver	Inconel 600	INC 600	Gold
304 SS	304	Yellow	Inconel 625	INC 625	Gold
304 L SS	304L	No Color	Inconel 800	IN 800	White
309 SS	309	No Color	Inconel 825	IN 825	White
316 L SS	316L	Green			
347 SS	347	Blue			
321 SS	321	Turquoise			
Monel 400	MON	Orange			
Nickel 200	NI	Red			
Titanium	TI	Purple			
Hastelloy B	HAST B	Brown			
Hastelloy C	HAST C	Beige			

MATERIAL	ABBREVIATION	COLOR CODE
NON-METALIC FILLER MATERIALS		
Poly tetra fluoroethylene	PTFE	White stripe
Mica-graphite	Manufacturer's designation	Pink stripe
Flexible graphite	F.G	Gray stripe
Ceramic	CER	Light green stripe

SEATING STRESS RANGE				To ensure leak-proof connection		
FILTER	SINGLE-SIDE ENCLOSED			DOUBLE-SIDED ENCLOSED		
	SEATING STRESS (20 C)			SEATING STRESS (20 C)		
	MIN [N/mm <sup>2</sup> ]	OPT [N/mm <sup>2</sup> ]	MAX [N/mm <sup>2</sup> ]	MIN [N/mm <sup>2</sup> ]	OPT [N/mm <sup>2</sup> ]	MAX [N/mm <sup>2</sup> ]
Graphite	50	90	180	50	122	300
PTFE	50	80	130	50	110	250

**GUIDE RING:** Guide Rings are normally carbon steel ASTM A-285-82 GR-C or stainless steel 316  
Inner ring material usually matches the winding metal

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# GASKET

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## FILLER MATERIAL SELECTION

FILTER	TEMPERATURE [ C ]		MAX. OPERATING PRESSURE [BAR]	GAS TIGHTNESS	APPLICATION
	MIN	MAX			
Graphite	-200	250	500	Good	Aggressive media
PTFE	-200	240	100	Good	Aggressive media

## MATERIAL CHART

\*10mm steel ball indenter with 3000kg load

MATERIAL	DIN	DIN	AISI	B.S	HARDNESS	TEMP. [C]		VOLUMETRIC
(TRADE NAME)	SPECIFICATION	MATERIAL NR.	UNS	ASTM	HV 10*	MIN.	MAX	MASS [G/CM³]
Soft Iron (Armco)	-	11.003	-	-	90-100	-60	500	7.85
Steel (LCS)	RSt.37.2	10.038	-	-	100-130	-40	500	7.85
Stainless Steel 304	X5CrNi 18	14.301	304	304S15/16/31	130-180	-250	550	7.9
Stainless Steel 304L	X2CrNi 189	14.306	304L	304S11	130-190	-250	550	7.9
Stainless Steel 309	X15CrNiMo 2012	14.828	309	309S24	130-190	-100	1000	7.9
Stainless Steel 316	X5CrNiMo 1810	14.401	316	316S31/33	130-180	-100	550	7.9
Stainless Steel 316L	X2CrNiMo 1810	14.404	316L	316S31/13	130-190	-100	550	7.9
Stainless Steel 316Ti	X10CrNiMoTi 1810	14.571	316Ti	320S31	130-190	-100	550	7.8
Stainless Steel 321	X10CrNiTi 189	14.541	321	321S12/49/87	130-190	-250	550	7.9
Stainless Steel 347	X10CrNiNb 189	1.455	347	347S31	130-190	-250	550	7.9
Nickel 200	Ni 99.2	24.066	N02200	3072-76 NA11	90-120	-250	600	8.9
Monel 400	NiCu 30 Fe	2.436	N04400	3072-76 NA13	110-150	-125	600	8.8
Inconel 600	NiCr 15 Fe	24.816	N06600	3072-76 NA14	120-180	-100	950	8.4
Inconel 800	X10NiCrAlTi 3220	14.876	N08800	3072-76 NA15	140-220	-100	850	8.4
Incoloy 825	NiCr 21 Mo	24.858	N08825	3072-76 NA16	120-180	-100	450	8.14
Hastelloy B2	Nmo 28	24.617	N10665	-	170-230	-200	450	9.2
Hastelloy C276	NiMo 16Cr 15W	24.819	N10276	-	170-230	-200	450	8.9
Titanium	Ti 99.8	37.025	-	-	110-140	-250	500	4.5

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## GASKET

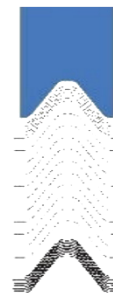
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### STYLE RS & RSI FOR ASME/ANSI B16.50/BS1560 FLANGES

NOMINAL SIZE		A	B	C	OUTSIDE DIAMETER				
NPS	DN	Standard ID	GLS ID	NPS ID	Class 150	Class 300	Class 400	Class 600	Class 900
1/2	15	21	18	13	48	54	54	54	64
3/4	20	27	25	19	57	67	67	67	70
1	25	33	31	25	67	73	73	73	79
1.1/4	32	42	38	32	76	83	83	83	89
1.1/2	40	48	46	38	86	95	95	95	98
2	50	60	57	51	105	111	111	111	143
2.1/2	65	73	70	64	124	130	130	130	165
3	80	89	85	76	137	149	149	149	168
3.1/2	90	102	-	89	162	165	162	162	-
4	100	114	110	102	175	181	178	194	206
5	125	141	133	127	197	216	213	241	248
6	150	168	159	152	222	251	248	267	289
8	200	219	210	203	279	308	305	321	359
10	250	273	265	254	340	362	359	400	435
12	300	324	315	305	410	422	419	457	498
14	350	356	345	N/A*	451	486	483	492	521
16	400	406	390	N/A*	514	540	537	565	575
18	450	457	445	N/A*	549	597	594	613	638
20	500	508	495	N/A*	606	654	648	683	699
24	600	610	595	N/A*	718	775	768	791	838
26	650	660	-	N/A*	775	835	832	867	-
28	700	711	-	N/A*	832	899	892	914	-
30	750	762	-	N/A*	883	953	946	972	-
32	800	813	-	N/A*	940	1006	1003	1022	-

### GASKET THICKNESS

Sealing Element : 175"/4.5mm  
Guide in Inner Ring : 125"(1/8) / 3.2mm



RS



RSI

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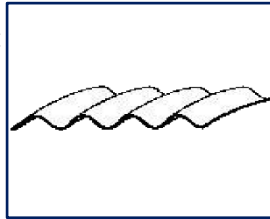
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## Metal-Clad Gasket

### GASKET STYLE

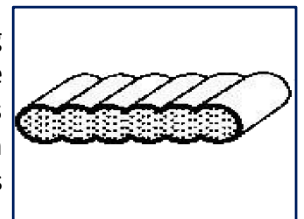
#### Corrugated Solid Metal

A plain, all-metal corrugated gasket for use in applications where facing materials are not acceptable



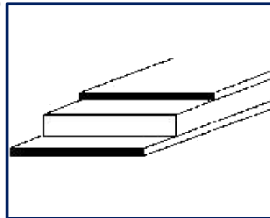
#### Double-Jacketed Corrugated

Concentric corrugated sealing element totally encapsulates the soft filler material. The corrugations give improved resilience in applications where thermocycling is a problem.



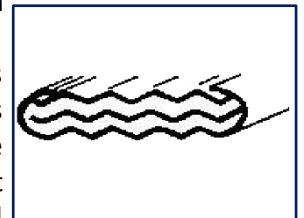
#### Solid Metal with Facing Graphite Covering

A solid metal gasket covered with a layer of soft facing material. This covering layer seals at a low load and fills voids and imperfections in



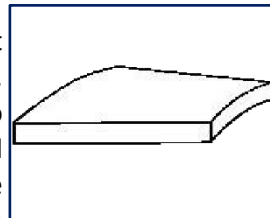
#### Double-Jacketed Corrugated with Corrugated Metal Filler

The metal filler in Style 629 has greater resilience to problems resulting from thermocycling. The temperature limits of this gasket are governed only by the metal selected



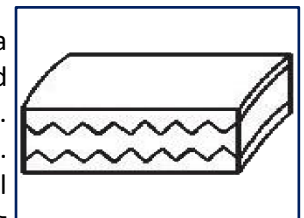
#### Solid Metal

This gasket offers extremely tight sealing, high mechanical strength, and good resistance to temperature, corrosion and pressure. Bolting stress and flange surface finish are key to the performance of this design



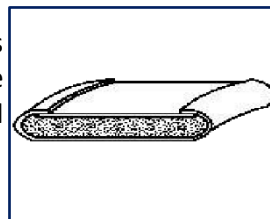
#### KAMMPROFILE with facing

Ideal for weaker flanges needing a seal under low stress. The solid metal arc resists cold flow, overcompression and blow out. This Style capability allows it to seal under compressions, filling seating surface imperfections to form a tight connection.



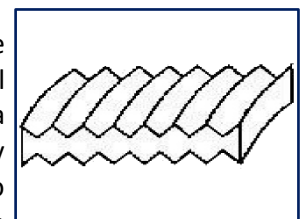
#### Double-Jacketed

The double-jacketed gasket has good compressibility and resilience and is the most popular metal-clad gasket manufactured



#### Solid Metal KAMMPROFILE

Profile gaskets combine the desirable qualities of a solid metal gasket with the advantages of a reduced area of contact, thereby reducing the bolt stress required to effect a seal. This gasket has the same advantages of strength, heat conductivity, and resistance to temperature, pressure and corrosion.



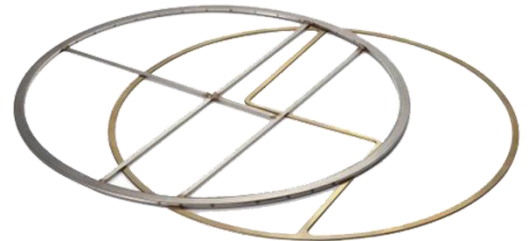
# GASKET

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## Exchanger and Vessel

Manufactures a wide variety of solid metal, metal clad, and metal core gaskets. Among the most requested styles are double-jacketed gaskets. Kammprofile, corrugated gaskets, and solid metal gaskets, all available in a choice of metals and filler materials.

Custom configurations of heat exchanger gaskets are also available. Spiral windings can be designed with or without partitions welded to the winding, or inner and outer rings with welded partitions.

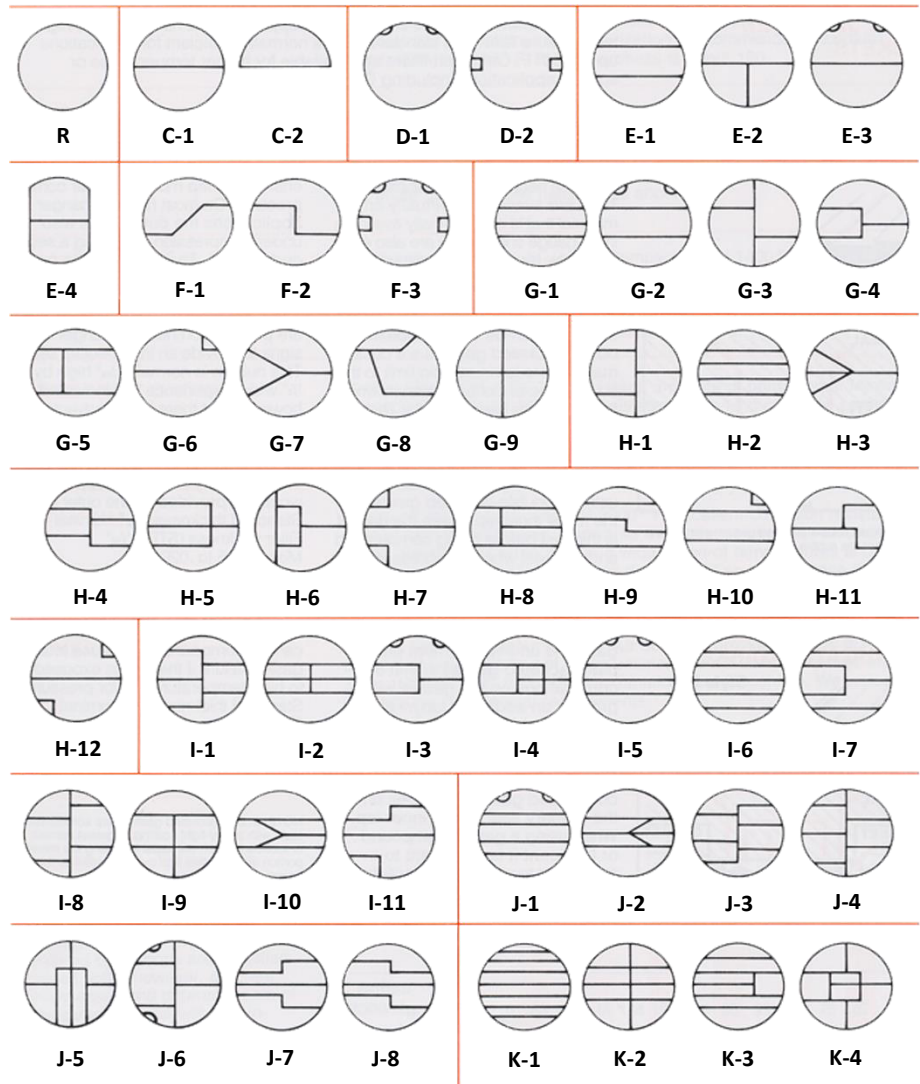


**HEAT EXCHANGER GASKET CONFIGURATIONS**

### TOLERANCES

Gasket Outside Diameter	Inside Diameter Tolerance	Outside Diameter Tolerance
Up to 36*	+1/16* /-0	+0/ -1/16*
36* and above	+1/8* /-0	+0/ -1/8*

Thickness:  $\pm 1/32^*$       Radii :  $\pm 1/16^*$   
Rib Width:  $\pm 1/64^*$       Rib Location:  $\pm 1/16^*$



### GASKET WIDTHS

Gasket Diameter	Min. Width (Gasket & Ribs)	Maximum Width
Up to 12*	3/16*	-
Over 12*	1/4	-

\* **NOTE:** There is no maximum width for heat exchanger gaskets.

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## GASKET

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We provide various kinds of gaskets, other types and sizes on request.



**SPIRAL WOUND GASKET**



**RING TYPE JOINT R  
OCTAGONAL**



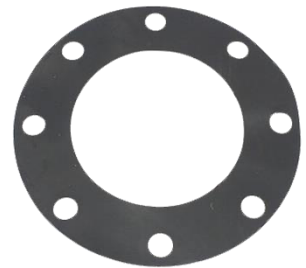
**RING TYPE JOINT RX**



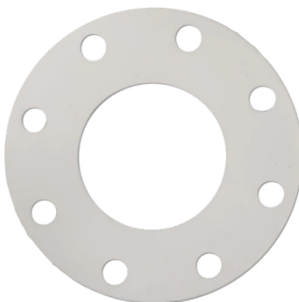
**RING TYPE JOINT BX**



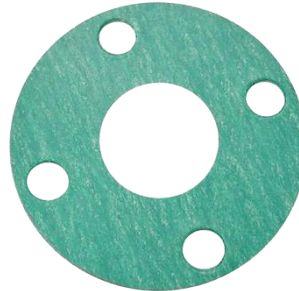
**RING TYPE JOINT R  
OVAL**



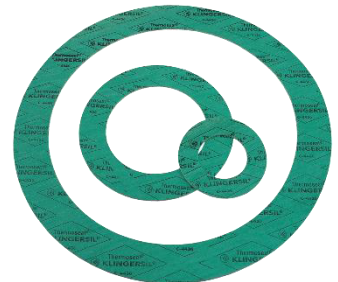
**RUBBER GASKET**



**PTFE GASKET**



**ASBESTOS FIBER GASKET**



**NON-ASBESTOS GASKET**

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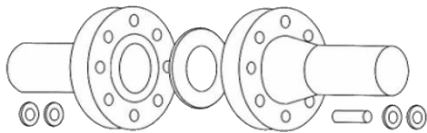
# GASKET

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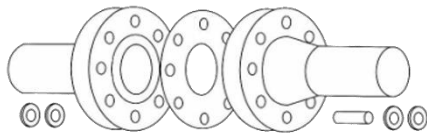
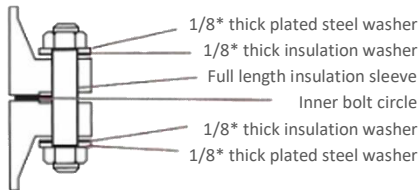
## Insulation Kit Gasket

The Flange Insulation Gasket set is the most widely used form of controlling losses due to corrosion. Flange Insulation Gasket sets can be used to control stray electric currents in piping at oil, gas, water, refinery, and chemical plants to increase the effectiveness of cathodic protection systems and confine or eliminate electrolytic corrosion.

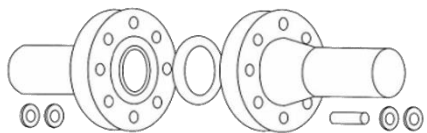
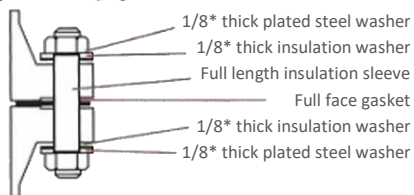
### STANDARD STYLES OF INSULATION SETS



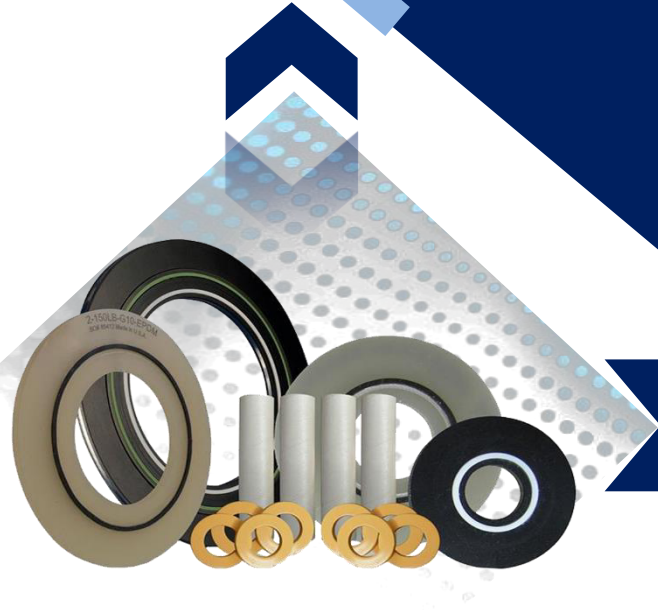
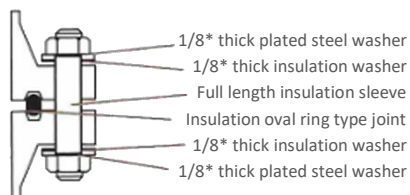
#### Raised Face Type



#### Full Face Type



#### R.T.J Type



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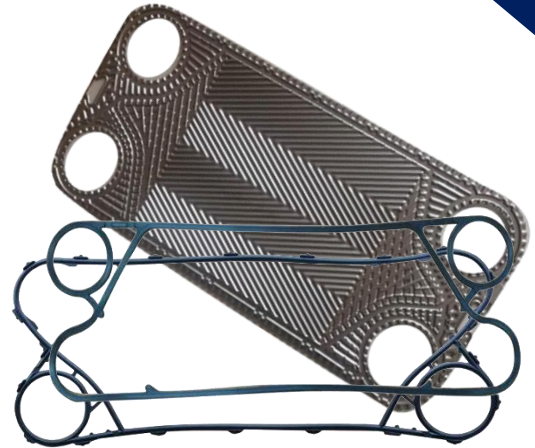
## GASKET

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### PHE Gasket

Kenziotech provides gaskets used in PHE with various types and sizes according to the needs of users and industry. The materials used can also be modified according to the needs of the users because the media flowing in the PHE is very varied.

Heat exchanger gaskets are divided into various materials according to the fluid medium. The most commonly used are EPDM and NBR. Both types of gasket materials are good in water and oil resistance. High temperature can reach 120°-150°.



### Klinger Sheet

Klingsil C-4430 is a high performance grade gasket material of versatile gasket fiber widely used in industrial and sealing applications. This compressed non-asbestos fiber gasket exhibits excellent retention for long lasting seal performance.

Klingsil C-4430 is available in a wide selection of thicknesses ranging from 0.5mm to 3mm and sheets measuring 1500mm x 2000mm, the gasket sheet is made of a combination of synthetic fibers and glass bonded with an NBR (nitrile-butadiene rubber) binder. This is then finished with a non-stick coating. The result is a versatile gasket sheet with excellent chemical resistance, temperature tolerance and pressure resistance.



Usage Guide:

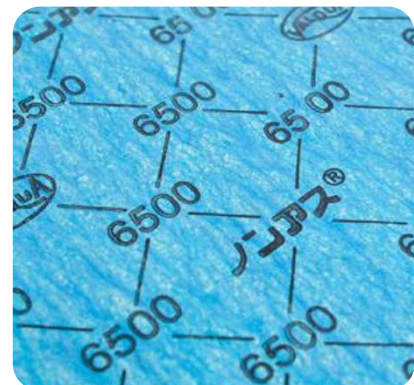
Max. Temperature: 440 c

Max. Pressure: 100 bar

### Sheet ValQuA 6500

Suitable to be used as Non-asbestos gaskets for pipe flanges and equipment in various industries. The adaptability of these sheets as water apparatus according to JIS S 3200-7 has been confirmed.

Pipe flanges, valve bonnets and other equipment used in various industries including oil refineries, chemical industries and shipyards.



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**GASKET**

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**Sheet ValQuA GF300**

These gaskets have excellent chemical resistance, heat resistance, are easy to handle and do not harden easily because these gaskets use PTFE as binders. GF300 can be used for high temperature applications (heat resisting at 300° C). The gaskets do not contain any rubber, and retightening is possible since deterioration with age and hardening does not occur.

The use of flexible resin binders results in improved properties against brittleness and damages compared to expanded graphite sheet gaskets.

**Dimension :**

Width × Length (mm):

1270 × 1270 (t1.0, t1.5)

1500 × 1500 (t2.0, t3.0)

Color type: black

Print color: black

**Design Data****Recommended tightening stress**

Tightening stress is defined as the pressure required under standard conditions without consideration to the opening force due to internal fluid.

Fluid	Recommended tightening stress (MPa)
Liquid	25.5
Gas	35.0

**Available ranges**

Temperature and pressure classifications show individual service limits.

Temperature (°C)	Pressure (MPa)
-200~300	3.5

**m,y values**

The m, y values for Compressed Fiber Sheets defined in Appendix G of JIS B 8265 can be applied to the m, y values of High Performance Non-Asbestos Sheets.

Thickness (mm)	Gasket factor “m”	Minimum design seating stress “y”(N/mm <sup>2</sup> )
3.0	2.00	11.0
1.5	2.75	25.5
1.0	3.50	44.8

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## GLAND PACKING

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Gland packing is widely used to seal and limit leakage along stems in valves and shafts in the case of pumps as well as for stationary tasks such as sealing manhole covers, etc. Gland packing is also used to reduce leakage of working fluid in rotating pump



### Pump Packing

Pump packing is used for high shaft speeds. Pump packing contains specially formulated lubricants to aid equipment start up and ensure packing pliability for a longer life.



**KIM200**

100% ParaAramid continuous fibre with PTFE impregnation and a silicon based inert 'run-in' lubricant



**KIM274**

Combination braid made of ePTFE / Graphite and ParaAramid fibre with 'run-in' lubricant.



**KIM270**

Combination braid made of ePTFE / Graphite and ParaAramid fibre with 'run-in' lubricant.



**KIM290**

Synthetic fibre with PTFE impregnation and silicon free dynamic 'run-in' lubricant.



**KIM299**

Polyimide Fiber with PTFE Impregnation and Silicone Run In Lubricant.



**KIM325**

Carbon fibre with special graphite impregnation and silicone free 'run-in' lubricant.

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## GLAND PACKING

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**KIM330**

Highest grade carbon fibres impregnated with specially formulated dynamic silicon free



**KIM333**

Combination braid from carbon reinforced expanded graphite tape and carbon fibre, with 'run-in'



**KIM350**

Braid made of flexible expanded natural graphite foil.



**KIM351**

Braided from expanded graphite with integrated carbon reinforcement for easier handling.



**KIM550**

Synthetic fibre, PTFE impregnated with 'run-in' lubricant.



**KIM560C**

Synthetic fibre, PTFE impregnated with 'run-in' lubricant.



**KIM728**

Hybrid Braid with W-Profile made from heat conductive ePTFE / MetaAramid reinforcing fibre and 'run-in' lubricant



**KIM785**

Braided from 100% GORE® GFO® expanded PTFE-fibre with incorporated graphite and silicone 'run-in' lubricant.



**KIM789**

Hybrid braid with W-Profile made from ePTFE / Graphite, graphite fibre and 'run-in' lubricant

## GLAND PACKING

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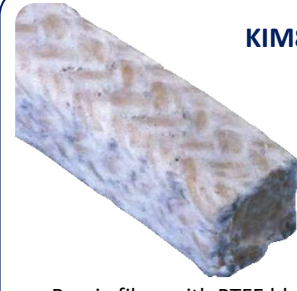
**KIM790**

PTFE-Graphite multifilament fibre with silicone free 'run-in' lubricant.



**KIM799**

Combination braid of ePTFE yarn with incorporated graphite and MetaAramid fibres and special pore-



**KIM870**

Ramie fibre with PTFE blocking agent and silicone free 'run-in' lubricant.



**KIM250TP**

Aramid staple fibre with PTFE-blocking agent and silicone free 'run-in' lubricant.



**KIM266TP**

Combination braid of ePTFE yarn with incorporated graphite and MetaAramid fibres and special pore-filling impregnation.



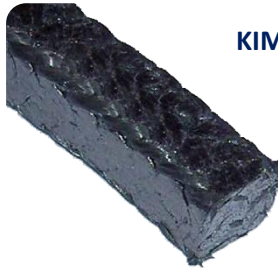
**KIM275TP**

Combination braid of ePTFE / Graphite and Para-Aramid fibre as corner reinforcement with special pore-filling impregnation.



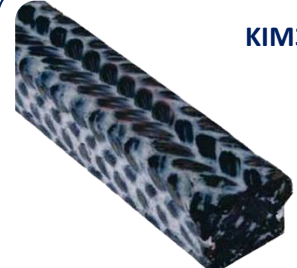
**KIM285TP**

MetaAramid fibre with PTFE blocking agent and 'run-in' lubricant.



**KIM366TP**

Braided from expanded graphite yarn with integrated carbon fibre reinforcement and carbon fibres as corner reinforcements.



**KIM380TP**

High purity carbon fibre with cross section impregnation and 'run-in' lubricant.



## GLAND PACKING

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**KIM745TP**

Combination braid of PTFE and PTFE fibre with incorporated heat conductive microparticles.



**KIM770TP**

Combination braid of ePTFE / Graphite and PTFE fibre with special pore-filling impregnation.



**KIM795TP**

Braided from 100% ePTFE / Graphite incorporated fibre with silicone 'run-in' lubricant.

## Valve Packing

Valve packing is generally used in high pressure applications. The packing contains no extractable materials such as oil and remains non-porous even under extreme temperatures. The construction has a fine surface texture making it pliable against the valve stem and is by design very extrusion resistant.



**KIM310**

Carbon-filament yarn with high temperature graphite impregnation.



**KIM337**

Braided from expanded graphite tape, with reinforcement and a special PTFE film coating



**KIM340**

Braid made of flexible expanded natural graphite foil with a 10 myh wire mesh reinforcement per braiding strand.



**KIM343**

Braided from specially formulated expanded graphite, reinforced with a proprietary inconel wire matrix and impregnated with a passive, inorganic corrosion inhibitor



**KIM355**

Braid made of flexible expanded natural graphite foil with an integrated inconel reinforcement per fibre strand.



**KIM375**

Highest grade graphite filament yarn with high temperature graphite impregnation.

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## GLAND PACKING

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**KIM730**

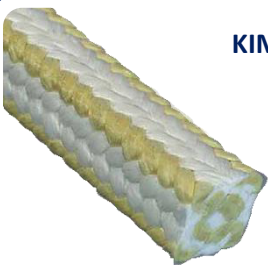


100% PTFE-fibre with special PTFE dispersion.

### Special Packing

The packing uses fibres and a braiding process specifically developed to suit the application. The formulation of the materials and lubricants is selected to suit the environment in which the packing is used.

**KIM260**



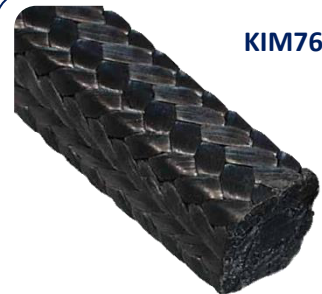
Combination-braid of PTFE-fibre with ParaAramid corner reinforcement and 'run-in' lubricant.

**KIM270**



PTFE-fibre with PTFE dispersion and silicone free 'run-in' lubricant.

**KIM760**



PTFE-fibre with incorporated graphite.

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## MECHANICAL SEAL

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Mechanical seals are critical components in centrifugal pump systems. These devices preserve the integrity of the pump systems by preventing fluid leaks and keeping contaminants out. Mechanical seal systems are used on various seal designs to detect leakage, control the seal environment and lubricate secondary seals.

Depending on the pump type and the process variables, there are various mechanical seal types to choose from. Each seal variant has its unique design and characteristics which make it suitable for a specific application.



Kenziotech provides various mechanical seals for your choice. All of them are made of CARBON/SIC/TC/EPDM/VITON, SS304 or SS316 etc materials which are environmentally friendly and of high quality. mechanical seals for many kinds of brand pumps, such as burgmann seals, john crane seals, flygt seals, aesseal seals, apv seals, cartridge mechanical seals. Our mechanical seals cover various kinds of industries such as food, gasoline chemicals, paper making, marine vessels and so on.

### Balanced Seal

Mechanical seal balance means the load that acts across the seal faces. It is critically important that the load is optimum between the seal faces. If it is exceptionally high, then the liquid film gets squeezed out. It vaporizes quickly and causes an unstable condition. Due to the thermo-elastic instability, there is high wear and tear of the sealing surfaces. Well-balanced seals avoid this situation and lead to reduce energy consumption and extend the life of the seal. The pressure in a stuffing box applies equally in all directions. It presses the primary ring against the mating ring. Since the force acts only on the diameter, it acts as a closing force on the seal face. When the pressure is high, it is lowered by reducing the diameter of the shoulder on the sleeve. It can be reduced by decreasing the seal hardware as well. Thus, the pressure can be brought to the optimum level again. The process is called seal balancing.



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## MECHANICAL SEAL

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### Unbalanced Seal

Unbalanced seal generates multiple times higher hydraulic closing force generated by the actual pressure that seals the two faces. Though they are more stable than the balanced ones, if the closing force on the seal faces crosses the pressure limits, then it wears out the lubricating film which squeezes out, and the dry seal fails due to heavy load. All unbalanced seals are without a shoulder.



### Pusher Seal

A pusher-type seal consists of a primary sealing ring assembled with an 'O' ring and springs (can be one or multiple). The purpose of this is to force the sealing fluid across the face and keep it from leaking to the ID (atmospheric) side of the seal. The dynamic 'O' ring is designed to move axially (be pushed) along the shaft or sleeve (in a cartridge seal). The surface underneath the dynamic 'O' ring must therefore be very smooth ( $< 32$  RMS) to allow for this axial movement (hang up)



### Non-Pusher Seal

A non-pusher type seal consists of a bellows assembly. The bellows is a component that acts as both the load element (like a spring in a pusher type) and a secondary sealing element like an 'O' ring in a pusher type). Because the bellows prevents any leakage to the atmospheric side of the seal, and has a large clearance between itself and the shaft or sleeve it can move freely in the axial direction (no dynamic 'O' ring), reducing the potential for hang up. Pusher type seals are used more commonly in low S.G. ( $< 0.7$ ) services.



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## MECHANICAL SEAL

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### Conventional Seal

These conventional seals are the lower cost seals of all and are often installed for general service equipment. Although this seal has a low cost, it must require high operator skills because it is installed for individual components.



### Cartridge Seal

Cartridge seal is an arrangement of seal components on the shaft sleeve and in the seal gland which is a single unit which is usually assembled and pre-arranged. Both bellows and spring type seals can be adjusted with the cartridge if the pump fill box is large enough. Cartridge seals serve to eliminate a common cause of seal failure from installation errors, and since the seal is served on the shaft sleeve itself, any damage that may be caused by conventional seals on pump units is eliminated.



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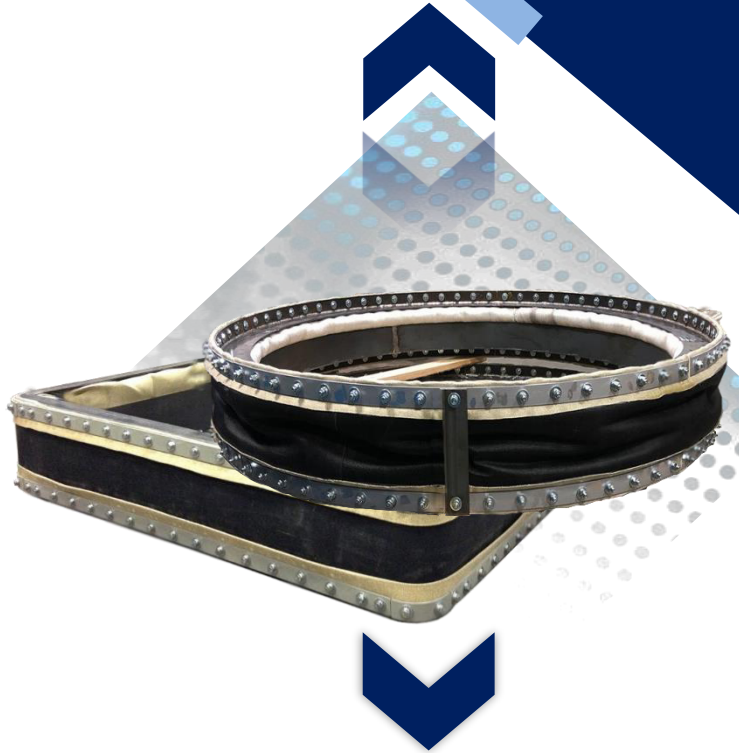
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## EXPANSION JOINT FABRIC

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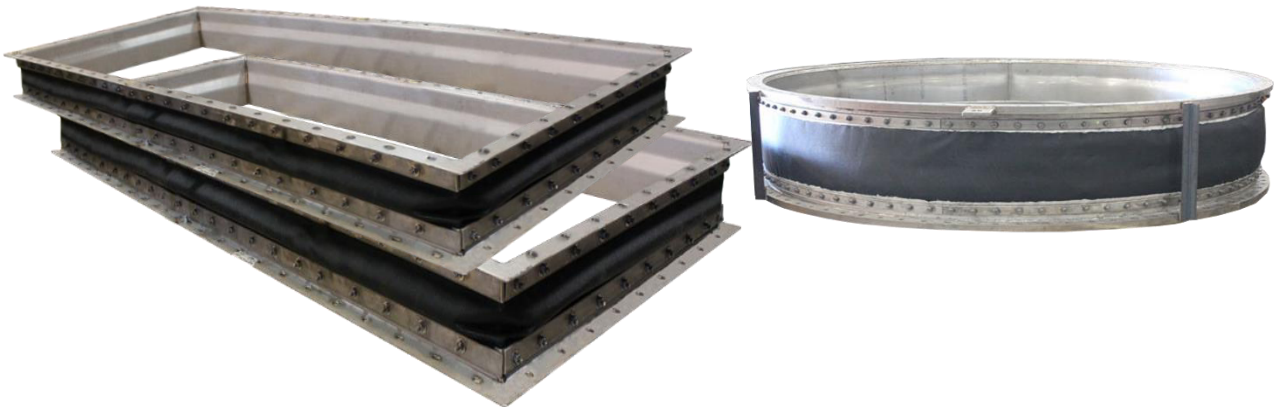
### EJF

Expansion joints are flexible pipelines and channel joints used in industrial installations. When ventilation system or air conditioner system works, it generate noise and vibrations, they transmit through air ducts, affect the operation of system. To eliminate the noise and vibrations, it is necessary to install an expansion joints at the connect place of equipment and ducts. It ensure an appropriate compensation of thermal and mechanical dilatations of the fumes channels, hot air pipelines and other media. KenzioTech provide variety of high temperature textiles not contain any asbestos and can withstand high temperature up to 1000°C, oil resistance, high strength.



Fabric Expansion Joint can be designed with belt type flange type and telescopic bellows type. Fabric expansion Joint can make single or multilayer, depend on customer request. Fabric Expansion Joint is available in both rectangular and round with large size

Fabric Expansion Joint can be designed with belt type flange type and telescopic bellows type. Fabric expansion Joint can make single or multilayer, depend on customer request. Fabric Expansion Joint is available in both rectangular and round with large size. This type of expansion joint consists of various layers of materials which are usually bonded, knitted, sewn or bolted together in the clamped flange area. Composite belts include gas seal membrane, insulating layer, retaining layer, wire mesh, coated fabric reinforcing plies and other layers or barriers. Composite belts are manufactured in either Belt type or Integrally Flanged type. Maximum operating temperature to 1300°C.



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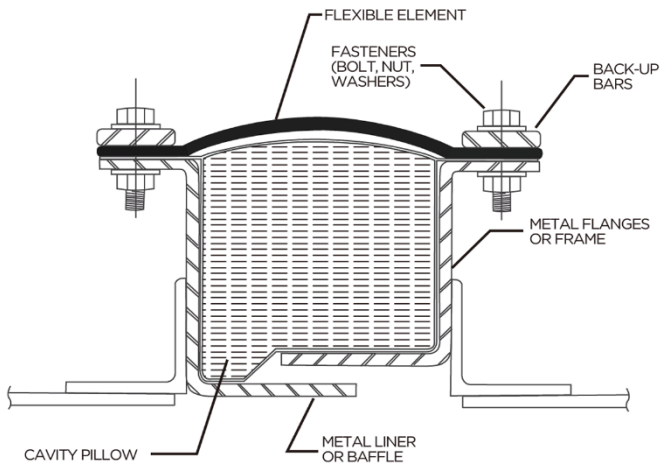


## EXPANSION JOINT FABRIC

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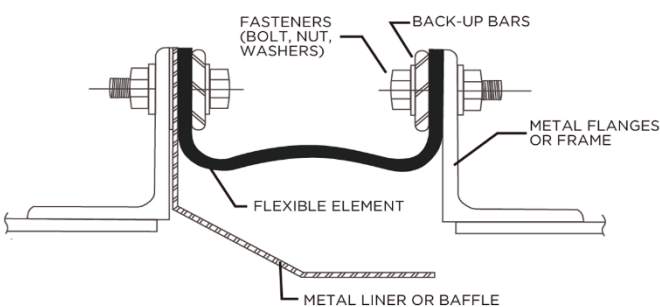
### Belt Type

The fabric belt is attached to the frame using a clamping system. The clamping system has the distinct advantage of sealing belt material in a line two to places across the frame flange.



### Integrally Flanged Type

Same as belt type, layer of Expansion Joint fitted directly to flange of ducting. Used pillow are base on service



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## EXPANSION JOINT METAL

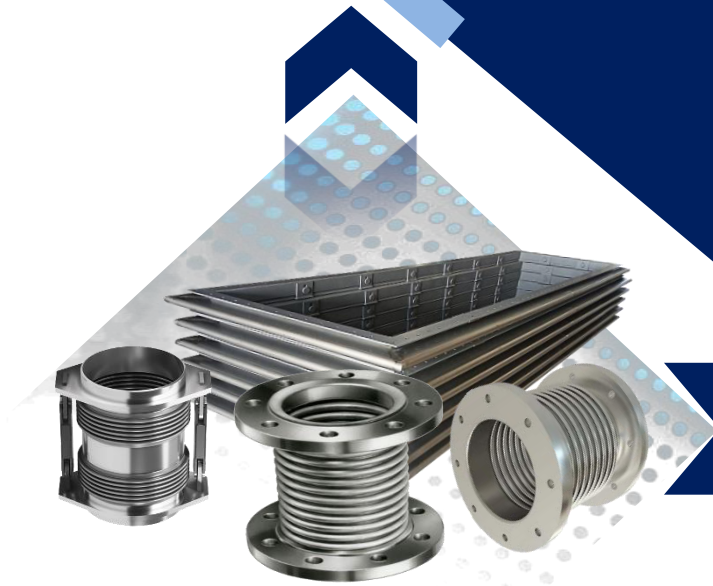
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### Expansion Joint Bellows

Metallic Expansion Joints are installed in pipe work and duct systems to prevent damage caused by thermal growth, vibration, pressure thrust and other mechanical forces.

There is a wide range of metallic bellows designs in a variety of materials. Options range from the simplest convoluted bellows used in petroleum refineries.

Materials include all types of stainless steels and high grade nickel alloy steels.



Expansion joints are used in piping systems to absorb thermal expansion or terminal movement where the use of expansion loops is undesirable or impractical. Kenziotech Provides Expansion joints in various shapes and materials.



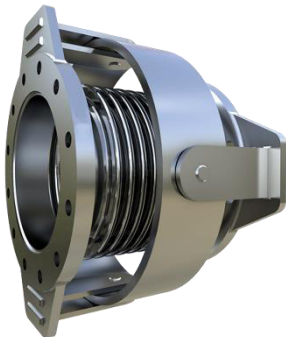
**CLAMP SHELL BELLOWS**



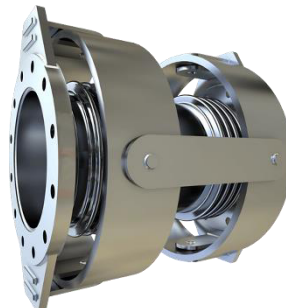
**AXIAL EXPANSION JOINT**



**UNIVERSAL EXPANSION JOINT**



**GIMBAL TYPE**



**DOUBLE GIMBAL TYPE**



**HINGED WELD**

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## EXPANSION JOINT METAL

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**HINGED FLANGES**



**DOUBLE HINGED FLANGES**



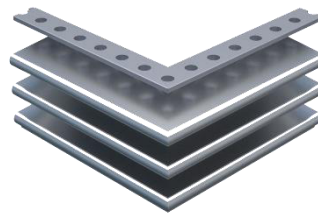
**DOUBLE HINGED WELD**

Rectangular expansion joints absorb all of the movements in any one length of piping, but they are mainly used to absorb axial movements. Rectangular expansion joints do not restrain pressure thrust so adequate anchors and guides must be provided.

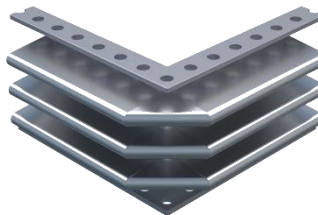
Rectangular expansion joints are with U&V shaped convolutions and available with different corner configuration i.e., rounded, double miter and miter. The “V” convolution profile will be supplied with single miter corners, unless otherwise specified. Round corner bellows will always be constructed using the “U” convolution profile.

These expansion joints can be manufactured with one or more convolutions and with limitless dimensions.

KenzioTech can supply rectangular expansion joints based on specific requirements or customer designed.



**SINGLE MITER TYPE**



**DOUBLE MITER TYPE**



**ROUNDED CORNERS TYPE**



**CAMERA CORNERS TYPE**

## EXPANSION JOINT RUBBER

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Rubber expansion joints provide a wide range of rubber support with a reinforcement that depends on the pressure required. These types of expansion joints isolate noise and vibration. When it comes to damage caused by vibration and movement, each rubber expansion joint protects piping systems by avoiding such hazards.

Our wide range of rubber expansion joints (20 types) in 8 different rubber qualities and various reinforcements allow a tailor-made solution to be found for every application.

We carry a large permanent stock of rubber expansion joints from DN 20 to 1000 / ¾" til 40" to always ensure fast delivery.



### Single Sphere Type

These are the standard moulded or custom made Expansion Joints consisting of high quality rubber body incorporating floating flanges.

Rubber bellows: Reinforced EPDM, EPDM HT, Nitrile, Spec. Nitrile, Nitrile white, Hypalon, SBR, Viton®, Chloroprene, etc.

Flanges: Zinc plated carbon steel as standard. Also, available in hot dip galvanized carbon steel, stainless steel, etc. drilled to EN and ANSI standards. On request, flanges are also available drilled to JIS and AWWA standards.

For vacuum applications, an internal stainless steel vacuum ring is incorporated.

Standard moulded construction from DN 32 to DN 1000 (see table for standard dimensions). Larger sizes can be supplied custom made up to DN2000.



#### ANSI Standard Rubber Expansion Joints

Size	: DN32-DN1000
Pressure	: 0.6-2.5bar
Body	: EPDM
Flanges	: CS,SS,DI
Product description	: These are the standard moulded or custom made Expansion Joints consisting of high quality rubber body incorporating floating flanges.

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## EXPANSION JOINT RUBBER

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Dimensions of standard moulded rubber expansion joints  
Specific dimensions can be provided custom made.

DN	Length (mm)	Compression (mm)	Extension (mm)	Lateral (mm)	Angular (deg)	Working Press (bar)
32	130 & 150	30	20	20	30	16
40	130 & 150	30	20	20	30	16
50	130 & 150	30	20	20	30	16
65	130 & 150	30	20	20	30	16
80	130 & 150	30	20	20	30	16
100	130 & 150	30	20	20	25	16
125	130 & 150	30	20	20	25	16
150	130 & 150	30	20	20	15	16
200	130 & 200	30	20	20	15	16
250	130 & 200	30	20	20	10	16
300	130 & 200	30	20	20	10	16
350	200	30	20	20	10	10
400	200	30	20	20	10	10
450	200	30	20	20	10	10
500	200	30	20	20	10	10
600	200	30	20	20	6	10
700	275	40	25	30	5	10
800	275	40	25	30	4	10
900	300	40	25	30	3	10
1000	300	40	25	30	3	10

## EXPANSION JOINT RUBBER

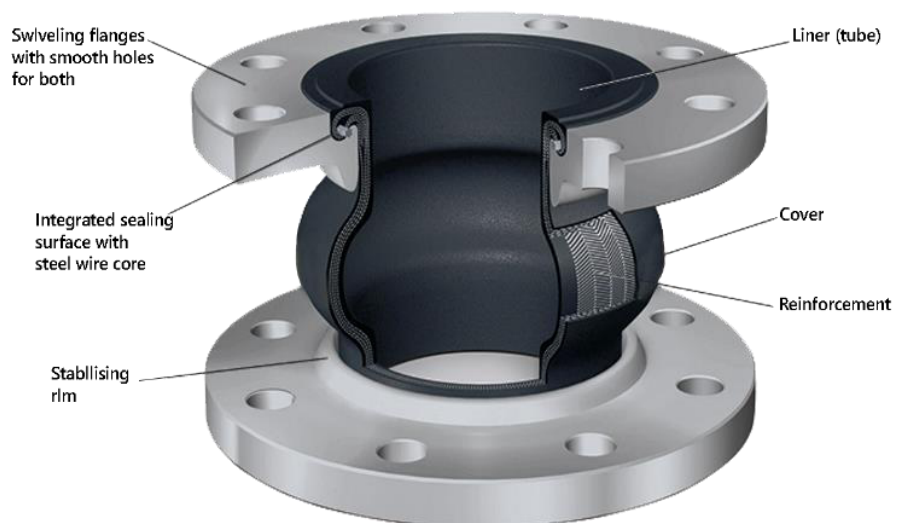
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### DIN Standard Single Sphere Rubber Expansion Joint

Size : DN32-DN2000  
Pressure : 0.6-2.5MPa  
Body : EPDM  
Flanges : Carbon Steel, Stainless Steel, Cast Iron

No.	Part	Material
1	Body	NR,CR,IIR, NBR,FKM,EPDM
2	Inner & Outer Rubber	NR,CR,IIR, NBR,FKM,EPDM,PTFE
3	Body Carcass	Nylon cord fabric
4	Reinforcing Ring	Multi-strand coppering steel wire
5	Flange	Cast Iron,Carbon Steel (Zinc coated or painting), Stainless Steel(304、316、321)



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# EXPANSION JOINT RUBBER

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DN		Length	Axial displacement (mm)		Haorizantal isplacement (mm)	Angular deflection(a1+a2) °
Mm	Inch	Mm	Extension	Compression		
32	1.1/4	95	6	9	9	15
40	1.1/2	95	6	10	9	15
50	2	105	7	10	10	15
65	2.1/2	115	7	13	11	15
80	3	135	8	15	12	15
100	4	150	10	19	13	15
125	5	165	12	19	13	15
150	6	180	12	20	14	15
175	7	200	12	20	14	15
200	8	200	16	25	22	15
225	9	200	16	25	22	15
250	10	230	16	25	22	15
300	12	245	16	25	22	15
350	14	255	16	25	22	15
400	16	255	16	25	22	15
450	18	255	16	25	22	15
500	20	255	16	25	22	15
550	22	255	16	25	22	15
600	24	260	16	25	22	15
700	28	260	16	25	22	15
800	32	260	16	25	22	15
900	36	260	16	25	22	15
1000	40	260	18	26	24	15
1200	48	260	18	26	24	15
1400	56	350	20	28	26	15
1600	64	350	25	35	30	10
1800	72	350	25	35	30	10
2000	80	350	25	35	30	10

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## EXPANSION JOINT RUBBER

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### Spool Rubber Type

Spool rubber Type is a full face integral flange design available in both single and multiple arch types

Construction is of fabric and rubber, reinforced with metal rings or wires

Flanges are integral with the body and drilled to conform with the bolt pattern of the metal companion flange

Face flange is sufficient to form a tight seal without the use of gasket



- ✓ Working pressure : 1.6Mpa
- ✓ Working temperature : -20°C--120°C
- ✓ Product description : Spool rubber expansion joint
- ✓ Spool type rubber expansion joint supplier



**REDUCER Or TAPER TYPE**



**MULTIPLE ARCH TYPE**



**CLAMP TYPE**

#### AVAILABLE FOR OTHER TYPES:

- ✓ Wide Arch
- ✓ Floating Flange
- ✓ Teflon Lined Type
- ✓ Lightweight Type
- ✓ Offset Type
- ✓ TFE/FEP Type
- ✓ Sleeve Spool Type
- ✓ Enlarged End Type
- ✓ Filled Arch Type
- ✓ "Top Hat" Liner

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# VALVE

[www.kenziotech.co.id](http://www.kenziotech.co.id)

## VALVE

Valve or commonly called a valve is a device that regulates, directs or controls the flow of a liquid (gas, liquid, fluidized solid) by opening, closing, or partially closing the flow path.



We provide various kinds and types of valves such as: Ball Valve, Check Valve, Relieve Valve, Vinch Valve, Butterfly Valve, Safety Valve, Control valve, Wafer Valve, Globe Valve, etc.



**CHECK VALVE**



**GATE VALVE**



**GLOBE VALVE**



**BUTTERFLY VALVE**



**BALL VALVE**



**WAFER CHECK VALVE**

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## PTFE LINING

[www.kenziotech.co.id](http://www.kenziotech.co.id)

### PTFE Lining

To avoid depleting the material and arrest the growth of corrosion inside the conveying system, a long sleeve or tube made of PTFE is inserted inside the steel pipes, bends, tees, reducers, spacers, valves and all fittings installed in the whole pipeline.

Due to the inertness of PTFE to almost all chemicals and solvents, it acts as an effective barrier between the chemical and steel, thus not only protecting the conveying system, but also safe guarding the working environment. Corrosion engineers realise the long-term benefits associated with using high performance fluoropolymers to prevent corrosion in process piping system.



**PTFE-LINING  
CROSS TEE**



**PTFE-LINING  
CROSS TEE**



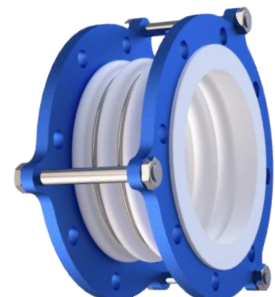
**PTFE-LINING  
ELBOW 90**



**PTFE-LINING  
SPOOL**



**PTFE-LINING  
ECCENTRIC REDUCER**



**PTFE-LINING  
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## PTFE LINING

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**PTFE-LINING  
FLANGE**



**PTFE-LINING  
SIGHT FLOWINDICATOR**



**PTFE-LINING  
METAL BELLOWS**



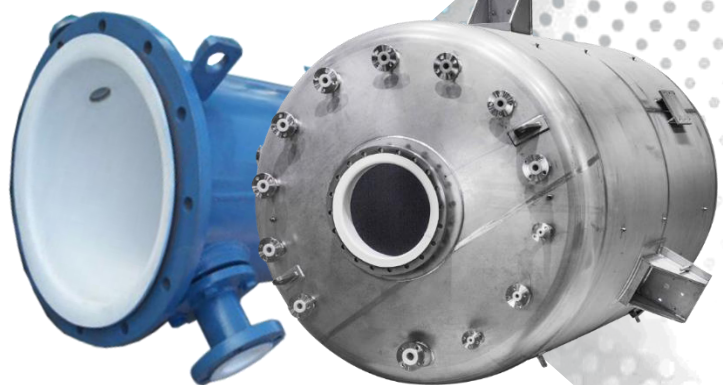
**PTFE-LINING  
RUBBER BELLOWS**



**PTFE-LINING  
HOSE**



**PTFE-LINING  
VALVE**



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## FLEXIBLE HOSE

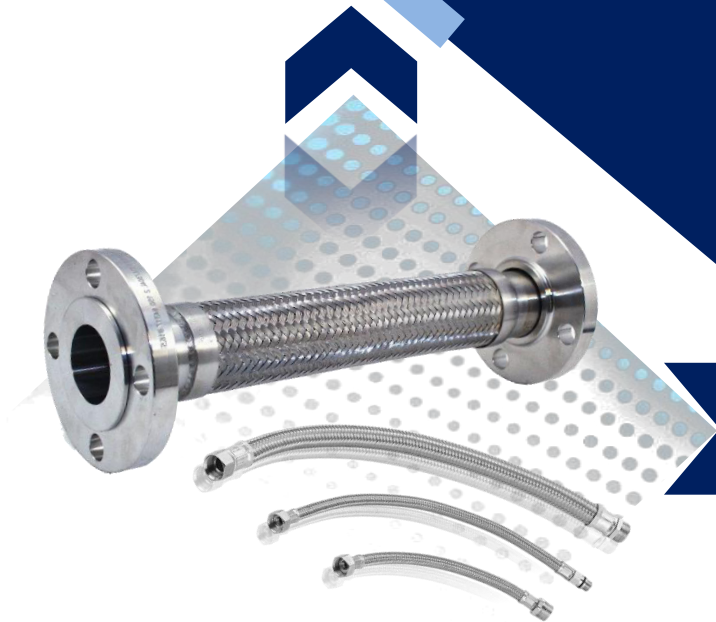
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### Flexible Hose Metal

Stainless flexible metal hose assembly mainly consists of corrugated pipe, stainless braided out of hose and joint on both ends.

Material: 321,304,316,316L

Temperature range : -200°C up to +500°C



APPLICATIONS: It is used in pipe line as soft joint to compensate the movement, absorb vibration and easy piping etc. It has features of anti-corrosion.



#### METAL HOSE

Hose. I.D			O.D		MIN B.R		MAX PRESSURE BAR		WEIGHT	
DN	inch	mm	TUBE	1 WIRE	STATIC	DYNAMIC	1 WIRE	2 WIRE	TUBE	1 WIRE
6	1/4"	6.3	9.0	10.5	35	150	64	100	0.06	0.15
8	5/16"	7.9	10.9	12.5	45	160	64	100	0.08	0.18
10	3/8"	9.5	15.2	16.8	50	180	50	80	0.13	0.28
13	1/2"	12.7	18.5	20.0	64	240	40	64	0.17	0.35
16	5/8"	15.9	21.5	23.0	80	300	35	50	0.20	0.40
19	3/4"	19.0	25.6	27.2	95	340	30	45	0.24	0.50
25	1"	25.4	32.6	37.2	100	400	25	40	0.38	0.75
32	1.1/4"	31.8	40.6	42.2	130	480	25	40	0.48	0.96
38	1.1/2"	38.1	47.6	50.2	200	600	25	40	0.50	1.00
51	2"	50.8	61.5	63.5	240	780	25	40	0.88	1.75

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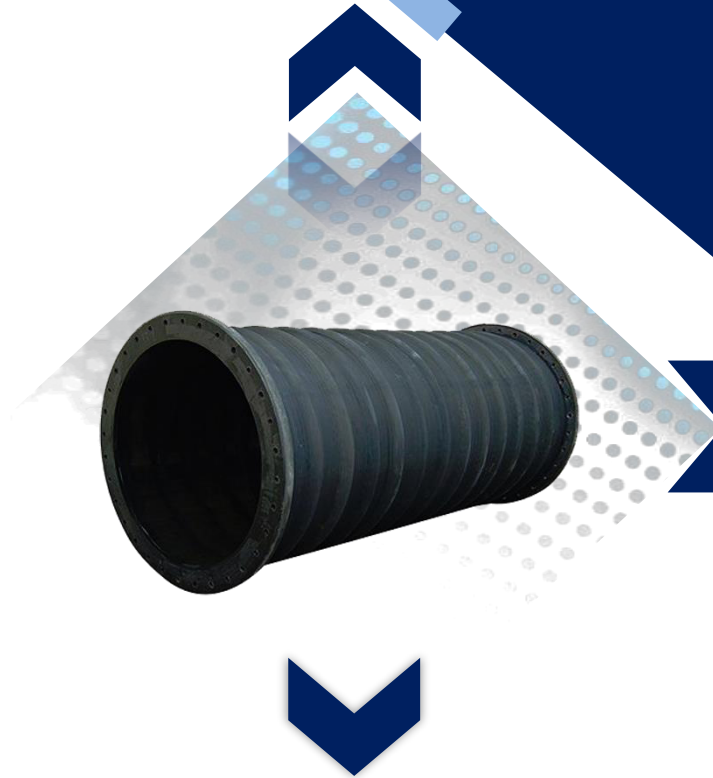


## FLEXIBLE HOSE

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### Flexible Hose Rubber

Rubber hose pipe is used with dredgers for slurry/gravel conveyance, pipe wall thickness range: from 20mm to 50mm. Suitable working temperature: from -20°C to +50°C. Abrasion resistant and bending resistant. Easy to install, flexible to use and safe.



RUBBER HOSE

I.D		O.D		Working Pressure		Burst Pressure		Vacuum Pressure		Lenght
mm	inch	mm	inch	Mpa	bar	Mpa	bar	Kpa	bar	m
152	6"	182	7-1/4"	1.2	12	2.4	24	80	0.8	10
203	8"	233	9-1/5"	1.2	12	2.4	24	80	0.8	10
254	10"	284	11-1/5"	1	10	2	20	80	0.8	10
304	12"	340	13-2/5"	1	10	2	20	80	0.8	6-10
350	14"	390	15-2/5"	1	10	2	20	80	0.8	6-10
450	18"	486	19-1/5"	0.7	7	1.5	15	80	0.8	6-10
550	22"	590	23-3/5"	0.7	7	1.5	15	80	0.8	6-10
600	24"	640	25-3/5"	0.7	7	1.5	15	80	0.8	6-10
700	28"	750	29-3/5"	0.7	7	1.5	15	80	0.8	6-10
800	32"	850	33-1/2"	0.5	5	1	10	80	0.8	6-10
1000	40"	1050	41-1/2"	0.5	5	1	10	80	0.8	6
1200	48"	1250	49-1/5"	0.5	5	1	10	80	0.8	6
1300	52"	1350	53-1/5"	0.5	5	1	10	80	0.8	6

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## HOSE

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### Oil Suction/ Discharge

Nitrile fuel suction hose is widely used in Automotive & Industrial applications requiring chemical resistance. Recommended for transfer of aromatic or non aromatic hydrocarbon fluids. Typical applications include fuel and lubricant transfer, gas transmission lines, gasoline and petrochemical pipes. It has good general industrial properties



#### Construction

<b>Tube</b>	: Black, smooth, Nitrile rubber
<b>Reinforcement</b>	: Multi plies high strength synthetic fabric and steel wire helix skeleton
<b>Cover</b>	: Black, smooth (wrapped finish) high grade chloroprene rubber, compounded for an excellent resistance to weather, ozone, abrasion and oil

**Temperature** : -40°C (-40°F) to + 100°F (+212°F)

**Application** : For suction and discharge of petroleum-based products, diesel, gasoline, lubricants, fuel, with aromatic content up to 50%.

**Characteristic** : Weather and abrasion resistant cover Both smooth and corrugated cover available Flexible and full vacuum For aromatic content up to 50%.

**Size** : 3/4 Inch – 12 Inch

**Coils** : Up to 60mt continuous length

**Branding** : Red transfer tape with negative text

**Reinforcement** : High Strength synthetic cord plus helix wire And anti static copper wire



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## PIPE & TUBE

[www.kenziotech.co.id](http://www.kenziotech.co.id)

Kenziotech Insan Mandiri, PT supplies pipes and tubes as a service product. In order to be able to supply the complete piping range, we also offer seamless and welded pipes in addition to the flanges and fittings. These pipes and tubes are standardized according to EN and ASME and suitable for industrial applications. The pipes are available in various qualities, wall thicknesses and dimensions. Our skilled team is at your service with questions or special requests.

### Seamless Pipe



We supply seamless pipes according to ASTM/ASME as a service product. In order to be able to supply the complete piping range, we also offer the pipes. On request Dimensions, weights and wall thickness according to EN10216-1/4 and EN10216-5 and ASME B36.10 / B36.19 + API Standard 5L. SRL/DRL or fix lengths available. Available in carbon steel or stainless steel

#### We Supply Seamless Pipes in the following material classes:

ASME standard	EN standard
<b>Carbon steel</b>	<b>Carbon steel</b>
A106 Gr.B	P235GH TC1
A333 Gr. 6	P265GH
A53 Gr. B	16Mo3
A335 P5/P11/P22	13CrMo4-5
API 5L	S355
	11CrMo9-10
<b>Stainless steel</b>	
A312 TP316L	<b>Stainless steel</b>
A312 TP304L	1.4301 / 1.4306+7 / 1.4541
A312 TP321H	1.1104 / 1.4404 / 1.4571
F51(Duplex) / F53(Superduplex)	1.4462 (Duplex) / 1.4501 (Superduplex)
<b>Special Alloys</b>	
Hastelloy C276/C22	



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# PIPE & TUBE

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## Welded Pipe

We supply seamless pipes according ASTM/ASME as a service product. In order to be able to supply the complete piping range, we also offer the pipes. On request Dimensions, weights and wall thickness according EN10216-1/4 and EN10216-5 and ASME B36.10 / B36.19 + API Standard 5L. SRL/DRL or fix lengths available. Available in carbon steel or stainless steel

### We Supply Welded Pipes in the following material classes:

ASME standard	EN standard
<b>Carbon steel</b>	<b>Carbon steel</b>
A106 Gr.B	P235GH TC1
A333 Gr. 6	P265GH
A53 Gr. B	16Mo3
A335 P5/P11/P22	13CrMo4-5
API 5L	S355
	11CrMo9-10
<b>Stainless steel</b>	
A312 TP316L	<b>Stainless steel</b>
A312 TP304L	1.4301 / 1.4306+7 / 1.4541
A312 TP321H	1.1104 / 1.4404 / 1.4571
F51(Duplex) / F53(Superduplex)	1.4462 (duplex) / 1.4501 (superduplex)
<b>Special Alloys</b>	
Hastelloy C276/C22	





## PIPE & TUBE

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### STEEL PIPE DIMENSIONS ANSI B36.10 & 36.19

NOMINAL PIPE SIZE		Outside Diameter (MM)	Nominal Wall Thickness Schedule																
NPS	DN	OD	SCH 5s	SCH 10s	SCH 10	SCH 20	SCH 30	SCH 40s	SCH STD	SCH 40	SCH 60	SCH 80s	SCH XS	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	SCH XXS
1/8	6	10.3		1.24				1.73	1.73	1.73		2.41	2.41	2.41					
1/4	8	13.7		1.65				2.24	2.24	2.24		3.02	3.02	3.02					
3/8	10	17.1		1.65				2.31	2.31	2.31		3.20	3.20	3.20					
1/2	15	21.3	1.65	2.11				2.77	2.77	2.77		3.73	3.73	3.73				4.78	7.47
3/4	20	26.7	1.65	2.11				2.87	2.87	2.87		3.91	3.91	3.91				5.56	7.82
1	25	33.4	1.65	2.77				3.38	3.38	3.38		4.55	4.55	4.55				6.35	9.09
1.1/4	32	42.2	1.65	2.77				3.56	3.56	3.56		4.85	4.85	4.85				6.35	9.70
1.1/2	40	48.3	1.65	2.77				3.68	3.68	3.68		5.08	5.08	5.08				7.14	10.15
2	50	60.3	1.65	2.77				3.91	3.91	3.91		5.54	5.54	5.54				8.74	11.07
2.1/2	65	73	2.11	3.05				5.16	5.16	5.16		7.01	7.01	7.01				9.53	14.02
3	80	88.9	2.11	3.05				5.49	5.49	5.49		7.62	7.62	7.62				11.13	15.24
3.1/2	90	101.6	2.11	3.05				5.74	5.74	5.74		8.08	8.08	8.08					
4	100	114.3	2.11	3.05				6.02	6.02	6.02		8.56	8.56	8.56		11.13		13.49	17.12
5	125	141.3	2.77	3.40				6.55	6.55	6.55		9.53	9.53	9.53		12.70		15.88	19.05
6	150	168.3	2.77	3.40				7.11	7.11	7.11		10.97	10.97	10.97		14.27		18.26	21.95
8	200	219.1	2.77	3.76		6.35	7.04	8.18	8.18	8.18	10.31	12.70	12.70	12.70	15.09	18.26	20.62	23.01	22.23
10	250	273.1	3.40	4.19		6.35	7.80	9.27	9.27	9.27	12.70	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
12	300	323.9	3.96	4.57		6.35	8.38	9.53	9.53	10.31	14.27	12.70	12.70	17.48	21.44	25.40	28.58	33.32	25.40
14	350	355.6	3.96	4.78	6.35	7.92	9.53		9.53	11.13	15.09		12.70	19.05	23.83	27.79	31.75	35.71	
16	400	406.4	4.19	4.78	6.35	7.92	9.53		9.53	12.70	16.66		12.70	21.44	26.19	30.96	36.53	40.49	
18	450	457.2	4.19	4.78	6.35	7.92	11.13		9.53	14.27	19.05		12.70	23.83	29.36	34.93	39.67	45.24	
20	500	508	4.78	5.54	6.35	9.53	12.70		9.53	15.09	20.62		12.70	26.19	32.54	38.10	44.45	50.01	
22		559	4.78	5.54	6.35	9.53	12.70		9.53		22.23		12.70	28.58	34.93	41.28	47.63	53.98	
24	600	610	5.54	6.35	6.35	9.53	14.27		9.53	17.48	24.61		12.70	30.96	38.89	46.02	52.37	59.54	
26		660			7.92	12.70			9.53				12.70						
28	700	711			7.92	12.70	15.88		9.53				12.70						
30		762	6.35	7.92	7.92	12.70	15.88		9.53				12.70						
32	800	813			7.92	12.70	15.88		9.53	17.48			12.70						
34		884			7.92	12.70	15.88		9.53	17.48			12.70						
36	900	914			7.92	12.70	15.88		9.53	19.05			12.70						
38		965							9.53				12.70						
40	1000	1016						9.53		12.70									
42		1067				12.70	15.88		9.53	19.05			12.70						
44	1100	1118							9.53				12.70						
46		1168							9.53				12.70						
48	1200	1219							9.53			12.70							

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## PIPE & TUBE

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### STEEL PIPE DIMENSIONS EN 10253-2

NOMINAL PIPE SIZE		Outside Diameter (MM)	Wall thickness series in accordance with EN 10253-2 in mm							
NPS	DN	OD	1	2	3	4	5	6	7	8
1/2	15	21.3	-	2.0	2.6	3.2	4.0	-	5.0	7.1
3/4	20	26.9	-	2.3	2.6	3.2	4.0	4.5	5.6	8.0
1	25	33.7	-	2.6	3.2	4.0	4.5	5.6	6.3	8.8
1.1/4	32	42.4	-	2.6	3.6	4.0	5.0	6.3	8.0	10.0
1.1/2	40	48.3	-	2.6	3.6	4.0	5.0	6.3	8.0	10.0
2	50	60.3	-	2.9	3.6	4.0	5.6	7.1	8.8	11.0
2.1/2	-	73.0	-	2.9	3.6	4.5	7.1	-	-	14.2
-	65	76.1	-	2.9	3.6	5.6	7.1	8.0	10.0	14.2
3	80	88.9	-	3.2	4.0	5.6	8.0	8.8	11.0	16.0
3.1/2	-	101.6	-	3.6	4.0	5.6	8.0	-	-	-
4	100	114.3	-	3.6	4.5	6.3	8.8	11.0	14.2	17.5
-	125	139.7	-	4.0	5.0	6.3	10.0	12.5	16.0	20.0
5	-	141.3	-	4.0	5.4	6.3	10.0	-	16.0	20.0
6	150	168.3	4.0	4.5	5.6	7.1	11.0	14.2	17.5	22.2
8	200	219.1	4.5	6.3	7.1	8.0	12.5	16.0	17.5	22.2
10	250	273.0	5.0	6.3	8.8	10.0	12.5	16.0	22.2	30.0
12	300	323.9	5.6	7.1	8.8	10.0	12.5	17.5	25.0	32.0
14	350	355.6	5.6	8.0	10.0	12.5	16.0	20.0	28.0	36.0
16	400	406.4	6.3	8.8	10.0	12.5	17.5	22.2	30.0	40.0
18	450	457.0	6.3	10.0	11.0	12.5	17.5	22.2	32.0	45.0
20	500	508.0	6.3	10.0	11.0	12.5	17.5	25.0	36.0	50.0
22	550	559.0	6.3	10.0	-	12.5	-	28.0	-	-
24	600	610.0	6.3	10.0	12.5	17.5	25.0	30.0	45.0	60.0
26	650	-	-	-	-	-	-	-	-	-
28	700	711.0	7.1	10.0	12.5	25.5	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-
32	800	813.0	8.0	10.0	12.5	25.0	-	-	-	-
34	-	-	-	-	-	-	-	-	-	-
36	900	914.	10.0	12.5	20.0	25.0	-	-	-	-

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## PIPE & TUBE

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### Stainless Steel Decorative Tube

Stainless Products supplies stainless steel decorative tube per ASTM A 213, ASTM A 269 and ASTM A 511. We supply common grades of stainless steel such as 304/304L and 316/316L in standard tube sizes and wall thicknesses.



#### Stainless Steel Seamless Pipe Tolerances :

Specified Dimension, Outside Diameter	Ratio of Wall Thickness to Outside Diameter	Outside Diameter		Up To 0.109		0.109 to 0.172		Over 0.172 to 0.203		Over 0.203		Permissible Variations In Cut Length	
		Over	Under	Over	Under	Over	Under	Over	Under	Over	Under	Over	Under
up to 3"	All Thickness	0.023	0.023	16.5	16.5	15	15	14	14	12.5	12.5	3/16	0
3" to > 5.5"	All Thickness	0.031	0.031	16.5	16.5	15	15	14	14	12.5	12.5	3/16	0
5.5" to > 8"	All Thickness	0.047	0.047					14	14	12.5	12.5	3/16	0
8" to > 10.75"	5% and Over	0.047	0.047							12.5	12.5	3/16	0
10.75" to > 12.75"	Under 5%	0.063	0.063							12.5	12.5	3/16	0
Specified Dimension, Outside Diameter	Ratio of Wall Thickness to Outside Diameter	Outside Diameter		Up To 0.109		0.109 to 0.172		Over 0.172 to 0.203		Over 0.203		Permissible Variations In Cut Length	

#### Nominal Wall Thickness:

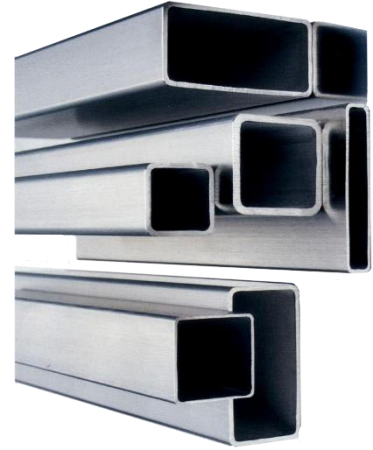
- ° Nominal Wall Tolerance Plus 12.5%, Minus 12.5%
- ° These do not conform to the American National Standard for Welded and Seamless Wrought Steel Pipe
- ° (ANSI B 36.10 – 1979)

## PIPE & TUBE

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### Stainless Steel Square Tube

Stainless steel square tubing in a number of standard sizes and grades, including in 304, 304L and 316/316L. Standard finishes include mill finish and 180 Grit (#4 polish) with availability of 240 Grit, 320 Grit and a #8 mirror finish. 30' sections can be supplied without a girth weld. Nearly any grade of stainless, duplex or nickel alloys can be produced into square structural sections.



#### Tolerances

Outside Dimension Tolerances:

Largest Specified Outside Dimension Across Flats, in.	Wall Thickness, in.	+/-, in. Across Flats, Convexity or Concavity incl.
To 1 1/4 incl.	all	0.015
Over 1 1/4 to 2 1/2, incl.	all	0.02
Over 2 1/2 to 5 1/2, incl.	all	0.03
Over 5 1/2 to 8, incl.	all	0.06
Largest Specified Outside Dimension Across Flats, in.	Wall Thickness, in.	+/-, in. Across Flats, Convexity or Concavity incl.

#### Straightness Tolerance:

The Straightness tolerance is 0.075 in. in 3ft using a 3ft straightedge and feeler gauge.

#### Maximum Radii of Corners :

Wall Thickness	Radii of Cornersmax, in.
Over 0.020 to 0.049, incl.	3/32
Over 0.049 to 0.065, incl.	1/8
Over 0.065 to 0.083, incl.	9/64
Over 0.083 to 0.095, incl.	1/16
Over 0.095 to 0.109, incl.	13/64
Over 0.109 to 0.134, incl.	7/32
Over 0.134 to 0.156, incl.	1/4
Over 0.156 to 0.200, incl.	3/8
Over 0.200 to 0.250, incl.	1/2
Over 0.250 to 0.375, incl.	3/4
Wall Thickness	Radii of Cornersmax, in.

#### Squareness of Sides:

$$\pm B = C * 0.006$$

Where:

B = tolerance for out of square

C = length of longest side

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## PIPE & TUBE

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### Stainless Steel Round Bar

Stainless Products supplies stainless steel seamless tube per ASTM A 213, ASTM A 269 and ASTM A 511. We supply common grades of stainless steel such as 304/304L and 316/316L in standard tube sizes and wall thicknesses. We can also supply nickel alloys.



ITEM	DESCRIPTION
Commodity	Stainless Steel Bar
Grade	201, 202, 301, 304, 304L, 316, 316L, 321, 310S.
Surface	Bright, Black, Polished.
Diameter	34mm - 450mm, as customer 's requirement.
Length	4 meter to 12 meters or as customer 's requirement.
Standard	AISI, ASTM, JIS, GB, DIN, etc.
201 Stainless Steel Bar	200 series: 201 mid copper, 201 high copper, 202300 series: 301,304, 304L, 316, 316L,321,309S,310S etc.

Chemical Properties of Frequently-used Austenitic Stainless Steel Material Grade

UNS	ASTM	EN	JIS	C%	Mn%	P%	S%	Si%	Cr%	Ni%	Mo%
S20100	201	14.372	SUS201	≤0.15	5.5-7.5	≤0.06	≤0.03	≤1.00	16.0-18.0	3.5-5.5	-
S20200	202	14.373	SUS202	≤0.15	7.5-10.0	≤0.06	≤0.03	≤1.00	17.0-19.0	4.0-6.0	-
S30100	301	14.319	SUS301	≤0.15	≤2.00	≤0.045	≤0.03	≤1.00	16.0-18.0	6.0-8.0	-
S30400	304	14.301	SUS304	≤0.08	≤2.00	≤0.045	≤0.03	≤0.75	18.0-20.0	8.0-10.5	-
S30403	304L	14.306	SUS304L	≤0.03	≤2.00	≤0.045	≤0.03	≤0.75	18.0-20.0	8.0-12.0	-
S30908	309S	14.833	SUS309S	≤0.08	≤2.00	≤0.045	≤0.03	≤0.75	22.0-24.0	12.0-15.0	-
S31008	310S	14.845	SUS310S	≤0.08	≤2.00	≤0.045	≤0.03	≤1.50	24.0-26.0	19.0-22.0	-
S31600	316	14.401	SUS316	≤0.08	≤2.00	≤0.045	≤0.03	≤0.75	16.0-18.0	10.0-14.0	2.0-3.0
S31603	316L	14.404	SUS316L	≤0.03	≤2.00	≤0.045	≤0.03	≤0.75	16.0-18.0	10.0-14.0	2.0-3.0
S31703	317L	14.438	SUS317L	≤0.03	≤2.00	≤0.045	≤0.03	≤0.75	18.0-20.0	11.0-15.0	3.0-4.0
S32100	321	14.541	SUS321	≤0.08	≤2.00	≤0.045	≤0.03	≤0.75	17.0-19.0	9.0-12.0	-
S34700	347	14.550	SUS347	≤0.08	≤2.00	≤0.045	≤0.03	≤0.75	17.0-19.0	9.0-13.0	-

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## THERMAL JACKETING

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Energy Saving Insulation Jackets have a wide range of Industrial and commercial applications, such as energy conservation, personnel protection and heat protection. Each Energy Saving Insulation Jacket is a specially designed flexible blanket. They can be used to insulate steam turbines and just about anything you can imagine. Energy Saving Insulation Jackets are made from only the finest materials. Heavy density needle fiberglass is used as the insulating material for most enclosures, but other materials can be used to meet your specifications.



Polymer coated fiberglass fabric is commonly used for the inner lining and outer weather barrier; but because each protective insulating jacket is specially designed, they can be made to your specific requirements. For applications where the temperature exceeds 1200 celsius, Fiberglass cloth or 304 stainless steel mesh can be used as the inner layer. If oily conditions are a concern, a protective insulation jacket can wrap the insulation in an aluminum jacket before installing the inner or outer layers to prevent the insulation from absorbing oil. This insulating jacket has many built-in features to ensure a snug and easy fit. A 2" wide Hook & Loop Closure Strip is applied across the lap instead of 1", to ensure the lap stays in place. A polypropylene belt with a "D" ring is used to quickly close and secure the cover. Flaps with straps are used to help seal in weather where the cover fits into conventional insulation. Bindings are used to strengthen all exposed seams. The insulating jacket is sewn to provide strength and a pleasing appearance. At high tension points, double and triple stitches are used for reinforcement. For high temperature applications, "hog ring" staples are used.



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# FLANGE

[www.kenziotech.co.id](http://www.kenziotech.co.id)

## Flange

Our flanges are available according DIN / EN1092-1, ASME B16.5, B16.47 (A / B Series), B16.36, BS 3293 and API 6A. We have an extensive, high-quality product range of flanges and supply these in accordance with existing industry standards or according to your specification.

This type of flange is divided because the flange works in different pressures according to the class.



**BLIND FLANGE**



**LAP JOINT FLANGE**



**SW FLANGE**



**SLIP ON FLANGE**



**SPADE AND SPACER**



**WN FLANGE**

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## FLANGE

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### ASME standard Material Grade

#### Carbon steel

A/SA105N / C21, P265GH

A/SA350 LF2 / P355QH1

A/SA182 Gr. F1,F5,F9,F11,F12,F22,F91.

A694 Gr. F52,F60,F65,F70

#### Stainless steel

A/SA182Gr. 304/304L

A/SA182Gr. 316/316L

A/SA182 F321(H)

F51(Duplex) / F53(Superduplex)

#### Special Alloys

Hastelloy C276/C22



FLAT FLANGE



LOOSE FLANGE

ASME standard	Pressure class	DIN standard	EN standard	Pressure
B16.5 - B16.47 A/B	150 lbs	2631	EN 1092-1	PN 6
B16.5 - B16.47 A/B	300 lbs	2632	EN 1092-1	PN 10
B16.5 - B16.47 A/B	400 lbs	2633	EN 1092-1	PN 16
B16.5 - B16.47 A/B	600 lbs	2634	EN 1092-1	PN 25
B16.5 - B16.47 A/B	900 lbs	2635	EN 1092-1	PN 40
B16.5 - B16.47 A/B	1500 lbs	2636	EN 1092-1	PN 63
B16.5 - B16.47 A/B	2500 lbs	2637	EN 1092-1	PN 100
		2638	EN 1092-1	PN 160
		2628	EN 1092-1	PN 250
		2629	EN 1092-1	PN 320
		2627	EN 1092-1	PN 400



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## BOLT NUT

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We provide bolt nuts and the like for your company's needs according to your request and the size needed with ASME / ANSI and DIN standards, here are the types of bolts available at us.



### Hex Nut



#### Product information

Standard	: DIN931, DIN933
Size	: M1.6-M64
Material	: Carbon Steel, Stainless Steel, Alloy Steel, Brass, Aluminum, Monel
Grade	: 4.8, 5.8, 6.8, 8.8, 10.9, 12.9; Gr2/5/8
Finish	: Plain, Black Oxide, Zinc Plated, H.D.G, PTFE, Dacromet, Nickel, Chrome, Zinc Nickel

### Hex Flange Bolt



#### Product information

Standard	: DIN6921
Size	: M5-M20, 1/4-20, 5/16-18, 3/8-16
Material	: Carbon Steel, Stainless Steel, Alloy Steel, Brass, Aluminum, Monel
Grade	: 4.8, 8.8, 10.9, 12.9; A2-70, A4-70, Gr5
Finish	: Plain, Black Oxide, Zinc Plated, H.D.G, PTFE, Dacromet, Nickel, Chrome, PTFE, Dacromet, Zinc Nickel.

### Carriage Bolt



#### Product information

Standard	: DIN603
Size	: M5-M20
Material	: Carbon Steel, Stainless Steel
Grade	: 8.8, 10.9, 12.9; A2-70, A4-70
Finish	: Plain, Black Oxide, Zinc Plated, H.D.G, PTFE, Dacromet, Chrome, Zinc Nickel.

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## BOLT NUT

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### Hex Socket Bolt



#### Product information

Standard	: DIN912, GB /T 70.1, ISO 4762, DIN EN ISO 12474 ANSI/ASME B 18.3.1M, UNI 5931, NF E 25-125, AS 1420
Size	: M1.4-M100
Material	: Stainless Steel, Brass, Steel, Carbon Steel, Aluminum or Aluminum Alloy
Grade	: Class 4.8, 5.8, 6.8, 8.8, 10.9, 12.9;
Thread	: UNC, UNF, UEF, UN, UNS
Finish	: Plain, Black oxide, Zinc Plated (Clear/Blue/Yellow/Black), H.D.G, Nickel, Chrome, PTFE, Dacromet, Geomet, Magni, Zinc Nickel, Zinteck.

### Heavy Hex Bolt



#### Product information

Standard	: GB, DIN, ISO, ANSI/ASTM, BS, BSW, JIS etc
Size	: M12-M36
Material	: Carbon steel, stainless steel, alloys steel etc.
Grade	: A2-70, A4-80, 4.8-12.9
Thread	: UNC, UNF, UEF, UN, UNS
Finish	: Plain, Zinc Plated, Black Oxide, Hot dip galv.

### U-Bolt



#### Product information

Standard	: DIN3570 or custom demand
Size	: Nom diameter: 30-530
Material	: Carbon Steel, Stainless Steel
Finish	: Plain, Black Oxide, Zinc Plated, H.D.G, PTFE, Dacromet, Nickel, Chrome, PTFE, Dacromet, Zinc Nickel.

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## BOLT NUT

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### Fishtail Bolt



#### Product information

Standard	: ASME B 18.10 - 2006
Size	: M12-M30
Material	: Carbon Steel, Stainless Steel
Grade	: 4.8, 6.8, 8.8, 10.9, 12.9
Finish	: ZINC, Plain, Dacromet

### Hanger Bolt



#### Product information

Standard	: DIN, ASME, ASNI, ISO
Size	: M4-M60
Material	: Carbon Steel; Stainless steel
Grade	: 4.8, 8.8, 10.9, 12.9
Finish	: Zinc Plated, Hot Dip Galvanized Steel, Dacromet, Nickel Plated, Black Oxide, Plain

### Huck Bolt



#### Product information

Standard	: ISO, GB, BS, DIN, ANSI, JIS, Non-standard
Size	: M2-M100, according to customer's demand
Material	: Carbon Steel, Stainless steel, Alloy Steel
Grade	: 4.8, 6.8, 8.8, 10.9, 12.9
Finish	: ZINC, Plain, Dacromet

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## BOLT NUT

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### J-Bolt



#### Product information

Standard	: GB/T 799
Size	: M8-M72
Material	: Carbon steel;Stainless Steel
Grade	: SAE J429 Gr.2, 5,8; ASTM A307Gr.A, A193 B7, B8, B8M, A194 2H, Class 4.8, 5.8, 6.8, 8.8, 10.9, 12.9 and etc.
Finish	: Plain, Zinc Plated (Clear/Blue/Yellow/Black), Black oxide, Nickel, Chrome, H.D.G and etc.

### Threaded Rod



#### Product information

Standard	: DIN 975, DIN976
Size	: M2-M52, Customize
Material	: Carbon Steel, Stainless Steel, Alloy Steel, Brass, Monel
Grade	: Class 4.8, 5.8, 6.8, 8.8, 10.9, 12.9
Finish	: Plain, Black Oxide, Zinc Plated, H.D.G, PTFE, Dacromet, Nickel, Chrome, PTFE,Dacromet, Zinc Nickel

### Stud Bolt



#### Product information

Standard	: JB/T 4707
Size	: M16-M36
Material	: Carbon steel/Stainless steel/Titanium
Grade	: 4.8/5.8/6.8/8.8/10.9/12.9/14.9 Ect
Thread	: unc unf metric
Finish	: ZINC, Plain, yellow zine, Black

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## BOLT NUT

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### B7 Threaded Rod



#### Product information

Standard	: DIN 975, DIN976
Size	: M2-M52, Customize
Material	: Carbon Steel, Stainless Steel, Alloy Steel, Brass, Monel
Grade	: Class 4.8, 5.8, 6.8, 8.8, 10.9, 12.9
Finish	: Plain, Black Oxide, Zinc Plated, H.D.G, PTFE, Dacromet, Nickel, Chrome, PTFE, Dacromet, Zinc Nickel

### Wedge Anchor



#### Product information

Standard	: DIN, ASME, ASNI, ISO
Size	: M8-M200, 3/8-8"
Material	: Stainless Steel, Steel, Carbon Steel, Alloy Steel, Stainless, etc
Grade	: Grade 4.8, Grade 8.8, Grade 10.9, Grade 12.9
Thread	: UNC, UNF, Fine, Coarse
Finish	: Zinc Plated, Hot Dip Galvanized Steel, Dacromet, Nickel

### Other



Drop In Anchor



Sleeve Anchors



Concrete Screw



Set Screw



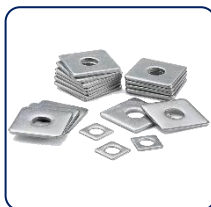
Flat Washer



Retaining Ring



Spring Washer



Square Washer



Hex Nut



Hex Flange Nut



Hex Coupling Nut



Castle Nut

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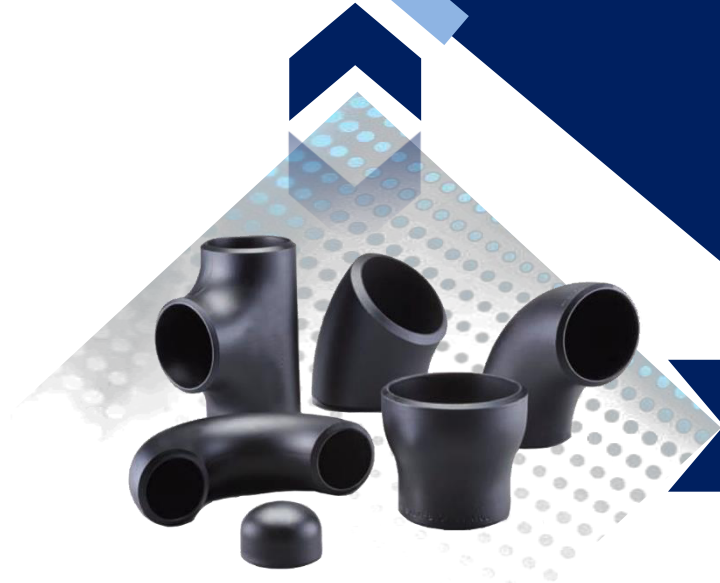
## FITTING

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### Elbow

We provide a wide range of fittings for the energy sector, freelance industry and the oil and gas industry. Our products meet the highest quality requirements and are delivered to existing industry standards or to your specifications.

Butt weld fittings and forged fittings are available according to DIN, EN, ASME and MSS-SP97



Seamless Elbows according to ASME B16.9 are often used in installations, piping systems or equipment construction. KenzioTech can supply suitable Elbows for every quality, pipe size and radius.



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## FITTING

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ASME standard (Material Grade)	EN standard (Material Grade)
<b>Carbon steel</b>	<b>EN10253-2 (Carbon steel)</b>
A234 WPB	P265GH
A420 WPL6	P235GH TC1
A234 WP5/WP11/WP22	P235GH TC2
	16Mo3
<b>Stainless steel</b>	13CrMo4-5
A403 WP316L	P355N/NL1
A403 WP304L	P355NH
A403 F321H	
F51(Duplex) / F53(Superduplex)	<b>EN10253-4 (Stainless steel)</b>
	1.4301 / 1.4306+7 / 1.4541
<b>Special Alloys</b>	1.1104 / 1.4404 / 1.4571
Hastelloy C276/C22	1.4462 (Duplex) / 1.4501 (Superduplex)



Available in 45°, 90° and 180°, Long Radius and Short Radius, Dimensions up to 18", Multiple material grades in stock, Different wall thicknesses available according ASME B 36.10 / 36.19 or specification

DIN standard	EN standard	Type	Edition	ASME standard	Type
2605 T1/2	EN 10253	A/B	2D	B16.9	Long Radius (LR)
2605 T1/2	EN 10253	A/B	3D	B16.9	Short Radius (SR)
2605 T1/2	EN 10253	A/B	5D		

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**FITTING**

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**Reducer Tee**

Seamless Reducing Tees according ASME B16.9 are often used in installations, piping systems or equipment construction. KenzioTech can supply suitable Reducing Tees for every quality, pipe size and wall thickness.



Dimensions up to 12". Different wall thicknesses available according ASME B 36.10 / 36.19 and Available according DIN 2615 and EN10253-A. Dimensions up to DN 300. Different wall thicknesses available according EN10253 or specification



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## FITTING

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DIN standard	EN standard	Type	ASME standard
2615-1	EN 10253	A	B16.9
			B16.9

ASME standard	EN standard
<b>Carbon steel</b>	<b>EN10253-2 (Carbon steel)</b>
A234 WPB	P265GH
A420 WPL6	P235GH TC1
A234 WP5/WP11/WP22	P235GH TC2
	16Mo3
<b>Stainless steel</b>	13CrMo4-5
A403 WP316L	P355N/NL1
A403 WP304L	P355NH
A403 F321H	
F51(Duplex) / F53(Superduplex)	<b>EN10253-4 (Stainless steel)</b>
	1.4301 / 1.4306+7 / 1.4541
<b>Special Alloys</b>	1.1104 / 1.4404 / 1.4571
Hastelloy C276/C22	1.4462 (Duplex) / 1.4501 (Superduplex)

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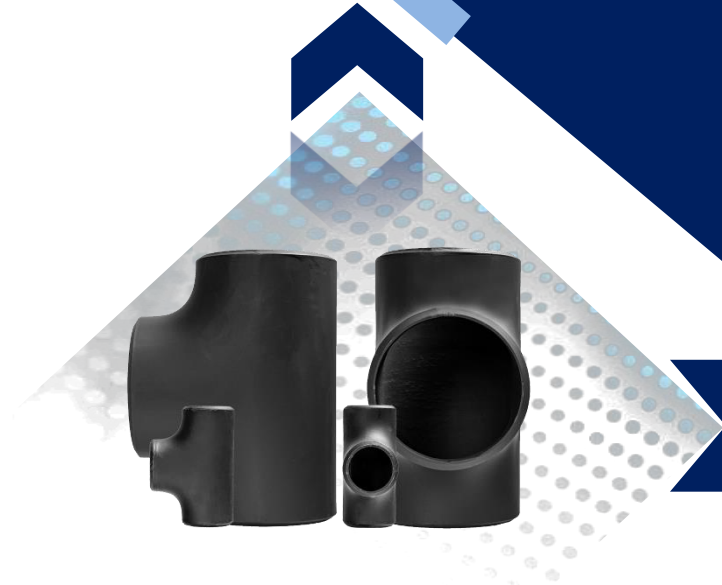
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## Equal Tee

Seamless Equal Tees according ASME B16.9 are often used in installations, piping systems or equipment construction. KenzioTech can supply suitable Equal Tees for every quality, pipe size and wall thickness.



Available according DIN 2615 and EN10253-A. Dimensions up to DN 300. Dimensions up to 12". Different wall thicknesses available according ASME B 36.10 / 36.19 or specification



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DIN standard	EN standard	Type	ASME standard
2615-1	EN 10253	A	B16.9
			B16.9

ASME standard	EN standard
<b>Carbon steel</b>	<b>EN10253-2 (Carbon steel)</b>
A234 WPB	P265GH
A420 WPL6	P235GH TC1
A234 WP5/WP11/WP22	P235GH TC2
	16Mo3
<b>Stainless steel</b>	13CrMo4-5
A403 WP316L	P355N/NL1
A403 WP304L	P355NH
A403 F321H	
F51(Duplex) / F53(Superduplex)	<b>EN10253-4 (Stainless steel)</b>
	1.4301 / 1.4306+7 / 1.4541
<b>Special Alloys</b>	1.1104 / 1.4404 / 1.4571
Hastelloy C276/C22	1.4462 (Duplex) / 1.4501 (Superduplex)

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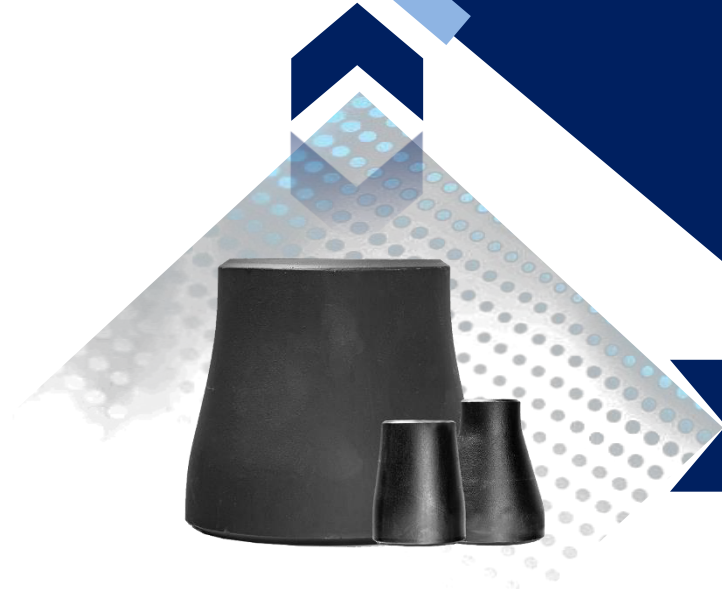


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## Concentric Reducer

Seamless Concentric Reducers according ASME B16.9 are often used in installations, piping systems or equipment construction. KenzioTech can supply suitable Concentric Reducers for every quality, pipe size and wall thickness.



Dimensions up to 12". Different wall thicknesses available according ASME B 36.10 / 36.19. Available according DIN 2616-2 / EN 10253-B, Different wall thicknesses available according EN10253 or specification, Dimensions up to DN 500



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DIN standard	EN standard	Type	ASME standard
2616-2	EN 10253	B	B16.9
			B16.9

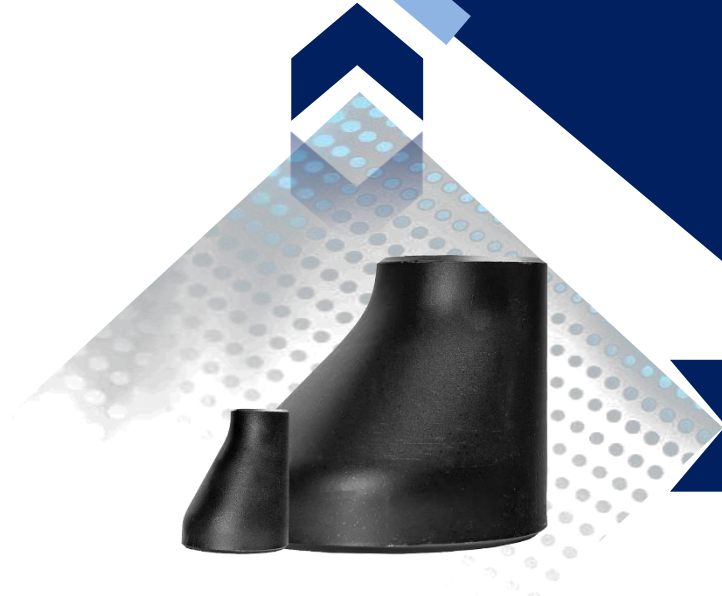
ASME standard	EN standard
<b>Carbon steel</b>	<b>EN10253-2 (Carbon steel)</b>
A234 WPB	P265GH
A420 WPL6	P235GH TC1
A234 WP5/WP11/WP22	P235GH TC2
	16Mo3
<b>Stainless steel</b>	13CrMo4-5
A403 WP316L	P355N/NL1
A403 WP304L	P355NH
A403 F321H	
F51(Duplex) / F53(Superduplex)	<b>EN10253-4 (Stainless steel)</b>
	1.4301 / 1.4306+7 / 1.4541
<b>Special Alloys</b>	1.1104 / 1.4404 / 1.4571
Hastelloy C276/C22	1.4462 (Duplex) / 1.4501 (Superduplex)

**FITTING**

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## Eccentric Reducer

Seamless Eccentric Reducers according ASME B16.9 are often used in installations, piping systems or equipment construction. KenzioTech can supply suitable Eccentric Reducers for every quality, pipe size and wall thickness.



Dimensions up to 16". Different wall thicknesses available according ASME B 36.10 / 36.19 or specification



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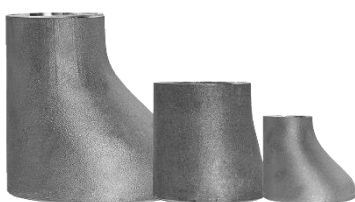
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DIN standard	EN standard	Type	ASME standard
2616-1	EN 10253	A	B16.9
			B16.9

ASME standard	EN standard
<b>Carbon steel</b>	<b>EN10253-2 (Carbon steel)</b>
A234 WPB	P265GH
A420 WPL6	P235GH TC1
A234 WP5/WP11/WP22	P235GH TC2
	16Mo3
<b>Stainless steel</b>	13CrMo4-5
A403 WP316L	P355N/NL1
A403 WP304L	P355NH
A403 F321H	
F51(Duplex) / F53(Superduplex)	<b>EN10253-4 (Stainless steel)</b>
	1.4301 / 1.4306+7 / 1.4541
<b>Special Alloys</b>	1.1104 / 1.4404 / 1.4571
Hastelloy C276/C22	1.4462 (Duplex) / 1.4501 (Superduplex)



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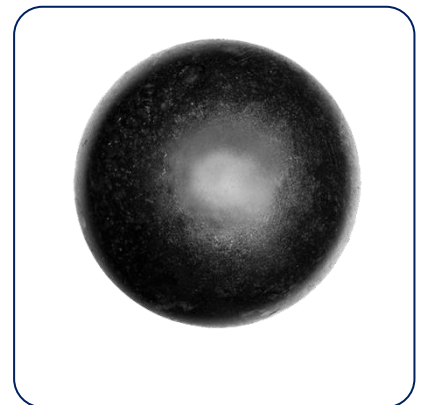
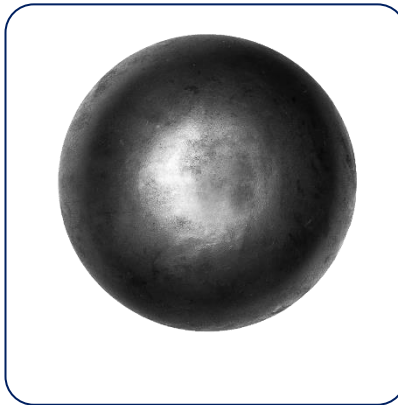
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### Cap

Seamless Caps according ASME B16.9 and Seamless Caps according EN10253 (DIN 2617) are often used in installations, piping systems or equipment construction. KenzioTech can supply suitable Caps for every quality, pipe size and wall thickness.



Dimensions up to 16". Different wall thicknesses available according ASME B 36.10 / 36.19 and Available according DIN 2617 / EN10253. Dimensions up to DN 300. Different wall thicknesses available according EN10253 or specification



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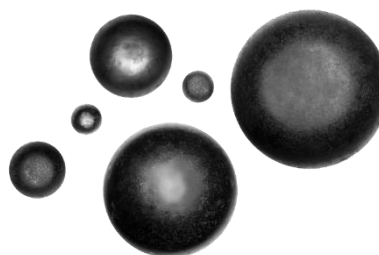


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DIN standard	EN standard	Type	ASME standard
2617	EN 10253	B	B16.9
			B16.9

ASME standard	EN standard
<b>Carbon steel</b>	<b>EN10253-2 (Carbon steel)</b>
A234 WPB	P265GH
A420 WPL6	P235GH TC1
A234 WP5/WP11/WP22	P235GH TC2
	16Mo3
<b>Stainless steel</b>	13CrMo4-5
A403 WP316L	P355N/NL1
A403 WP304L	P355NH
A403 F321H	
F51(duplex) / F53(superduplex)	<b>EN10253-4 (Stainless steel)</b>
	1.4301 / 1.4306+7 / 1.4541
<b>Special Alloys</b>	1.1104 / 1.4404 / 1.4571
Hastelloy C276/C22	1.4462 (Duplex) / 1.4501 (Superduplex)



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## FITTING

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### Forged Fitting

We supply an extensive range of forged fittings to the energy sector, the offshore industry and the oil and gas industry. Our products meet the highest quality requirements and are delivered according to existing industry standards or your specifications.



#### Examples of forged fittings



COUPLING



CROSS FITTING



ELBOLET



ELBOW UNION



HALF COUPLING



HEX PLUG

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**NIPOLET**



**PIPE NIPPLE**



**RED FEMALE**



**RED MALE**



**RED COUPLING**



**RED HEX NIPPLE**



**SIDE OUTLET ELBOW**



**SOCKOLET**



**WELDOLET**

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## FITTING

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**SQUARE PLUG**



**STUB END**



**SWAGE NIPPLE**



**THREDOLET**



**UNION TEE**



**WELDING BOSS**



**ROUND PLUG**



**FEMALE UNION**



**MALE UNION**

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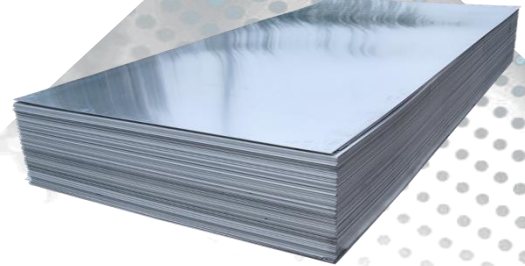


## PLATE

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### Steel Plate

The type of steel plate is generally divided into thick plate (above 6mm), medium thick plate (3-6mm) and thin plate (below 3mm) according to the thickness. Kenziotech provides plates as needed with carbon steel and stainless steel materials with ASTM, AISI, JIS, GB, DIN, EN standards.



#### Carbon Steel Plate

Material	Q235, Q255, Q275, SS400, A36, SM400A, St37-2, SA283Gr, S235JR, S235J0, S235J2
Processing Service	Bending, Welding, Decoiling, Cutting, Punching
Length	2000mm, 2438mm, 3000mm, 3500, 6000mm, 12000mm, or rolled, etc etc
Standard	ASTM, AISI, JIS, GB, DIN, EN
Surface	Black painted, PE coated, Galvanized, color coated, anti rust varnished, anti rust oiled, checkered, etc
Application	Widely used in building structure and engineering construction.

#### Stainless Steel Plate

Grade	201, 202, 304, 304L, 309, 309S, 310S, 316, 316L, 316Ti, 317L, 321, 347H, 409, 409L, 410, 410S, 420 (420J1, 420J2), 430, 436, 439, 441, 444, 446 etc 1.4301, 1.4307, 1.4541, 1.4401, 1.4404, 1.4571, 1.4438, 1.4539, 1.4547, 1.4529, 1.4562, 1.4410, 1.4878, 1.4845, 1.4828, 1.4876, 2.4858, 2.4819
Width	1000mm, 1219mm, 1500mm, 1800mm, 2000mm, 2500mm, 3000mm, 3500mm, etc
Length	2000mm, 2440mm, 3000mm, 5800mm, 6000mm, etc
Thickness	0.01~200mm
Standard	ASTM, EN, DIN, GB, ISO, JIS
Application	Architectural decoration, luxury doors, elevators decorating, metal tank shell, ship building, decorated inside the train, as well as outdoor works, advertising nameplate, the ceiling and cabinets, aisle panels, screen, the tunnel project, hotels, guest houses, entertainment place, kitchen equipment, light industrial and so on.

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**OTHER PRODUCT**[www.kenziotech.co.id](http://www.kenziotech.co.id)**Joint Sealant PTFE**

Multi-purpose pipe sealing tape manufactured from 100% expanded PTFE fluorocarbon material, supplied as a continuous low density tape with a self-adhesive backing strip. Soft and spongy, easily conforms to all surface irregularities and able to compress to a thin ribbon under pressure.

Best teflon tape for plumbing. Quickly seal faucets and pipes with PTFE thread tape made from Fluorocarbon material, also called ePTFE sealing tape. FDA approved, can be used in food and drug applications. Has Excellent thermal and chemical resistance. Equivalent to Teadit 24B and Gore-Tex sealant tape. Form in place gasket sealant for general purpose applications. Suitable for pipe flange, concrete lids, manways, glass joints, ceramic joints, heat exchangers, water systems, hydraulic and pneumatic systems, fiberglass reinforced plastic vessels, pump or compressor housing flanges.

**Seal Tape PTFE**

PTFE is compatible with a wide range of materials due to a low coefficient of friction and is very non-reactive.

PTFE Thread Seal Tape is widely used for general water plumbing applications because of its consistent quality.

**Features**

- °Chemically inert and withstands solvents.
- °Provides tight assembly and easy disassembly.
- °Flame resistant.
- °No curing time required.



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## OTHER PRODUCT

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### Bulky Glass Tape/ Cloth

Bulky glass tape/ cloth, Glass woven roving is a two-way fabric carried by direct roving in a plain weave pattern. Compatible with unsaturated polyester, vinylresin, epoxy resin. Application: hand lay-up, winding and compress molding process, suitable for manufacturing tanks, boats. Product characteristics : Consistent thickness and excellent surface treatment.

Heat Resistance: 600 c Tensile strength (kg/50 mm)  
shrinkage in percentage: 800 c x 0.5 hour: 5%



Bulky Glass Cloth



Bulky Glass Tape

### Rockwool

Rockwool is a board made of basalt, an inorganic raw material. It is produced by heating basalt at 1350 C - 1400 C and converting into fibers that are bonded together using a thermosetting resin. Light weight and easy to install, mainly used for thermal and acoustic insulation where high compressive strength is required such as over-deck, sandwich panel flooring, and partition walls.

Thickness: 30-200mm

Density: 40-200kg/m3



### Ceramic Blanket

Ceramic Fiber Blankets consist of a durable, flexible, interwoven fiber produced by a "blown" and "spun" process resulting in a strong, lightweight and durable blanket for application in a temperature range of 538 °C (1000 °F) to 1,480 °C (2700 °C). F). Ceramic Fiber Blanket has heat resistance than hard refractories with five times better insulation value.



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## ENGINEERING SERVICE

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### Cleaning Heat Exchanger

Maintenance Service For Plates, we can offer plates cleaning and reassemble service to our customer. Our specially trained and experienced staff will provide full maintenance service at site.



### Dust Collector Assessment & Repair

KIMFIL INSPECTION is our assessment focused on dust collector filter bag retainer (cage) performance. This is the biggest area for baghouse performance improvement based on our data. Every assessment includes a lab test of the bag to determine suitability for purpose. Our expert technicians will recommend a full set of corrective action, if needed, and make minor repairs if part are available. We carry a full assortments of high quality filter media and related hardware for all of our dust collection systems.



### Recondition Mechanical Seal

Mechanical seals are subject to wear caused by their operating principle. The amount of damage essentially depends on the individual operating conditions. In many cases mechanical seals may be reconditioned by professional work into a conditional as good as new. Due to prior damage analysis unfavourable operating conditions will be recognized. On request qualified modifications on the seal may be recommended to extend the operating life time.



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## ENGINEERING SERVICE

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### Installation of expansion joints and pipes.

We have experts who are reliable and experienced in pipe installation, expansion joint fabric, expansion joint metal and expansion joint rubber. able to work at heights and other conditions.



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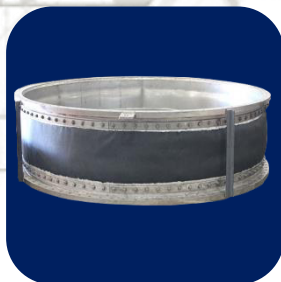
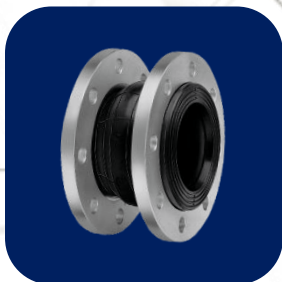
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***Insan Mandiri***

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