



Pars Regulator Corp.

Since 1988

Strainers



www.parsregulator.com
info@parsregulator.com



About PR

Pars Regulator Corp. PJS (Private Joint Stock) is a knowledge-based manufacturing, supplier and official agent since 1988 in Iran. Head office located in Tehran, the capital of the country. PR (abbreviation of the Pars Regulator) has eight production, office and warehouse facilities with a total area of 45,000 sq. meters of land.

Originally PR Corp. manufactured LPG regulators, later it became a manufacturer of strainers and filters, instrumentation tube fittings, forged steel pipe fittings, high pressure valves and manifolds, vessels, specialty fabricated products and etc. Due to wide range of PR products and for more information, please check the last page of this catalog or contact us.

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Our foreign commercial department is active in import and export of many kinds of filters, tubes, pipes, industrial equipment and machines and various other industrial products. We currently have exclusive agency / agreements with the Italian Loxeal Co., Taiwan Grace Filter Co., SIP Stard Valve Co. and other famous brands.

PR has been serving customers in local markets, European Countries, Turkey, Bangladesh, Algeria, Qatar, Iraq, Oman, Sudan and other countries around the world.

PR is the member of "Approved Vendor Lists" (AVL) of major national and private Iranian oil and gas refineries, petrochemical, steel mills and power plants such as MOP (the IR Ministry of Petroleum), NPC (National Petrochemical Co.), NIGC (National Iranian Gas Co.), Mapna Group PJS Co., POGC (Pars Oil & Gas Co.), NIOPDC (National Iranian Oil Products Distribution Co.), MSC (Esfahan Mobarakeh Steel Co.) and so on. We have a considerable customer base with thousands successful projects from big to small, in a verity of industries such as petrochemical facilities, oil & gas refineries, EPC companies, power plants, steel mills, automotive and others.

We buy bar stock and other required raw materials direct from the qualified mills, then in our own manufacturing facilities we control, cut, forge, machine, sandblast, electro polish, weld, assemble and test among other processes. That's why we can control the maximum number of variables to ensure product quality. High quality according to international standards is our permanent commitment.

We have an R&D department includes many experienced engineers and in all have more than 300 employees.

We have succeeded in capturing our customers' faith and trust by being one of the bests in quality, reliability, customer satisfaction and stellar after-sales services with competitive prices.

Our values are the base of our culture. They shape what we do, guide our behavior and interactions with our colleagues, clients, partners, society and nature as well. In brief our values are commitment, respect and care, optimizing and to be dynamic.



PR Co. history

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- 1988 Pars Regulator Co. established
- 1990 LP Gas regulators produced in Malard factory, 300,000pcs per year
- 1995 ISO 9001 certificate of registration
- 1996 Engineering and design department established
- 1998 Instrumentation tube fittings produced
- 2001 Forged pipe fittings, flanges and other custom and special products produce in Malard factory
- 2002 HSE certificate of registration
- 2006 High pressure small valves produced in Malard factory
- 2007 Needle valves and manifolds produced in Abbas Abad factory
- 2008 Filter cartridges produced in Malard factory
- 2010 Pressure vessels, skids, pots, sampling systems and other piping equipment produced in Malard factory
- 2011 Filter packages produced in Malard factory
- 2014 Strainers produced in Malard factory
- 2015 CE certificate of registration
- 2016 All production facilities moved from Malard to Safadasht industrial city for development
- 2021
 - Always at your service
 - Thousands strainers, industrial filters and filter packages
 - Three milion pcs regulators per year (more than 2 milion for export)
 - Hundred of tones industrial valves and fittings
 - Various types of industrial custom products



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1.1.7- STRAINER

AEVAZ TECHNIC
ARMSTRONG
BEKO
DAMAVAND FELEZ
EBUTECH
FARAKARAN TOLID KAHANGAN
INTERMETAL 2000
JFC
KARAVARAN BOKHAR
NAGHSH JAHAN PALAYEH
PARS REGULATOR
PLENTY
SANAYE HAFTOME TIR ESFAHAN
SE CHANG
SPIRAX SARCO
YAZD FILTER

PGPIC

MECHANICAL VENDOR LIST / REV: 7
34 PAGES

PAGE 23

ODCC

<p>NIOEC VLS</p> <p>PARS PIGMENT & CATALYST INDUSTRIES CO.,LTD.</p>	<p>BRAN</p>	<p>9.12.11 MEROX (LPG KEROSENE) CATALYST 9.12.17 DESULPHURIZATION GUARD</p>
<p>PARS REGULATOR</p>	<p>BRAN</p>	<p>1.6.2 CARTRIDGE FILTERS 3.3.1 NEEDLE, FIRESAFE BALL, MANIFOLD VALVES 3.40 INST. TUBE & FITTING 4.6.1 STRAINER & FILTER</p>
<p>PARS SANAAT</p>	<p>BRAN</p>	<p>1.1.8 STORAGE TANK(FLOATING & FIXED ROOF) & MISC ATMOSPHERIC TANKS</p>

NIOEC NIOEC-VLS-00-02(0) 2016
PAGE 333

ردیف	نام شرکت سازنده	نوع پوشش	تاریخ ساخت	نوع مصالح	تاریخ نصب	شرح وضعیت	تاریخ بازدید	نام بازدیدگر
۱۲۱۸	پارس گستر	۱-۱-۱۳۸۵	۱۳۸۵	سنگ	۱۳۸۵	<p>در این مورد به دلیل عدم دسترسی به محل، نتوانستیم از نزدیک مشاهده کنیم. اما بر اساس گزارش کارفرما، وضعیت کلی پوشش در این قسمت قابل قبول است. با این حال، در برخی نقاط، ترک‌های ریز و خراش‌های سطحی مشاهده شد که نیاز به تعمیرات جزئی دارد.</p> <p>تاریخ بازدید: ۱۳۸۵/۰۵/۰۵</p> <p>نام بازدیدگر: مهندس ...</p>	۱۳۸۵	...

*For more information please do not hesitate to contact PR.

SAZEH-JAHANPARS

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LPC

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ODCC

	Gas Oil Hydrocracking Plant Project PG No.: T-1000-PH-PUR-0000-A Rev.: 0 Date: 25 Sep 17
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PURCHASE ORDER

WUOLB Address : Registered No: Cofc No: Account: Tel: Fax:	Port Regulator Co. 3rd Floor, No. 86, Karadeniz St., Samsun, Turkey TR08 5501011194 4111199450 0099 21 83107161 0099 21 83813140
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P.O. number must be shown on all shipping packages, shipping documents, notices and correspondence in connection with this PURCHASE ORDER.

This PURCHASE ORDER is subject to the descriptions, terms, conditions and instructions specified hereunder and statements hereto, if any.

SUBJECT: *Ironworks*

This PURCHASE ORDER, together with PURCHASING GENERAL TERMS AND CONDITIONS and all its attachments shall be referred to as "CONTRACT NO. T-1000-PH-PUR-0000-A".

The purchase order is hereby confirmed by the customer contained in the PURCHASE ORDER, the parties are agreed upon in the order of following provisions. The first named being paramount:

- PURCHASE ORDER
- PURCHASING GENERAL TERMS AND CONDITIONS
- ATTACHMENTS TO PURCHASE ORDER

BUYER'S ACCEPTANCE:

We acknowledge receipt of copy to authorized representative(s) and Registered Office (see below for details) of the contract.

Name / Title: _____
 We, _____ Managing Director

(Signature)

Mr. H. Madenler / Chairman of Board

Date & Sign: _____
 Place: _____

SUPPLIER:

Ođ Design and Construction Co. (OODCC)
 No. 53, East St., Bahar Etiler Kıs., Ankara,
 Turkey
 Name / Title: _____
 Mr. A.S. Madenler / Managing Director

(Signature)

Mr. M. Zeynep / Member of Board

Date & Sign: _____
 Place: _____

Page 2 of 2

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GCC

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NDEC

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قرارداد خرید کالا

STRAINER

ایماین

شرکت مهندسی مشاور جگانش

۵

شرکت پارس رگولاتور

پروژه تامینیه گازوئیل پالایشگاه اصفهان

SHDACCANCONTP09000

شماره درخواست خرید : NR-198-1569-AI

قرارداد شماره : PO-198-1569-AI

خرید ماه ۱۳۹۸

جگانش

پارس رگولاتور

Chagalesh

استالت تون
Ghehart Refinement Co.



شماره معاملات: ۷۰۵۵۵
تاریخ: ۱۳۸۵

نام: _____
تلفن: _____
پست: _____

جناب آقای مهندس محسن حسینی روحانی
مدیر عامل محترم شرکت پارس و آراکو

موضوع: قرارداد خرید و تامین $ATXPC-000001 \rightarrow PO-48-091-00$ (موضوع قرارداد)

مقدمه:
این قرارداد به شرح ذیل منعقد گردید:

۱- طرفین قرارداد عبارتند از: **شرکت پارس و آراکو** (طرف اول) و **شرکت استالت تون** (طرف دوم).

۲- موضوع قرارداد: **تأمین و خرید مواد اولیه** (موضوع قرارداد) که در پیوسته شماره یک این قرارداد به تفصیل آمده است.

۳- مدت قرارداد: **این قرارداد از تاریخ ۱۳۸۵/۰۱/۰۱ تا ۱۳۸۵/۰۳/۳۱ به مدت ۳ ماه اعتبار دارد.**

۴- نحوه پرداخت: **پرداخت به صورت نقدی و به حساب شرکت پارس و آراکو.**

۵- این قرارداد در ۵ ماده و ۱ پیوسته تنظیم گردید.

این قرارداد در ۲ نسخه تنظیم گردید که هر یک دارای اعتبار است.

مهر و امضاء طرفین:

شرکت پارس و آراکو
مدیر عامل: _____

شرکت استالت تون
مدیر عامل: _____

NPC - PKC


 وزارت بهداشت، درمان و آموزش پزشکی
 مرکز تحقیقات و آموزش بیماری‌های عفونی
 (پارسی)

تاریخ: ۱۳۹۸/۰۵/۰۵
 شماره: ۱۹۸۸/۰۵/۰۵
 موضوع:

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Certifications & acknowledgements

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ISO 9001:2015



HSE



Daneshbonyan



AORC



BGRC



SIPIEM



NIGCENG



BAORCO



JPC



*For more information please do not hesitate to contact PR.

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General description

Strainers are important mechanical components of piping systems that mechanically remove unwanted particles from a fluid flow by using punched plate, perforated sheet, metal wire mesh (screen mesh), or a combination of them. Punched plates are produced by making a specific number of holes on steel plates. The material, thickness, and open area can be adjusted according to the project specifications. Basically, punched plates are used as pre-filtration and removal of large particles in fluid flow. For high-pressure lines or high-viscosity fluids, using punched plate without screen mesh is recommended.

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Pars Regulator (PR) Co. offers all types of strainers as a pre-filtration in separation processes, extend the lifetime of main equipment. Therefore, while our strainers remain a relatively low-cost item, when used properly, the protection that they provide the mechanical equipment such as pumps, compressors, turbines, meters, instruments, gauges, valves, heat exchangers, condensers, steam traps, spray nozzles, burner nozzles, sprinkler heads and others are very valuable and cost-effective. PR Co.'s temporary strainers are used during system start-up and flushing which may be placed upstream of pumps to protect them from construction-remained debris that may have been left in the pipelines.

PR Co. has got an exclusive proprietary software that can calculate rates of open area, filtration area ratio and initial pressure drop for different types of strainers with any design conditions. All parts of PR strainers ever produced are fully traceable. Spare parts available upon request.

- | | | | | | |
|-------------------------|-------------------------|-----------------------|--------------------------|-------------------------|---------------------|
| 1 - Y strainer (casted) | 6 - Tee strainer | 11 - Filter cartridge | 16 - Tube / U-Tube | 21 - 90° elbow | 26 - WN Flange |
| 2 - Y strainer (forged) | 7 - Pressure vessel | 12 - Safety valve | 17 - Gate valve | 22 - Equal tee | 27 - Forged elbow |
| 3 - Basket strainer | 8 - Demister pad | 13 - Check valve | 18 - Block & bleed valve | 23 - Linepipe | 28 - Slip-on flange |
| 4 - Bucket strainer | 9 - BL flange | 14 - Globe valve | 19 - 3 - pc ball valve | 24 - Reducer | |
| 5 - Conical strainer | 10 - Thermo. steam trap | 15 - Heat exchanger | 20 - Spectacle BL Flange | 25 - Thermo. steam trap | |

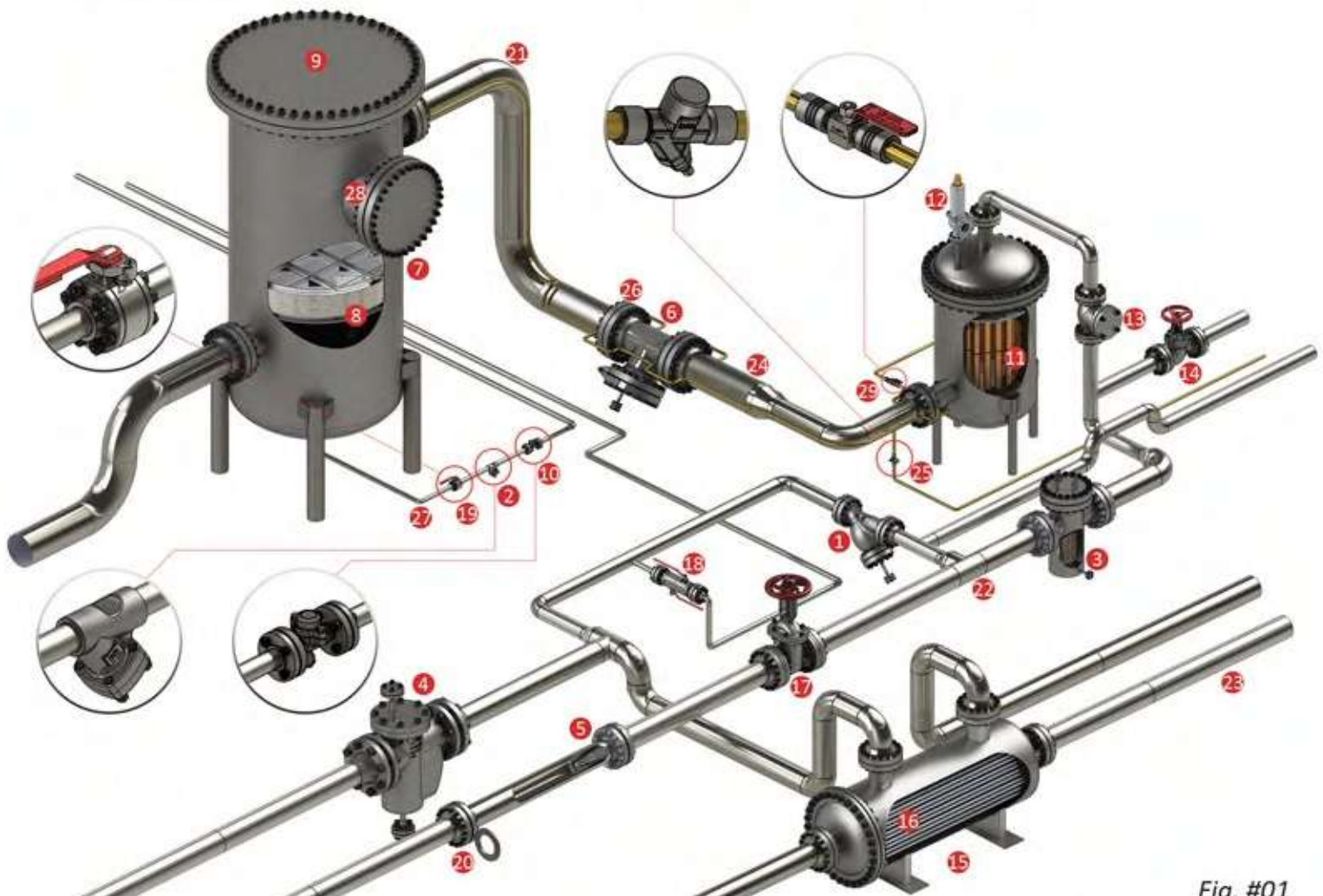







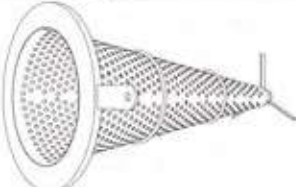


Fig. #01

Types of PR strainers

Strainers Types <i>Flow Direction</i> →			Size Range	Body Material	End Connection	Pressure Rating
Y Type	Forged		1/2" to 2"	<ul style="list-style-type: none"> • ASTM A216 WCB • ASTM A105 • ASTM A234 WPB • ASTM A234 WP9 • ASTM A234 WP11 • ASTM A106 Gr. B • API 5L PSL1 / PSL2 • etc. 		
	Casted		2" to 12"			
	Fabricated (Pipe)		2" to 24"			
Tee Type			2" to 48"	<ul style="list-style-type: none"> • ASTM A352 LCB / LCC / LC1 / LC2 LC3 / LC4 / LC9 • ASTM A350 / LF2 / LF3 • ASTM A420 WPL6 • ASTM A333 Gr. 6 • ASTM A516 Gr. 60 / Gr. 70 • etc. 	Threaded, Flanged, Weld Ends & Special Ends	Class 150 Up to #2,500
Simplex Type	Basket		3" to 42"	<ul style="list-style-type: none"> • ASTM A351 CF3 / CF8 / CF3M / CF8M / CF8C • ASTM A182 F5 / F6A / F11 / F22 / F44 F51 / F53 / F55 F304L / F304 F316L / F316 F320 / F321 / F347 • ASTM A403 WP304L / WP316L • ASTM A312 Gr. 304L / Gr. 316L Gr. 317 / Gr. 321 • ASTM A240 • ASTM A387 Gr. 9 • etc. 		
	Bucket		3" to 12"			
Duplex Type			3" to 42"	<ul style="list-style-type: none"> Special • Al-Bronze • Cu-Ni • etc. 		
Conical Type			2" to 60"			

*PR Co. may change product types, specifications, designs, sizes and availability.

Table #01

Y type strainer (forged)

Technical details

"Y" type strainers are named due to their shapes and bodies form and normally designed for removing solids and unwanted particles from piping systems and pipelines. These Strainers be intended in systems which lower contamination load are expected.

"Y" type strainers by clearance of the fluid, improve the lifetime of valves and also protect of pumps, meters, and other similar mechanical equipment.

PR Co's Forging "Y" Type Strainers are produced by uniformity of composition and structure which due to the metallurgical recrystallisation and changed of the grain flows of the steel conforming to the shape of strainers, generally stronger and more reliable than casting "Y" type strainers particularly in terms of impact and shear strength.

Features

Protection of sensitive equipment such as compressors, pumps, valves, meters, nozzles and etc.

High resistance against impact and shear strength

Removable drain plug for easy cleaning

Great resistance against high pressure, high temperature and erosion

Capability to select of parts compatible with various fluids

Light weight

Compact design with low space for installation and operation

Easy operation and low service and maintenance costs

Applications

Input paths of rotary and instrumentation equipment

Pressurized lines and general purpose such as steam, liquid or gas

Vacuum or suction situation

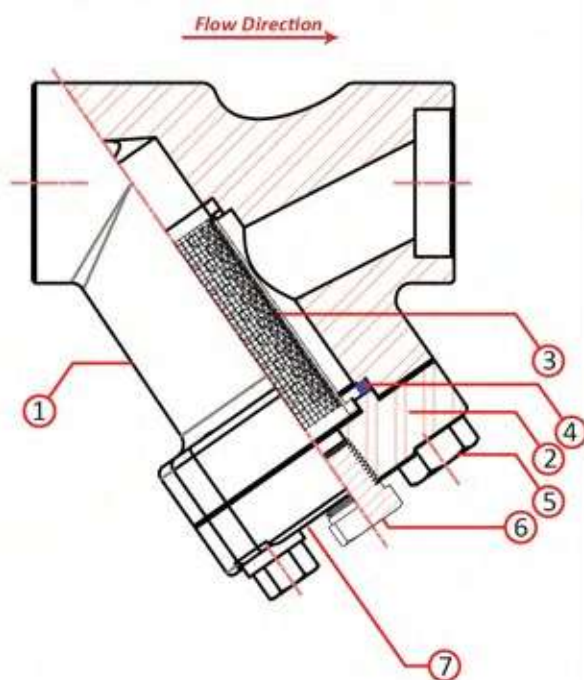


Fig. #02

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Bolt	CS, SS, etc.
6	Drain Plug (NPT)	Same as Body
7	Nameplate	Aluminium / SS

Table #02

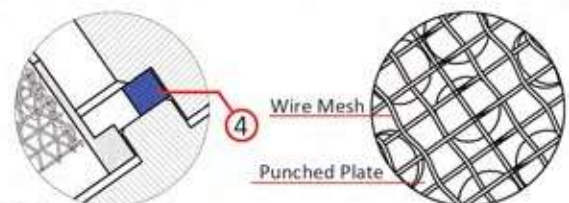


Fig. #03

Y type strainer (forged)

Description

Standards: ASME B31.3, ANSI / ASME: B16.10, B16.34, B16.11, B16.25, B31.1

End Connections / Rating: Socket Weld according to ANSI B16.11 / 800#, 1500#

Butt Weld according to ANSI B16.25, NPT threaded acc. to B1.20.1, Flanged acc. to B16.5

Vent / Drain type: Flange, Valve, Screw, Plug, etc.

Certification: EN10204 3.1.B, NACE MR0175

Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #04

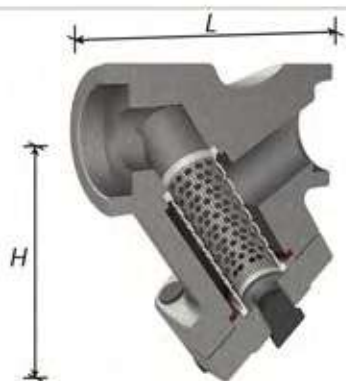


Fig. #05



Fig. #06

"Y" Strainers (Forged) – SW, BW, Thrd.

Nominal Dia. (inch)	800#		
	L(mm)	H(mm)	OH(mm)
1/2	120	60	80
3/4	120	75	110
1	120	93	150
1 1/2	140	120	200
2	170	150	280

"Y" Strainers (Forged) – SW, BW, Thrd.

Nominal Dia. (inch)	1500#		
	L(mm)	H(mm)	OH(mm)
1/2	120	75	140
3/4	120	93	150
1	140	120	195
1 1/2	170	145	205
2	170	160	280

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

Table #03

*PR Co. may change product types, specifications, designs, sizes and availability.

Y type strainer (casted)

Technical details

"Y" type strainers are named due to their shapes and bodies form and normally are designed for removing solids and unwanted particles from piping systems and pipelines. These strainers be intended in systems which lower contamination load are expected.

"Y" type strainers by clearance of the fluid, improve the lifetime of valves and also protect of pumps, meters, and other similar mechanical equipment.

PR Co.'s by carefully choosing alloys and applying proven methods of heat treatment, produced casting "Y" type strainers with high quality and strength, because forging process for large and complex strainers is not suitable.

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Features

Protection of sensitive equipment such as pumps, valves, meters, nozzles and etc.

Resistance against high pressure and high temperature

Large range of alloy choices and capability to select of components compatible with various fluids

High quality product with mechanical properties

Compact design with low space for installation and operation

Easy operation and low service and maintenance costs

Relatively light weight

Applications

Input paths of rotary and instrumentation equipment

Pressurized lines and general purpose such as steam, liquid or gas

Vacuum or suction situation

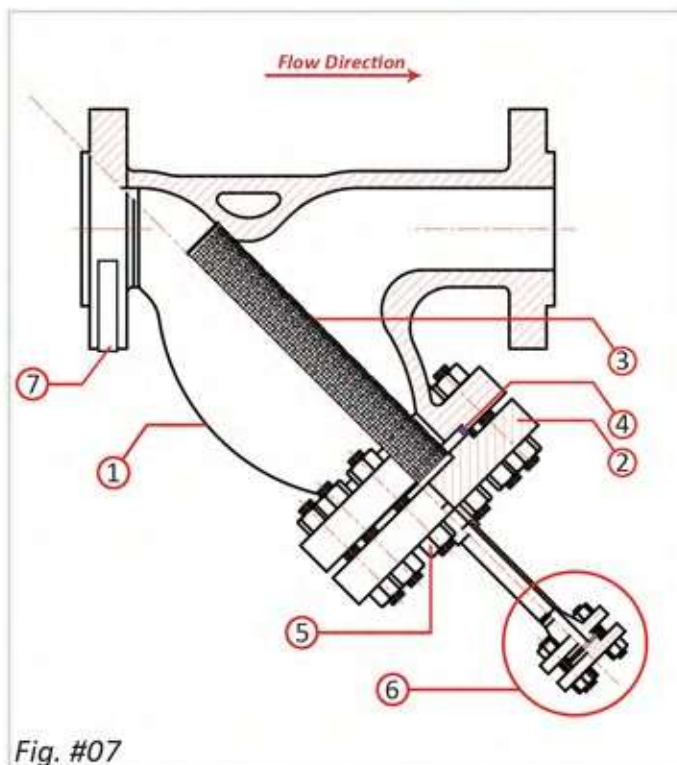


Fig. #07

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS

Table #04

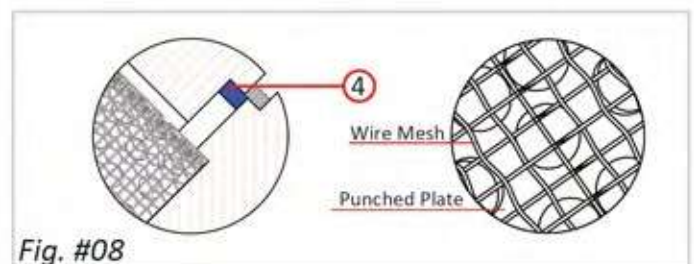


Fig. #08

Y type strainer (casted)

Description

Standards: ASME B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25

End Connections / Rating:

Flanged according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#

Butt Weld according to ANSI B16.25

Vent / Drain type: Flange, Valve, Screw, Plug, etc.

Certification: EN10204 3.1.B, 3.1.C, NACE MR01-75

Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request

13



Fig. #09



Fig. #10



Fig. #11

"Y" Type Strainers (Casted) – RF / RTJ / BW

Nominal Dia. (inch)	150#			300#			600#				900#				1500#			
	L (mm)	H (mm)	OH (mm)	L (mm)	H (mm)	OH (mm)	L (mm)		H (mm)	OH (mm)	L (mm)		H (mm)	OH (mm)	L (mm)		H (mm)	OH (mm)
							RF/BW	RTJ			RF/BW	RTJ			RF/BW	RTJ		
2	203	210	290	267	215	310	292	295	230	310	368	371	270	440	368	371	270	440
3	216	220	360	318	270	390	356	260	260	340	470	473	320	490	470	473	320	490
4	241	255	385	356	325	465	432	310	310	450	546	549	385	610	546	549	385	610
6	292	310	450	445	440	670	559	460	460	540	559	711	520	780	559	711	520	780
8	356	340	480	559	500	790	660	650	650	920	711	842	670	1000	711	842	670	1000
10	406	410	620	622	538	820	787	600	600	1000	787	842	750	1200	864	1000	790	1180
12	495	470	720	711	699	1150	711	720	720	1200	968	986	850	1300	991	1146	800	1300

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

Table #05

*PR Co. may change product types, specifications, designs, sizes and availability.

Y Type fabricated (pipe)

Technical details

"Y" type strainers are named due to their shapes and bodies form and normally are designed for removing solids and unwanted particles from piping systems and pipelines. These strainers be intended in systems which lower contamination load are expected.

"Y" type strainers by clearance of the fluid, improve the lifetime of valves and also protect of pumps, meters, and other similar mechanical equipment.

PR Co.'s fabricated "Y" type strainers are generally fabricated from pipe and produced in a wide variety of sizes and materials to fit most pipeline straining requirements according to exacting standards and project specification.

Features

Protection of sensitive equipment such as valves, pumps, meters and etc.

Resistance against high pressure and high temperature

Capability to select of components compatible with various fluids

High quality product with mechanical properties

Compact design with low space for installation and operation

Easy operation and low service and maintenance costs

Applications

Input paths of rotary and instrumentation equipment

Pressurized lines and general purpose such as steam, liquid or gas

Vacuum or suction situation

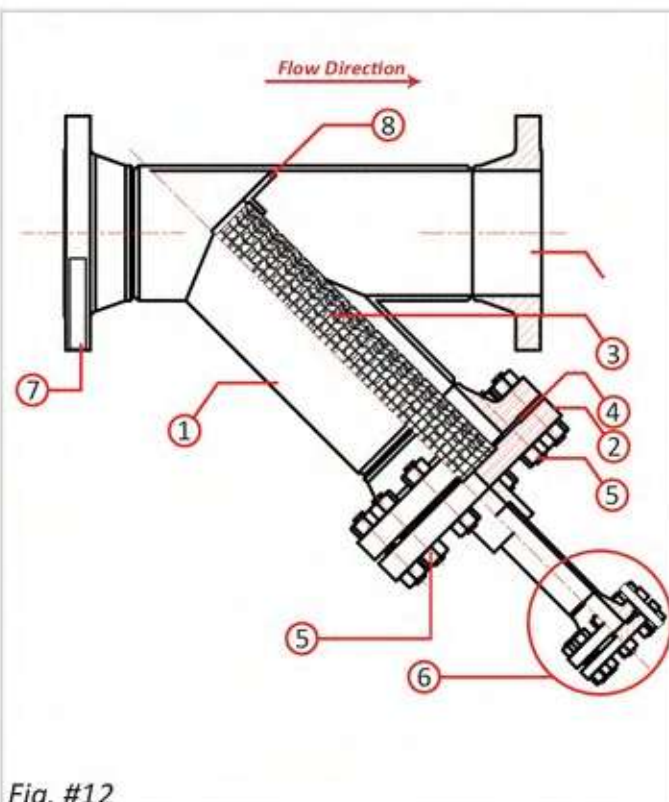


Fig. #12

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS
8	Stopper	Same as Body

Table #06

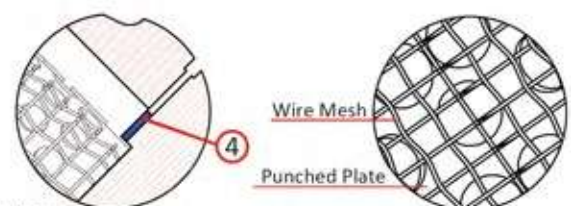


Fig. #13

Y Type fabricated (pipe)

Description

Standards: ASME Section VIII Division I, ASME B31.3, ANSI / ASME: B16.10, B16.34, B16.11, B16.25, B31.4

End Connections / Rating: Socket Weld according to ANSI B16.11 / 150#, 300#, 400#, 600#, 900#, 1500#

Butt Weld according to ANSI B16.25, NPT threaded acc. to B1.20.1, Flanged acc. to B16.5

Vent / Drain type: Flange, Valve, Screw, Plug, etc.

Certification: EN10204 3.1.B, NACE MR0175

Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #14



Fig. #15



Fig. #16

15

Y Type Fabricated (Pipe)

Nominal Dia. (inch)	150#, RF (WN)		300#, RF (WN)		BW		OH (mm)
	L(mm)	H(mm)	L(mm)	H(mm)	L(mm)	H(mm)	
2	417	210	430	210	290	210	Depends on filtration area
3	520	270	539	270	380	270	
4	572	300	591	300	420	300	
6	698	420	717	420	520	420	
8	813	500	832	500	610	500	
10	943	560	975	560	740	560	
12	1049	670	1080	670	820	670	
14	1134	730	1166	730	860	730	
16	1234	850	1272	850	980	850	
18	1309	940	1347	940	1030	940	
20	1409	1000	1444	1000	1120	1000	
24	1625	1180	1657	1180	1320	1180	

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

Table #07

*PR Co. may change product types, specifications, designs, sizes and availability.

Tee type strainers (straight flow – W screen)

Technical details

PR Co.'s tee type strainers are designed for removing unwanted particles from piping systems and pipelines and due to their design are used in applications which space is restricted, such as where a compact accessible strainer is needed for protection of pumps, valves, turbines and any other equipment.

PR Co.'s straight flow (standard) tee type strainers are fabricated according to the highest industrial standards from ANSI tee fittings and flanges. The large screen open area of tee type strainers, ensures an efficient filtering action with a low pressure drop.

PR Co.'s Basket configuration in these strainers are produced in two type W / V type screen which depends on % ratio requested by customer. W type screen has got a higher filtration surface area than V type screen.

Features

Protection of sensitive equipment during commissioning processes such as pumps, compressors, heat exchangers and instrumentation

High holding capacity of particle

Low pressure drops

Resistance against high pressure and high temperature

Capability to select various of components compatible with various fluids

Compact design with low space for installation and operation

Vertical or horizontal installations

Easy operation and low service and maintenance costs

Applications

Input paths of rotary and instrumentation equipment

Pressurized lines and general purpose such as steam, liquid or gas

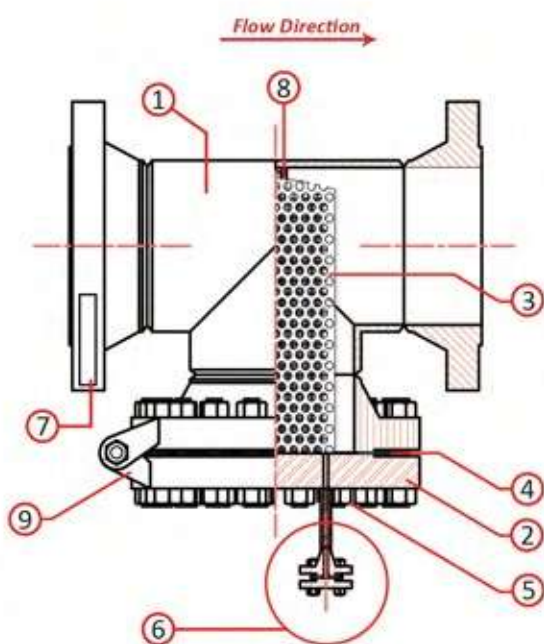


Fig. #17

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS
8	Guide Rods	Same as Body
9	Hinge	Same as Body

Table #08

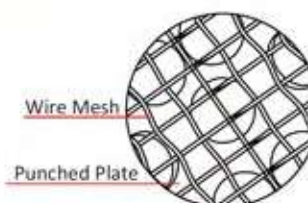


Fig. #18

Tee type strainers (straight flow – W screen)

Description

Standards: ASME Sec. VIII Div. I, B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25
 End Connections / Rating: Flanged according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#
 Butt Weld according to ANSI B16.25, Vent / Drain type: Flange, Valve, Screw, Plug, etc.
 Certification: EN10204 3.1.B, 3.1.C, NACE MR0175
 Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #19



Fig. #20



Fig. #21

Tee type strainers (straight Flow – W screen) - RF / BW

Nominal Dia. (inch)	150#				300#				600#			
	L (mm)		H (mm)	OH (mm)	L (mm)		H (mm)	OH (mm)	L (mm)		H (mm)	OH (mm)
	BW	RF			BW	RF			BW	RF		
2	127	254	148	170	127	267	159	188	127	267	159	188
3	172	312	182	220	172	331	197	238	172	331	197	238
4	210	363	207	250	210	382	225	275	210	382	225	275
6	286	464	260	330	286	483	280	355	286	483	280	355
8	356	559	310	360	356	578	333	432	356	578	333	432
10	432	635	351	470	432	667	384	531	432	667	384	531
12	508	737	403	550	508	768	438	587	508	768	438	587
14	560	814	445	640	560	846	480	655	560	846	480	655
16	610	864	472	670	610	902	511	714	610	902	511	714
18	686	966	526	750	686	1004	565	790	686	1004	565	790
20	762	1051	572	820	762	1086	609	859	762	1086	609	859
24	846	1169	635	930	846	1201	673	973	846	1201	673	973
30	1118	1379	744	1065	-	-	-	-	-	-	-	-
36	1346	1619	870	1260	-	-	-	-	-	-	-	-

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

*PR Co. may change product types, specifications, designs, sizes and availability.

Table #09

Tee type strainers (straight flow – V screen)

Technical details

PR Co.'s tee type strainers are designed for removing unwanted particles from piping systems and pipelines and due to their Compact design are used in applications which space is restricted, such as where a compact accessible strainer is needed for protection of pumps, valves, turbines and any other equipment. PR Co.'s straight flow (standard) tee type strainers are fabricated according to the highest industrial standards from ANSI/ASME tee fittings and flanges. The large screen open area of tee type strainers, ensures an efficient filtering action with a low pressure drop.

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PR Co.'s Basket configuration in these strainers are produced in three (3) type W / V / Z type screen which depends on percent ratio requested by customer. V type screen has got a lower filtration surface area than W and Z type.

Features

Protection of sensitive equipment during commissioning processes such as pumps, compressors, heat exchangers and instrumentation

High holding capacity of particle

Low pressure drops

Resistance against high pressure and high temperature

Capability to select various of components compatible with various fluids

Vertical or horizontal installations

Easy operation and low service and maintenance costs

Applications

Input paths of rotary and instrumentation equipment

General purpose such as water, sea water, natural gas, chemicals, lubricating oil

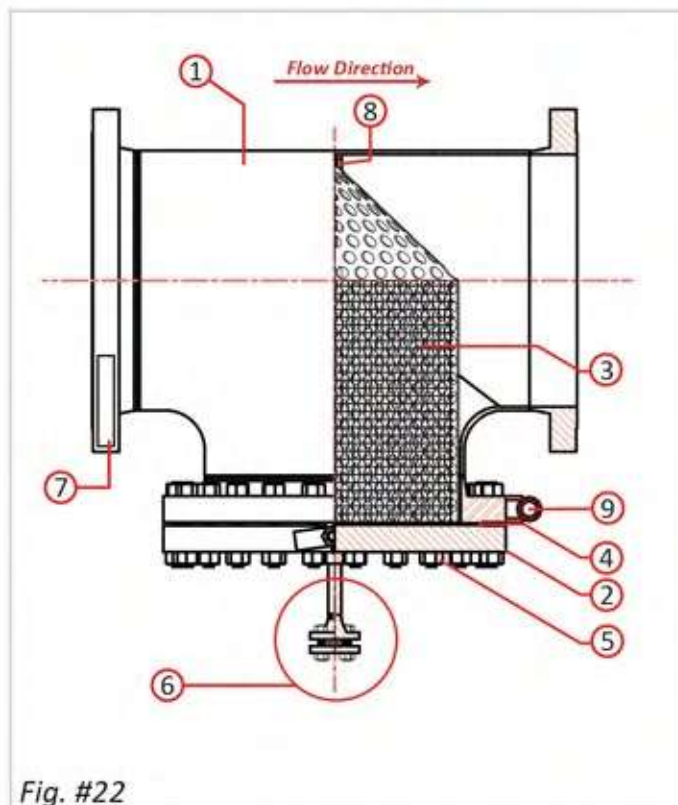


Fig. #22

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS
8	Guide Rods	Same as Body
9	Hinge	Same as Body

Table #10

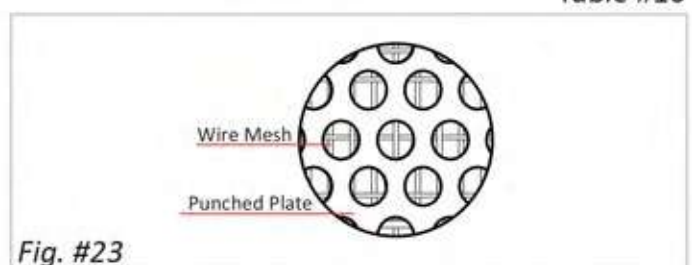


Fig. #23

Tee type strainers (straight flow – V screen)

Description

Standards: ASME Sec. VIII Div. I, B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25

End Connections / Rating: Flanged according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#

Butt Weld according to ANSI B16.25, Vent / Drain type: Flange, Valve, Screw, Plug, etc.

Certification: EN10204 3.1.B, 3.1.C, NACE MR0175

Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #24



Fig. #25

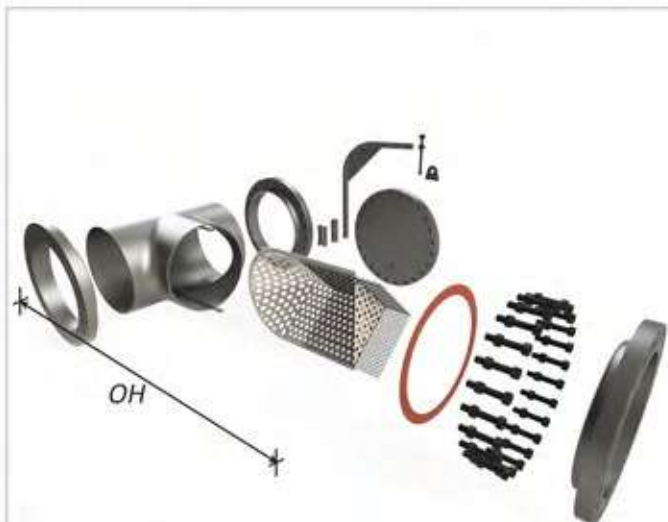


Fig. #26

Tee type strainers (straight flow – V screen) - RF / BW

Nominal Dia. (inch)	150#				300#				600#			
	L (mm)		H (mm)	OH (mm)	L (mm)		H (mm)	OH (mm)	L (mm)		H (mm)	OH (mm)
	BW	RF			BW	RF			BW	RF		
2	128	256	148	170	128	268	157	188	128	288	176	188
3	172	312	181	220	172	332	195	238	172	352	215	238
4	210	364	207	250	210	382	223	275	210	428	259	275
6	286	464	258	330	286	484	270	355	286	534	322	355
8	356	560	309	360	356	580	332	432	356	636	381	432
10	432	636	349	470	432	668	382	531	432	750	446	531
12	508	738	401	550	508	770	436	587	508	834	491	587
14	558	812	441	640	558	844	476	655	558	902	528	655
16	610	864	469	670	610	902	509	714	610	980	573	714
18	686	966	524	750	686	1004	563	790	686	1068	624	790
20	762	1052	569	820	762	1086	607	859	762	1156	674	859
24	846	1170	633	930	846	1202	671	973	864	1284	751	973
30	1118	1392	771	1065	-	-	-	-	-	-	-	-
36	1346	1662	922	1260	-	-	-	-	-	-	-	-

Notes:

- PR Co. can produce or supply other specifications on request.

- All dimensions are approximate.

- All strainers should be installed as close as possible to the equipment which should be protected.

Table #11

*PR Co. may change product types, specifications, designs, sizes and availability.

Tee type strainers (straight flow – Z screen)

Technical details

PR Co.'s tee type strainers are designed for removing unwanted particles from piping systems and pipelines and due to their Compact design are used in applications which space is restricted, such as where a compact accessible strainer is needed for protection of pumps, valves, turbines and any other equipment. PR Co.'s straight flow (standard) tee type strainers are fabricated according to the highest industrial standards from ANSI/ASME tee fittings and flanges. The large screen open area of tee type strainers, ensures an efficient filtering action with a low pressure drop.

20

PR Co.'s Basket configuration in these strainers are produced in three (3) type W / V / Z type screen which depends on percent ratio requested by customer. V type screen has got a lower filtration surface area than W and Z type.

Features

Protection of sensitive equipment during commissioning processes such as pumps, compressors, heat exchangers and instrumentation

High holding capacity of particle

Low pressure drops

Resistance against high pressure and high temperature

Capability to select various of components compatible with various fluids

Vertical or horizontal installations

Easy operation and low service and maintenance costs

Applications

Input paths of rotary and instrumentation equipment

General purpose such as water, sea water, natural gas, chemicals, lubricating oil

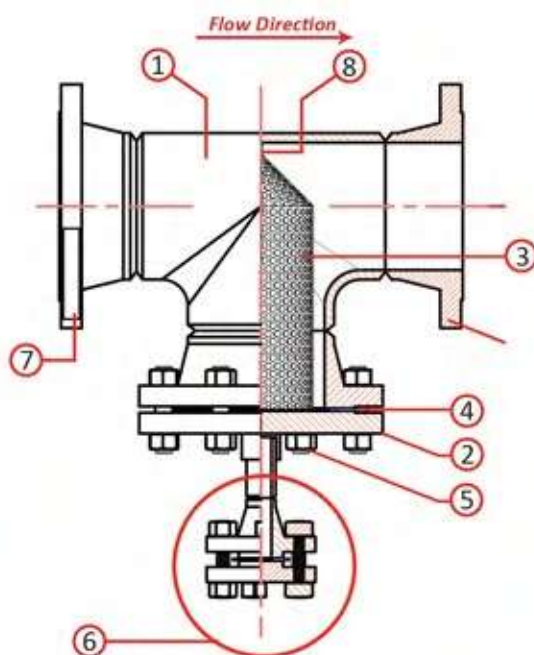


Fig. #27

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS
8	Guide Rods	Same as Body
9	Hinge	Same as Body

Table #12

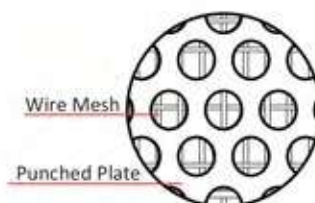


Fig. #28

Tee type strainers (straight flow – Z screen)

Description

Standards: ASME Sec. VIII Div. I, B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25

End Connections / Rating: Flanged according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#

Butt Weld according to ANSI B16.25, Vent / Drain type: Flange, Valve, Screw, Plug, etc.

Certification: EN10204 3.1.B, 3.1.C, NACE MR0175

Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #29



Fig. #30



Fig. #31

21

Tee type strainers (straight flow – Z screen) - RF / BW

Nominal Dia. (inch)	150#				300#				600#			
	L (mm)		H	OH	L (mm)		H	OH	L (mm)		H	OH
	BW	RF	(mm)	(mm)	BW	RF	(mm)	(mm)	BW	RF	(mm)	(mm)
2	128	256	148	170	128	268	157	188	128	288	176	188
3	172	312	181	220	172	332	195	238	172	352	215	238
4	210	364	207	250	210	382	223	275	210	428	259	275
6	286	464	258	330	286	484	270	355	286	534	322	355
8	356	560	309	360	356	580	332	432	356	636	381	432
10	432	636	349	470	432	668	382	531	432	750	446	531
12	508	738	401	550	508	770	436	587	508	834	491	587

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

Table #13

*PR Co. may change product types, specifications, designs, sizes and availability.

Tee type strainers (angle flow)

Technical details

PR Co.'s tee type strainers are designed for removing unwanted particles from piping systems and pipelines and due to their Compact design are used in applications which space is restricted, such as where a compact accessible strainer is needed for protection of pumps, Valves, Turbines and any other equipment.

PR Co.'s Angle tee type strainers are similar to the standard tee strainer except that these are designed for angled flow and are installed at 90° bend piping. The cylindrical element housed in the body can be taken out to horizontal center line by removing the cover.

Features

Protection of sensitive equipment during commissioning processes such as pumps, compressors, heat exchangers and instrumentation
High holding capacity of particle
Low pressure drops
Resistance against high pressure and high temperature
Capability to select of components compatible with various fluids
Compact design with low space for installation and operation
Vertical or horizontal installations
Easy operation and low service and maintenance costs

Applications

Input paths of rotary and instrumentation equipment
General Purpose such as water, sea water, natural gas, chemicals, lubricating oil

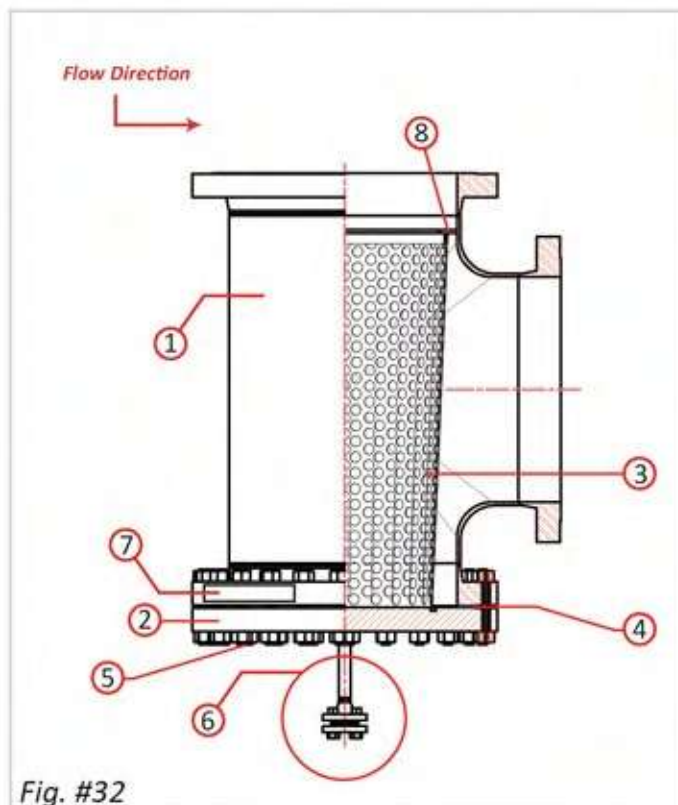


Fig. #32

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS
8	Guide Plate	Same as Body

Table #14

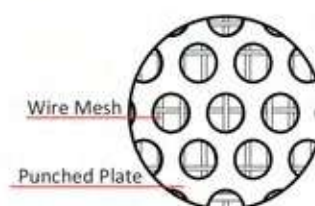


Fig. #33

Tee type strainers (angle flow)

Description

Standards: ASME Sec. VIII Div. I, B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25
 End Connections / Rating: Flanged according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#
 Butt Weld according to ANSI B16.25, Vent / Drain type: Flange, Valve, Screw, Plug, etc.
 Certification: EN 10204 3.1B, 3.1C, NACE MR0175
 Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #34



Fig. #35

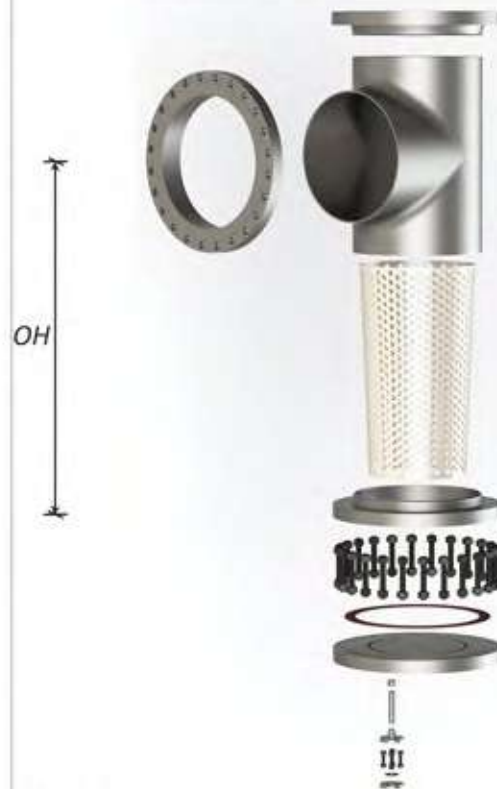


Fig. #36

Tee type strainers (angle flow) - RF / BW

Nominal Dia. (inch)	150#					300#					OH (mm)
	L1 (mm)		L2 (mm)		H (mm)	L1 (mm)		L2 (mm)		H (mm)	
	BW	RF	BW	RF		BW	RF	BW	RF		
2	64	128	128	128	276	64	134	134	134	291	500
3	86	156	156	156	336	86	166	166	166	361	671
4	105	182	182	182	389	105	191	191	191	414	783
6	143	232	232	232	490	143	242	242	242	521	1013
8	178	280	280	280	589	178	290	290	290	622	1227
10	216	318	318	318	667	216	334	334	334	716	1405
12	254	369	369	369	770	254	385	385	385	821	1634
14	279	406	406	406	847	279	422	422	422	898	1801
16	305	432	432	432	901	305	451	451	451	960	1927
18	343	483	483	483	1006	343	502	502	502	1065	2156
20	381	526	526	526	1095	381	543	543	543	1150	2351
24	432	585	585	585	1218	432	601	601	601	1272	2638
30	559	696	696	696	1467	559	769	769	769	1634	3160
36	673	831	831	831	1752	673	915	915	915	1942	3775
42	762	934	934	934	1965	749	962	962	962	2044	4263
48	889	1082	1082	1082	2272	838	1113	1113	1113	2360	4929

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.

Table #15

*PR Co. may change product types, specifications, designs, sizes and availability.

Simplex basket strainer (straight flow)

Technical details

PR Co.'s simplex basket strainers are used for removing dirt, dust, solids and unwanted particles from piping systems and pipelines, especially for applications where high flow capacity is required and larger amounts of solid particulate are expected also clean-out will be frequent. Large filtration area in these strainers helps to reduce pressure drop due to clogging.

24

Generally, basket strainers are created less pressure drop than Y strainers and normally installed in a horizontal pipeline with the cover over the basket at the top. Cleaning of these strainers are simple. Also, removing of basket strainer's bonnet flange are relatively easy and servicing is simple.

PR Co.'s straight flow basket type strainers, made of seamless or welded steel pressure pipe.

Features

Protection of sensitive equipment during commissioning such as pumps, compressors, heat exchangers and instrumentation

Continuous filtration

Large filtration area

High holding capacity of particles

Low pressure drops

Resistance against high pressure and high temperature

Capability to select of components compatible with various fluids

Easy operation and low service and maintenance costs

Applications

Fluid transmission and product lines in petrochemical, oil and gas refineries, chemical industries, power plants input paths of rotary and instrumentation equipment

Filtration of liquids, industrial water, combustion oil for boilers and etc.

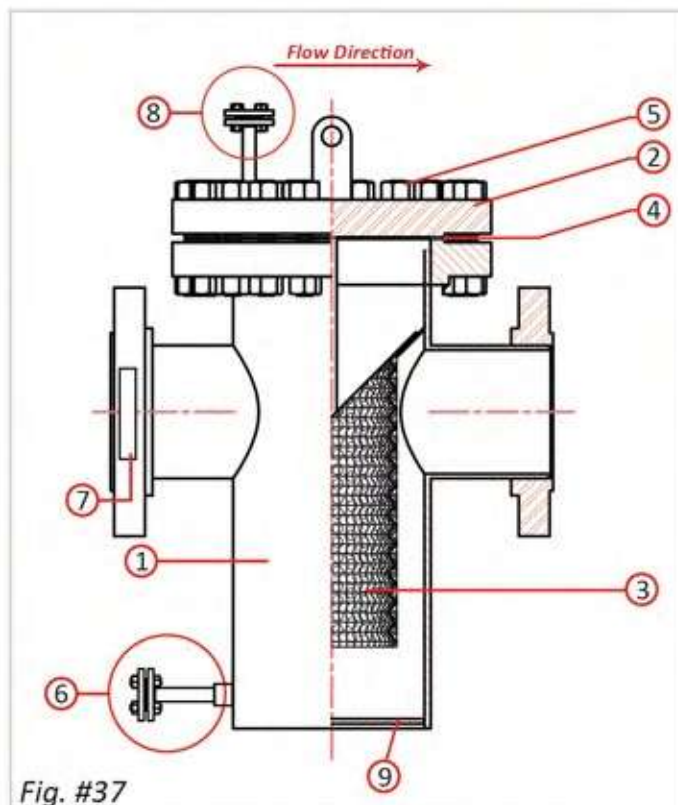


Fig. #37

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS
8	Vent	Same as Body
9	Bottom Plate	Same as Body

Table #16

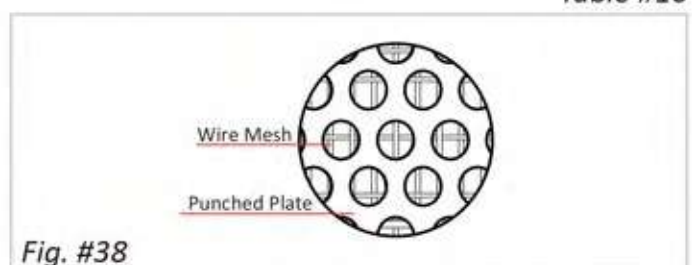


Fig. #38

Simplex basket strainer (straight flow)

Description

Standards: ASME Sec. VIII Div. I, B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25
 End Connections / Rating: Flanged according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#
 Butt Weld according to ANSI B16.25, Vent / Drain type: Flange, Valve, Screw, Plug, etc.
 Certification: EN 10204 3.1B, 3.1C, NACE MR0175
 Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #39



Fig. #40



Fig. #41

Simplex basket strainer (straight flow) - RF								
Nominal Dia. (inch)	150#				300#			
	L (mm)	H1 (mm)	H (mm)	OH (mm)	L (mm)	H1 (mm)	H (mm)	OH (mm)
6	510	555	861	1303	540	555	930	1410
8	560	680	1028	1610	600	680	1107	1735
10	610	758	1149	1835	720	758	1218	1935
12	700	906	1348	2214	780	906	1428	2214
14	750	1018	1493	2475	820	1018	1584	2615
16	800	1163	1672	2797	940	1163	1742	2900
18	900	1329	1880	3185	1040	1329	1980	3340
20	1000	1482	2157	3535	1100	1482	2229	3635
24	1150	1782	2552	4275	1250	1782	2670	4475
28	1300	2150	2871	4895	1420	2150	3010	5135
30	1400	2400	2971	5075	1520	2400	3131	5355
32	1500	2524	3160	5413	1620	2524	3276	5610
36	1650	2697	3535	6153	1670	2697	3657	6353
40	1750	2805	3890	6811	1750	2805	4015	7011

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

Table #17

*PR Co. may change product types, specifications, designs, sizes and availability.

Simplex basket strainer (angle flow)

Technical details

PR Co.'s simplex basket strainers are used for removing dirt, dust, solids and unwanted particles from piping systems and pipelines, especially for applications where high flow capacity is required and larger amounts of solid particulate are expected and clean-out will be frequent. Large filtration area in these strainers helps to reduce pressure loss due to clogging.

26

Generally, Basket strainers are created less pressure drop than Y strainers and normally installed in a horizontal pipeline with the cover over the basket at the top. Cleaning of these strainers are simple and no draining is required. Also, removing of basket strainer's Cover flanges are relatively easy and servicing is simple.

Features

Protection of sensitive equipment during commissioning such as pumps, compressors, heat exchangers and instrumentation
Continuous filtration
Large filtration area
High holding capacity of particles
Low pressure drops
Resistance against high pressure and high temperature
Capability to select various of components compatible with various fluids
Easy operation and low service and maintenance costs

Applications

Fluid transmission and product lines in petrochemical, oil and gas refineries, chemical industries, power plants
Input paths of rotary and instrumentation equipment
Filtration of liquids, industrial water, combustion oil for boilers and etc.

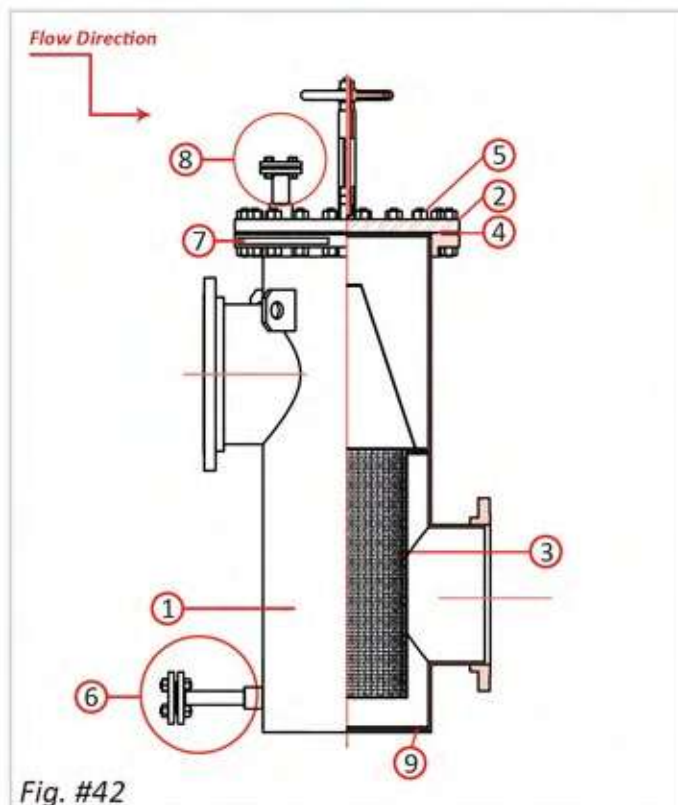


Fig. #42

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS
8	Vent	Same as Body
9	Bottom Plate	Same as Body

Table #18

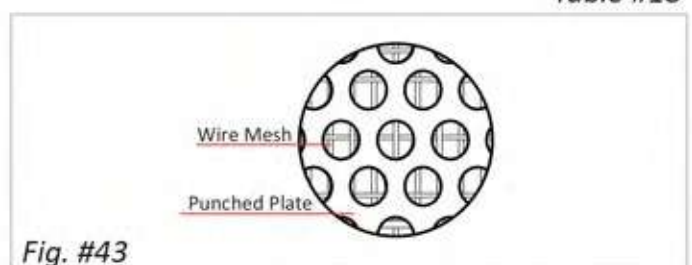


Fig. #43

Simplex basket strainer (angle flow)

Description

Standards: ASME Sec. VIII Div. I, B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25
 End Connections / Rating: Flanged according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#
 Butt Weld according to ANSI B16.25, Vent / Drain type: Flange, Valve, Screw, Plug, etc.
 Certification: EN 10204 3.1B, 3.1C, NACE MR0175
 Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #44



Fig. #45



Fig. #46

Simplex basket strainer (angle Flow) - RF

Nominal Dia. (inch)	150#				300#			
	L (mm)	H1 (mm)	H2 (mm)	OH (mm)	L (mm)	H1 (mm)	H2 (mm)	OH (mm)
6	510	555	861	1303	600	555	872	1303
8	560	681	1028	1610	680	681	1041	1610
10	610	759	1150	1832	760	759	1168	1832
12	700	906	1348	2214	840	906	1367	2214
14	750	1019	1494	2472	900	1019	1513	2472
16	800	1164	1672	2797	980	1164	1693	2797
18	900	1329	1881	3182	1050	1329	1902	3182
20	1000	1482	2150	3535	1100	1482	2179	3535
24	1150	1782	2552	4275	1182	1782	2574	4275
28	1300	2032	2871	4895	1444	2032	2885	4895
30	1400	2082	2971	5075	1546	2082	2988	5075
32	1500	2220	3160	5413	1655	2220	3178	5413
36	1650	2520	3535	6153	1818	2520	3550	6153
40	1750	2808	3890	6811	1904	2808	3914	6811

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

Table #19

*PR Co. may change product types, specifications, designs, sizes and availability.

Simplex bucket strainer

Technical details

PR Co.'s by carefully choosing alloys and applying proven methods of heat treatment, are produced Casting simplex strainers with the name of PR Co.'s simplex bucket strainers that similar to simplex basket strainers, used for removing dirt, dust, solids and unwanted particles from piping systems and pipelines, especially for applications where high flow capacity is required and larger amounts of solid particulate are expected and clean-out will be frequent. Large filtration area in these strainers helps to reduce pressure loss due to clogging.

28

Generally, Bucket strainers are created less pressure drop than Y strainers and normally installed in a horizontal pipeline with the cover over the basket at the top. Cleaning of these strainers are simple and no draining is required. Also, removing of basket strainer's Cover flanges are relatively easy and servicing is simple.

Features

Protection of sensitive equipment during commissioning such as pumps, compressors, heat exchangers and instrumentation
 Continuous filtration
 Large filtration area
 High holding capacity of particles
 Low pressure drops
 Resistance against high pressure and high temperature
 Capability to select various of components compatible with various fluids
 Easy operation and low service and maintenance costs

Applications

Fluid transmission and product lines in petrochemical, oil and gas refineries, chemical industries, power plants
 input paths of rotary and instrumentation equipment
 Filtration of liquids, industrial water, combustion oil for boilers and etc.

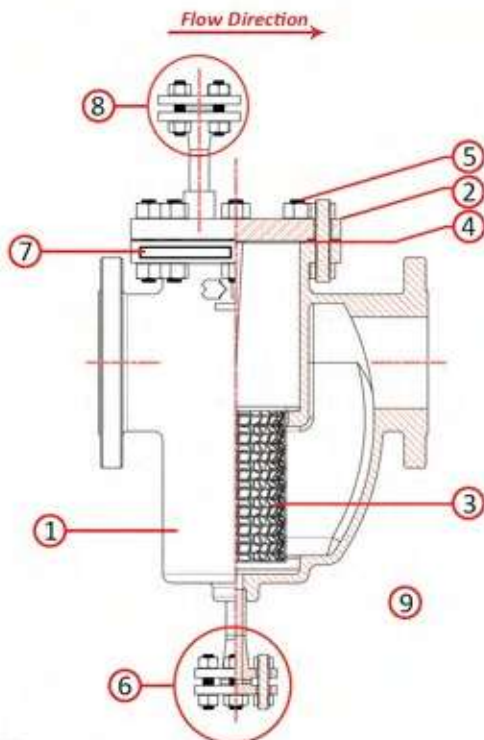


Fig. #47

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS
8	Vent	Same as Body

Table #20

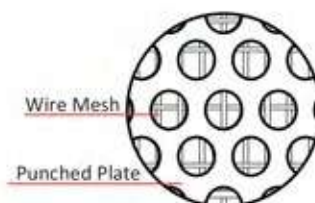


Fig. #48

Simplex bucket strainer

Description

Standards: ASME B31.1, B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25

End Connections / Rating: Flanged according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#

Butt Weld according to ANSI B16.25, Vent / Drain type: Flange, Valve, Screw, Plug, etc.

Certification: EN 10204 3.1B, 3.1C, NACE MR0175

Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #49



Fig. #50



Fig. #51

Simplex bucket strainer - RF

Nominal Dia. (inch)	L		H1 (mm)	H (mm)	OH (mm)
	150#	300#			
3	300	310	210	330	560
4	355	370	250	390	690
5	445	495	317	467	878
6	507	540	420	643	1062
8	667	700	520	854	1350
10	710	755	637	996	1715
12	850	885	778	1185	2067

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

Table #21

*PR Co. may change product types, specifications, designs, sizes and availability.

Duplex strainers with 3-way ball valves

Technical details

Duplex strainers are used for removing dirt, dust, solids and unwanted particles from piping systems and pipelines for applications which continuous operation processes is required and also for the lines cannot be shut down for cleanout or systems that must keep the fluid flowing, such as fuel supply lines and service lines that by switching the first or second passage to the other, the screen can be washed without stopping the fluid flow.

30

PR Co.'s duplex strainers operate continuously and feature two basket housings connected by two 3-way ball valves that when the basket in the first housing becomes full, the flow is switched to the other (second) strainer basket and the first basket is removed, cleaned and replaced. Housings in these strainers made of seamless or welded steel pressure pipe.

Features

Protection of sensitive equipment during commissioning such as pumps, compressors, heat exchangers and instrumentation
 Continuous filtration (permanent)
 Large filtration area
 High holding capacity of particles
 Low pressure drops
 Resistance against high pressure and high temperature
 Capability to select of components compatible with various fluids
 Easy operation and low service and maintenance costs

Applications

Continuous operation processes or Continuously running chemical operations
 Fluid transmission and product lines in petrochemical, oil and gas refineries, chemical industries, power plants
 Filtration of Fuel oil for industrial, cooling towers, industrial water intakes, marine oil burners, lubricating lines on ships
 Continuous operation processes or continuously running chemical operations
 Fluid transmission and product lines in petrochemical, oil and gas refineries, chemical industries, power plants
 Filtration of fuel oil for industrial, cooling towers, industrial water intakes, marine oil burners, lubricating lines on ships

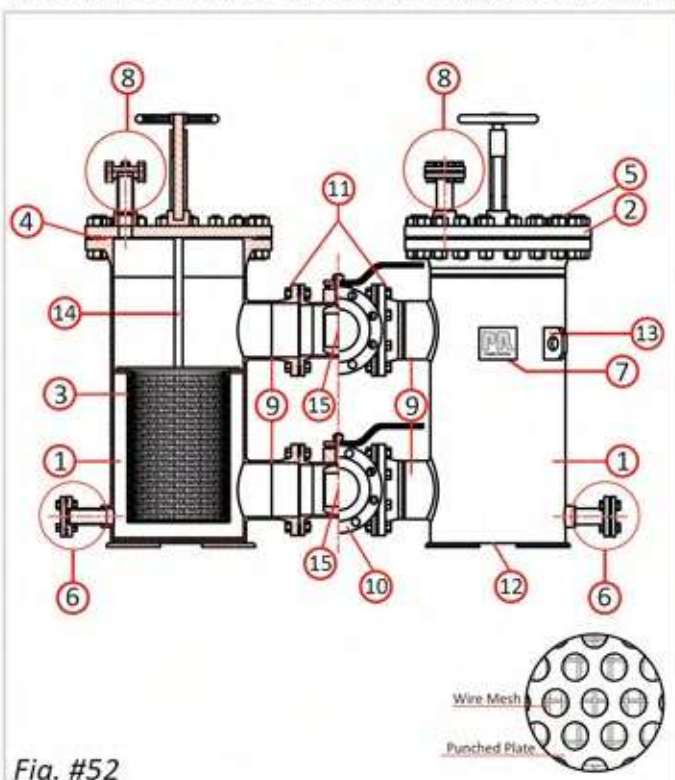


Fig. #52

No.	Part Name	Material
1	Body	See Table #01 (Page 9)
2	Bonnet (Flange)	Same as Body
3	Screen (Wire Mesh & Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Gasket	Graphite + SS
5	Stud bolt & Nut	CS, SS, etc.
6	Drain	Same as Body
7	Nameplate	Aluminium / SS
8	Vent	Same as Body
9	Nozzle pipe	Same as Body
10	3 way ball valve	CS, SS, etc.
11	Nozzle flanges	Same as Body
12	Bottom plate	Same as Body
13	Hanger eye	Same as Body
14	Guide	CS, SS, etc.
15	Switching ball	AISI 316L/316

Table #22

Duplex strainers with 3-way ball valves

Description

Standards: ASME Sec. VIII Div. I, B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25
 End Connections / Rating: Flanged according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#
 Butt Weld according to ANSI B16.25, Vent / Drain type: Flange, Valve, Screw, Plug, etc.
 Certification: EN 10204 3.1B, 3.1C, NACE MR0175
 Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request

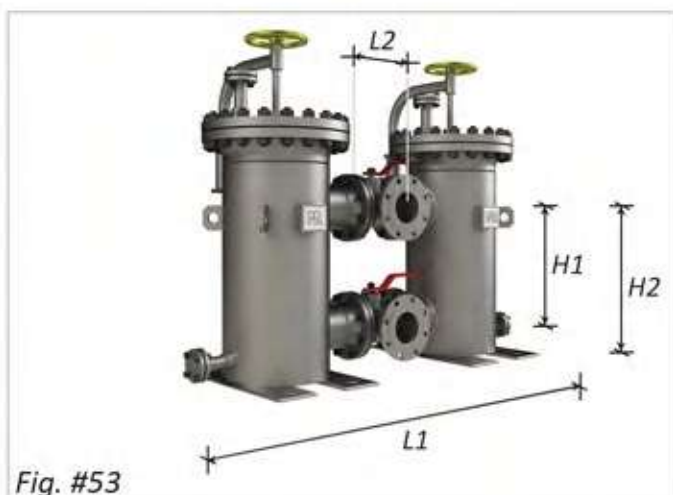


Fig. #53



Fig. #54

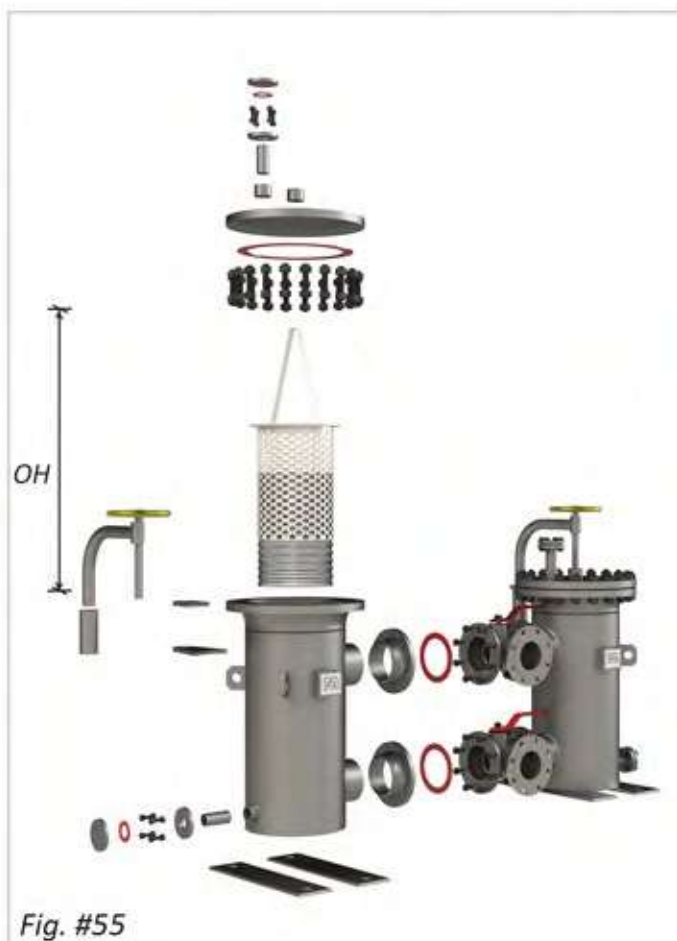


Fig. #55

Duplex Strainers with 3-way Ball Valves - RF - #150

Nominal Dia. (inch)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	OH (mm)
2	925	140	991	280	450	1550
3	966	140	1105	280	500	1702
4	1232	172	1197	305	550	1905
6	1524	204	1456	331	650	2337
8	1837	267	1867	381	800	3252

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

Table #23

*PR Co. may change product types, specifications, designs, sizes and availability.

Conical strainers (temporary & permanent)

Technical details

Conical strainers are used upstream of pumps, compressors, costly valves, meters, and other mechanical equipment in piping systems and pipelines during flushing, commissioning and start-up operations to protect them from construction debris such as welding slag, welding rod, pieces of wood, cigarettes, rocks, etc. that may have been left in the pipe. Conical temporary strainers usually used for temporary use and should be removed and thrown away after the initial cleaning of the system and after start up is completed which installation of the strainer be done in cone facing downstream.

32 Conical permanent strainers permanently used in upstream costly and sensitive mechanical equipment such as compressors which installation of the strainer be done in cone facing upstream.

PR Co.'s conical strainers are produced using wire mesh which often reinforced by punched plate and installed between two flanges and available in conical, truncated conical (VW type) configurations.

Features

Protection of sensitive equipment during commissioning such as pumps, compressors, heat exchangers and instrumentation

Continuous filtration

Large filtration area

High holding capacity of particles

Low pressure drops

Resistance against high pressure and high temperature

Capability to select of components compatible with various fluids

Easy operation and low service and maintenance costs

Applications

Upstream of pumps, compressors, costly valves, meters and other mechanical equipment

General purpose such as steam, water, oil and Gas services

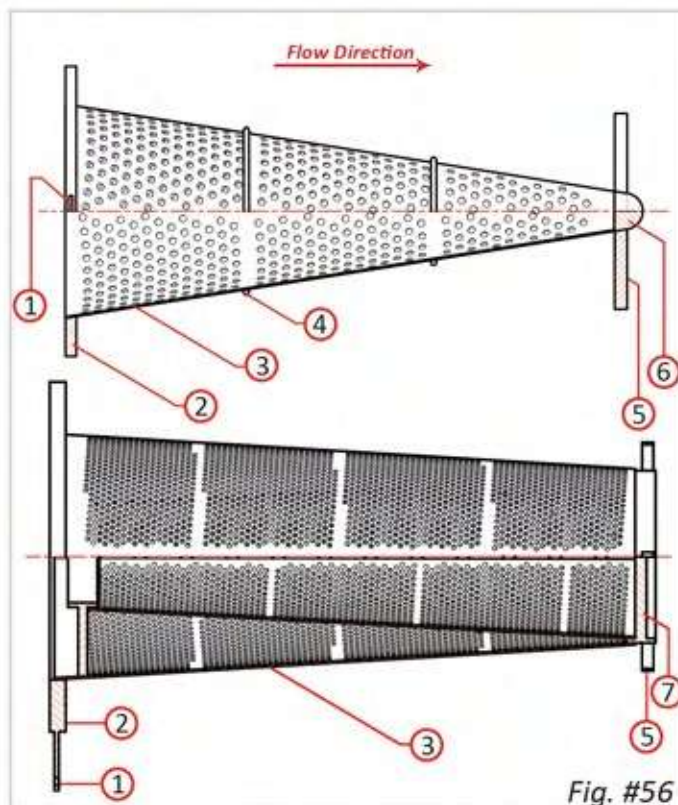


Fig. #56

No.	Part Name	Material
1	Handle	See Table #01 (Page 9)
2	Ring	Same as Body
3	Screen (Wire Mesh and/or Punched Plate)	Stainless steel AISI 316L/316 AISI 304L/304
4	Reinforcement rod	CS, SS, etc.
5	Adjustment	SS, etc.
6	Cap	Same as Body
7	Bottom ring	SS, etc.

Table #24

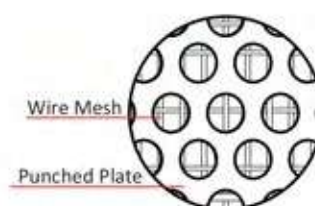


Fig. #57

Conical strainers (temporary & permanent)

Description

Standards: ASME B31.4, B31.3, ASME / ANSI: B16.10, B16.34, B16.5, B16.25

End Connections / Rating: according to ANSI B16.5 / 150#, 300#, 400#, 600#, 900#, 1500#

Certification: EN 10204 3.1B, 3.1C, NACE MR0175

Tests: 100% Hydro test as standard, NDT such as X-Ray, MT, PT, RT, UT available on request



Fig. #58



Fig. #59

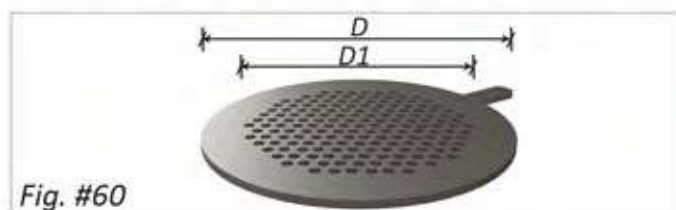


Fig. #60

Conical / truncated conical (VW type) / flat type strainers

Nominal Dia. (inch)	D (mm)		D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)
	150#	300#				
2	102	108	46	-	60	-
3	134	149	70	45	85	100
4	172	181	93	60	115	110
6	220	248	135	90	180	170
8	277	308	185	125	230	210
10	337	362	235	150	295	270
12	407	426	275	180	365	325
14	447	485	305	205	390	350
16	511	543	350	245	455	400
18	546	597	400	270	510	450
20	603	651	450	305	570	500
24	715	715	550	360	675	600
28	829	829	645	415	780	700
30	880	880	695	450	835	750
32	937	937	740	470	885	800
36	1045	1045	840	530	995	900
40	1159	1159	930	600	1130	1000
42	1216	1216	975	630	1180	1050
48	1381	1381	1120	710	1350	1200
60	1711	1711	1400	890	1700	1500

Notes:

- PR Co. can produce or supply other specifications on request.
- All dimensions are approximate.
- All strainers should be installed as close as possible to the equipment which should be protected.

Table #25

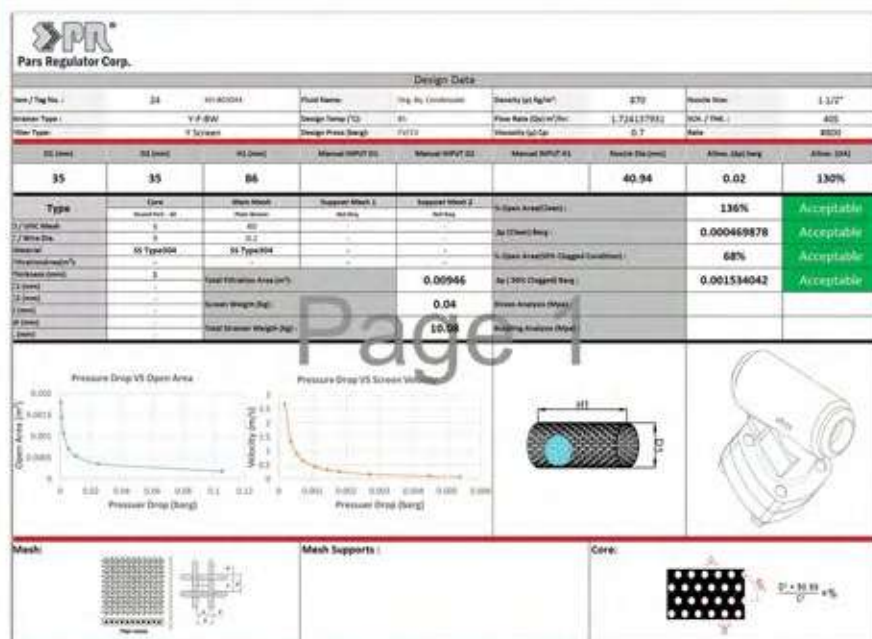
*PR Co. may change product types, specifications, designs, sizes and availability.

Pressure drop and open area calculation

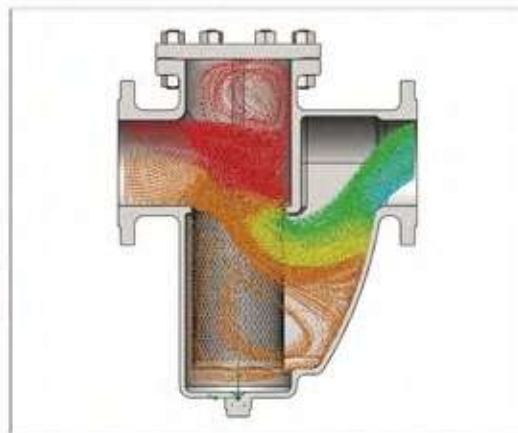
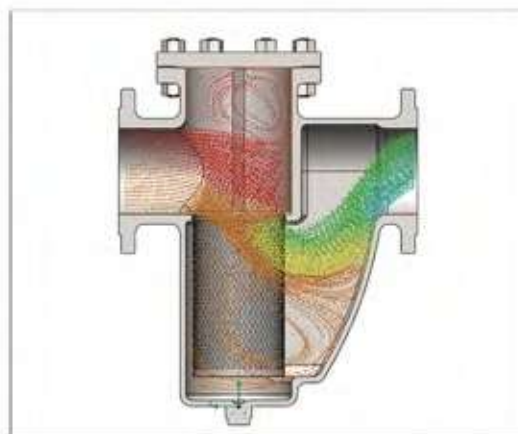
Technical details

Pars Regulator Co. uses CAD services to design and build specialty products, 3D computerized product models such as Solidworks and Catia which this capability enables us to provide a better illustration of the installation, flow and positioning of our custom engineered products, Ansys and 'CFD' or Computational Fluid Dynamics software that this program enables us to model flow throughout our strainers to accurately determine the pressure drop for any fluid travelling through stainless perforation or mesh, to any design condition and other programs such as PV Elite. Also, PR Co. has got an exclusive proprietary software that can calculate rates of open area, filtration area and initial pressure drop for different types of strainers with any design conditions.

The following table shows rates of filtration area and Initial pressure drop for different type of strainers in the mentioned sizes and for mesh 10 and mesh 40 @ strainer class 150 & SCH 40, fluid: water) $\rho: 997 \text{ kg/m}^3$, $\mu: 1 \text{ cp}$.



Type of Strainer	Size (inch)	Flow rate (m³/hr)	Mesh 10		Mesh 40	
			Open Area Ratio(%)	Pressure drop @Clean	Open Area Ratio(%)	Pressure drop @Clean
Y Strainer	1/2	5	300	0.07	275	0.07
	3/4	5	272	0.03	250	0.035
	1	5	200	0.02	180	0.02
	2	5	175	0.003	175	0.002
Tee Strainer	3	30	200	0.01	200	0.009
	8	90	220	0.002	200	0.0015
	12	180	205	0.0015	200	0.0015
	24	1000	210	0.004	200	0.004
Basket Strainer	3	30	300	0.003	290	0.003
	8	150	300	0.003	260	0.003
	12	500	260	0.002	230	0.003
	24	1000	280	0.002	250	0.003
Bucket Strainer	3	30	250	0.008	220	0.007
	4	60	210	0.012	190	0.012
	6	75	222	0.0035	200	0.003
	8	90	200	0.001	190	0.001
Conical Strainer	3	30	238	0.008	213	0.007
	8	100	213	0.002	200	0.002
	12	200	233	0.0015	210	0.002
	24	1000	210	0.003	200	0.002



Available tests for PR strainers

Fundamentally strainers testing will ensure that they meet standards requirements and determine that welds are high quality and reliable and strainers will not leak and can withstand the pressure requirements that will be placed upon it. Common testing of strainers includes Impact testing, NDT (RT, MT, PT, etc.), Hydrostatic testing, Vibration testing, Shock testing, Thermal Shock testing, Fire Testing, Cryogenic testing and Pressure Drop Testing. Non-Destructive Testing (NDT)

Radiographic Testing (RT or X-ray) - An expensive non-destructive testing method and usually specified only for high pressure strainers which can show any slag or sand inclusions, gas pockets or subsurface defects of welded joints and or casting.

Magnetic Particle Testing (MT or MPI) - A low-cost non-destructive testing method to determine shallow subsurface cracks, gas pockets, etc. Iron dust is sprinkled on the surface of the casting/weld and a magnetic force is induced electrically. This causes the dust to align over any defects and cracks, and shows their location and size. This examination can only be used on iron and steel.

Dye / Liquid Penetrant Testing (PT or DPI or LPI) - One of the oldest and simplest non-destructive testing methods and equivalent to magnetic particle testing, is used to surface defects, cracks, depressions, etc.

Hydrostatic Testing or Hydrotest - Most common test for strainers to detect strength and possible leaks at the design pressure which usually is 1.5 times (according to ASME B31-Pressure Piping Code) and 1.3 times (according to ASME B31-Boiler and Pressure Vessel Code) the design pressure.

Air Test - done under water or with part covered with soap solution which a more precise test for porosity and gasket leakage than hydrostatic, and leaks often are more obvious but mostly due to relative danger involved, air test is not done (up to 6 bar).

Cryogenic Testing - To enhance and maintain high standards of strainer design for low temperature and cryogenic purposes at boiling-point of liquid nitrogen (temperature -196°C).



Corporate Social Responsibility (CSR):

We all live in one world and everything we have comes from the nature or other human beings. We should therefore take care of and respect our environment and each other for a better future. Companies are a big part of our social life and therefore have a key role to play. To act responsible to the nature and the society should be a part of every company's commitments.

Global climate and environmental changes, poverty, and pandemics like COVID-19 are three very important challenges we are facing. They are all global challenges that need global solutions.

36

- Challenge I: According to the latest research from the Intergovernmental Panel on Climate Change (IPCC), we have around 10 years to make the necessary transformations to avoid the worst impacts. CO2 in the atmosphere needs to be cut by 45% by 2030 to prevent global warming above 1.5 degrees Celsius.
- Some solutions for challenge I: Reduce the usage of fossil fuels, plant trees, work paperless, recycle, respect animals and environment.
- Challenge II: The World Bank Organization describes poverty as followed: "Poverty is hunger. Poverty is lack of shelter. Poverty is being sick and not being able to see a doctor." More poverty means less health, less creativity, less happiness and much more.
- Some solutions to challenge II: Create jobs, provide access to free or cheap education, healthcare and medical insurance especially for children and elderly, empower women especially mothers, donate to reliable charities such as Shokuhemehr, Kahrizak and Mahak charities. For more information, please check their websites mentioned at the end of this page.
- Challenge III: Pandemics like COVID-19. COVID-19 unfortunately has caused more than 2.5 million deaths so far.
- Some solutions to challenge III: wear masks, pay more attention to personal hygiene, eat healthy, don't smoke, and be physically active to boost immune system, don't spread or believe in fake news and rumors especially about vaccines and drugs, check all information in trustworthy sources, work from and stay more at home.

We, all employees and executives at PR, strongly believe in the importance of the aforementioned challenges and would do our best to be a part of the solutions to these issues

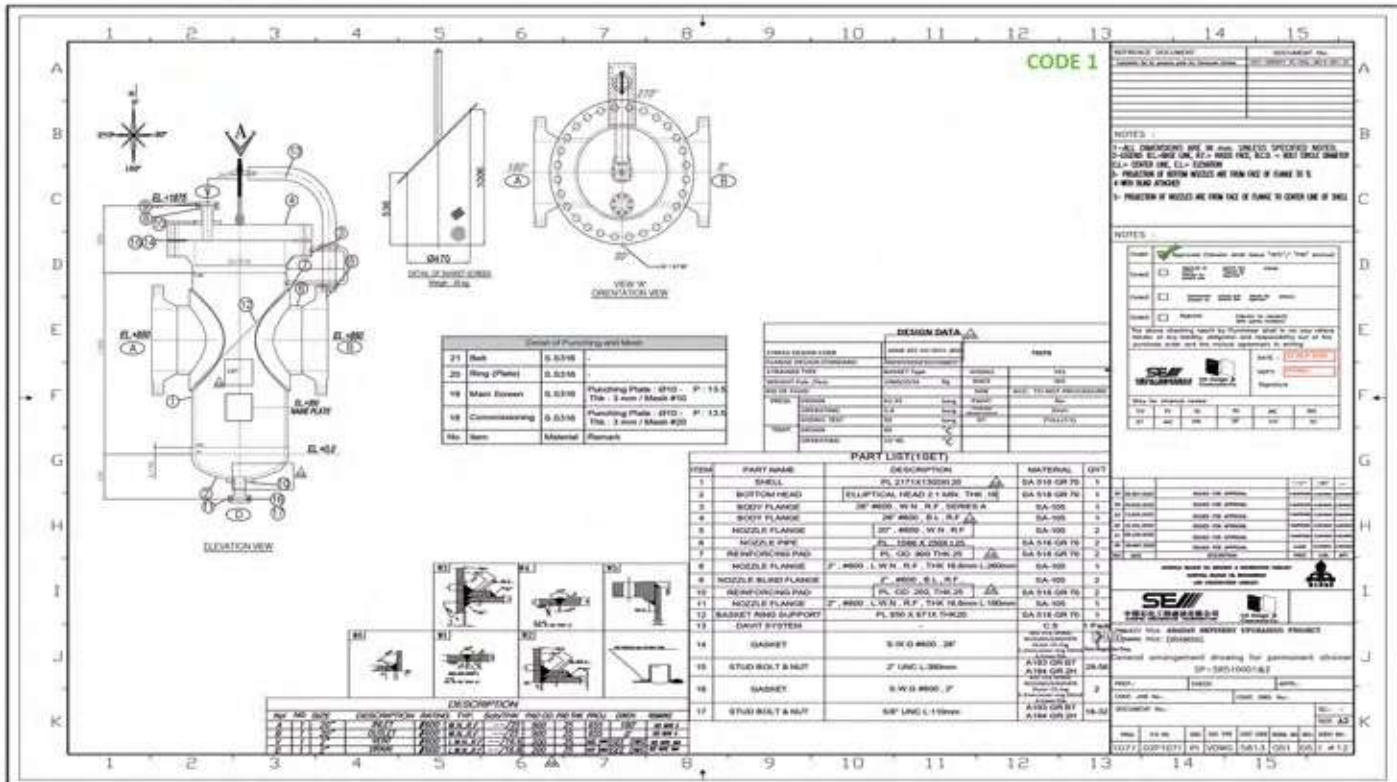
References:

- <https://www.unicef.org/>
- <https://www.who.int/>
- www.mahak-charity.org
- <https://shokuhemehr.ir/>
- <https://kahrizakcharity.com/en/>



Technical documents

Sample of Strainer drawing



37

Sample of PR certificate (MTC)

MILL TEST & INSPECTION CERTIFICATE

According to EN10204: 3.1

Customer: (O.D.C.C) شرکت پارس و سازان نفت

Order No.: 01912601981

Contract No.: PR-1388-CE01982601981-8

RFQ No.: STRAINER



PR
Pars Regulator Corp.

An ISO 9001: 2008 Registered Manufacturer



	Item no.	Serial NO:	Qty. (pc)	Description	Size	Part Name	Raw Material Heat NO.	Raw Material Traceability No.	Specification for								
									Material								
1	8	4006 4007	2	T-TYPE STRAINER, STRAIGHT- THROUGH, 300#, SCH120, BW TWO SCREEN PERFORATED PLATE (3mm AND 10 MESH) GASKET RF-SPRAL WOUND S304FG BOLT & NUT MAT-ASTM A193 GR.B7M/A194 GR.30M DRAIN 3/4" PLUG HIC & H2S RESISTANT INCLUDED	8"	Blind Flange	150128	12237-1	ASTM A305 NACE MR0103 HIC/SSC								
						Welding Neck Flange	150128	12237-1	ASTM A305 NACE MR0103 HIC/SSC								
						Body	613	5724-39	ASTM A234 WPB NACE M00103 HIC/SSC								
						Screen (Punching Plate)	61700	18072-1	ASTM A240 Gr 304 NACE MR0103 HIC/SSC								
						Plug	3212	12594-2	ASTM A305 NACE MR0103 HIC/SSC								
Chemical Analysis (Percent)																	
2	Elements		C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Fe	V	Ti	Nb	Remark(s)	
	Product Code(Blind Flange)		H2026	0.20	0.35	0.84	0.019	0.005	0.008	0.007	0.03	0.04	BASE	<0.002	0.006		0.002
	Product Code(Welding Neck Flange)		1134	0.20	0.35	0.84	0.019	0.005	0.008	0.007	0.03	0.04	BASE	<0.002	0.006		0.002
	Product Code(Body)		410308	0.17	0.20	0.40	0.018	0.015	0.04	0.006	0.008	0.009	BASE	<0.002	<0.002		<0.002
	Product Code(Punching Plate)		61700	0.027	0.38	1.24	0.024	<0.005	18.03	0.04	6.57	0.03	BASE	0.08	0.004		0.01
	Product Code(Plug)		3212	0.20	0.25	0.77	0.019	0.008	0.01	0.01	0.04	0.03	BASE	0.007	0.002		NCNE
						NDT Test			Heat Treatment			Final & Dimensional is Satisfactory The Certificate is Valid with Histogram Performance Test & Coating is OK					
3	Mechanical Test		Tensile Strength(Mpa)	Yield Strength(Mpa)	Hardness(HB)	Elongation (%)	Reduction Area(%)	PT 1000 PT 1000 RT 1000 of All Product PWHT 1000			NORMALIZED @600°C						
	Product Code(Blind Flange)		H2026	490	283	150	32	64									
	Product Code(Welding Neck Flange)		1134	490	283	150	32	64									
	Product Code(Body)		410308	428	326	131	34	-									
	Product Code(Punching Plate)		61700	-	-	148	-	-									
	Product Code(Plug)		3212	507	332	148	39	68									

Pars Regulator Co. Hereby Declares that the Product(s) Supplied are in Compliance with the Related Standard(s), Requirement(s) of the Order and Supplies Test Result(s).

PR factories and warehouses

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PR Head Office

46, Karimkhan St., 1584893119, Tehran, IRAN
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Location



PR Abbas Abad Factories & Warehouses

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Location



Tube Fittings
 Needle Valves
 Valve Manifolds
 Flexible Hoses

Quick Connections
 Grease Fittings
 LP Gas Regulators
 etc.

PR Malard Warehouse

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Location



PR Safadasht Factories & Warehouses

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Strainers
 Filters
 Piping Ball Valves
 Instrumentation Ball Valves
 Cryogenic Ball Valves
 Switching Ball Valves
 Steam Traps
 Condensate Pots

Block & Bleed Valves
 Gate, Globe & Check Valves (GGC Valves)
 Pipe Fittings
 Flanges
 Pressure Vessels and Heat Exchangers
 Piping Skids
 Sampling Systems
 etc.



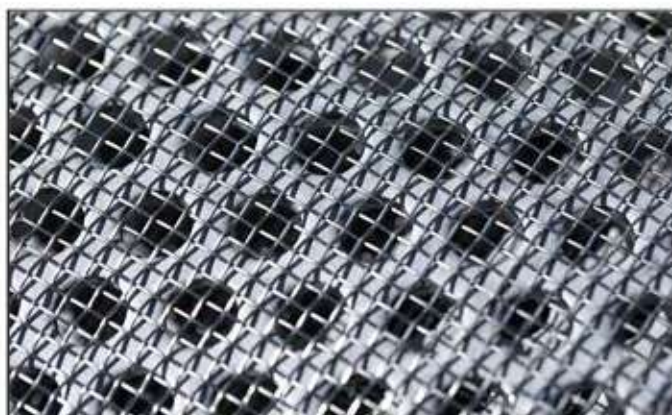
Location



Pars Regulator Corp.

info@parsregulator.com

Photo gallery



High Pressure Instrumentation and Piping Valve Series

- Floating / Trunnion Mounted Ball Valves
- Single / Double Block & Bleed Valves (SBBV and DBBV)
- Metal / Soft Seated Ball Valves
- Cryogenic Ball Valves
- Needle Valves
- 2, 3 and 5 Valve Manifolds
- Multi-Port Gauge Valves
- One-Piece (Mini) Instrumentation Ball Valves
- On - Off (2 Way) and Switching (3 Way) Valves
- 2 or 3pc Forged Ball Valves
- Gate, Globe and Check (GGC) Valves
- In-Line and Velocity Check Valves
- Other Valves

Tube Fitting Series:

- Single / Two Ferrule Instrumentation Tube Fittings (Compression Type)
- Instrumentation Elbows, Connectors, Union, Adaptors, Nipples, Couplings, Branch and Run Tees, Crosses and Bushings, Caps and Head Plugs
- High Pressure Flexible Hydraulic Hoses
- Thermowell
- Grease Fittings and Lock Seal Fittings
- Filter Fittings (Tee Filters)
- Flare Tube Fittings
- Quick Couplings and Quick Connections
- Other fittings

Strainer Series

- Basket / Bucket Strainers
- T-Type Strainers
- Y-Type Strainers
- Temporary / Conical Strainers
- Duplex Strainers
- Custom Engineered Strainers

Industrial Process Filter Series

- Pleated SS. Multi-Layer Filter Cartridges
- Polymer Filters
- Demister Pad
- Auto Self - Cleaning Filters
- Dry Gas Filters
- Coalescer Filters
- Air Filters
- Disc Filters
- Other Filters

High Pressure Forged and Butt-Weld Pipe Fitting Series:

- Forged Elbows 45 & 90, Tees, Cross, Unions, Couplings, Nipples, Sockolet, Weldolet, Plugs, Thredolet, Caps, Inserts, etc.
- Butt-welding LR and SR 45 & 90 Elbows, Straight & Reducing Tees, Caps, Concentric & Eccentric Reducers, 180 Return Bends, Stub Ends, Laterals, Cross, etc.

Tubes and Pipes Series

- Seamless Instrumentation Tubing
- Seamless / Welded Line Pipes
- U-Tubes and Coiled Tubing

Forged Flange Series

- Weld-Neck Flanges (WN)
- Slip-On Flanges (SO)
- Socket Weld Flanges (SW)
- Ring Type Joint Flanges (RTJ)
- Blind Flanges (BL)
- Threaded (Screwed) Flanges
- Spectacle Blinds, Blank & Spacer and Spades
- Special Flanges

Regulator Series

- High / Low Pressure LPG Regulators
- Adjustable Pressure LPG Regulators
- Other Products

Steam Trap Series

- Forged Thermodynamic Steam Traps

Other Products

- Pressure Vessels up to 50 Ton
- Condensate Pot and Sample Cylinders
- Air Header Distribution Manifolds
- Syphon Tubes and Tube / Pipe Coils
- Sample Coolers and Sample Point
- Vebeo Fittings
- Metal Rings
- Sampling Skid Systems and Piping Pot
- Other Special Products



Pars Regulator Corp.

Since 1988

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