

**FOR PROCESS CONTROL APPLICATION**



## LEVEL GAUGES

**VEEKAY** Liquid Level Gauges are designed for use in all types of pressure vessels, tanks and boilers. **VEEKAY** level gauges permit a safe, positive accurate reading of any liquid level. **VEEKAY** level gauges (all the 3 types) are assembled with a pair of auto shut off ball check valve arrangement for ensuring maximum safety.

### 1. Reflex Level Gauge

**VEEKAY** Reflex Level Gauges are recommended for clean liquids and where observation is required from a safe distance and on low pressure boilers and vessels. **VEEKAY** Reflex Level Gauges are assembled with flat glasses which are having inner surfaces of reflecting prisms due to which the liquid level behind the glass appear black and the empty (vapour) surface appear white. **VEEKAY** Reflex Level Gauges can be used with frost shield for sub-zero temperature.

OP. Pre. and Temp. : 0-100 kg/cm<sup>2</sup> and -30°C - +300°C

### 2. Transparent Level Gauge

**VEEKAY** Transparent Level Gauges are suitable for coloured, adulteration liquids with suspended solid particles and recommended for high pressure boilers. **VEEKAY** Transparent Level Gauges can be used with mica shield for high temperature.

OP. Pre. and Temp. : 0-150 kg/cm<sup>2</sup> and 0-400°C

### 3. Tubular Level Gauge

**VEEKAY** Tubular Level Gauges are suitable for low pressure and low temperature applications which are simple in construction and permits viewing in any directions.

OP. Pre. and Temp. : 0-15 kg/cm<sup>2</sup> and 0-250°C

#### Material of Construction

Chamber, Valve Body	: CS/SS-304/SS-316/PVC
Cover Plate	: CS/Forged Steel/Aluminium
Internals	: SS-410/SS-304/SS-316/PVC
Glass	: Toughened Borosilicate (Indian/Imported)
Gasket	: CAF/Teflon/Wire Mesh
Bolts & Nuts	: ASTM A 193 B7/194 2H

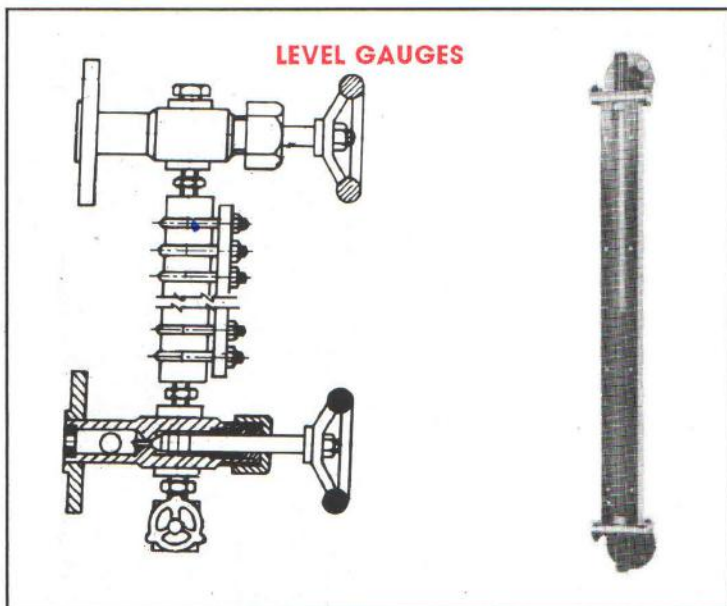
**Other Grades of M.O.C.** : As per Customer's request

**Process Connection** : Any International Standard

**Accessories** : Scales/Shield/Illuminator/Heating Chamber

#### Enquiry/Ordering Information

1) Type 2) C.C. Distance (Flange to Flange) 3) Connection 4) Material of Construction 5) Service 6) Op. Pre. and Temp. 7) Qty.



## LEVEL SWITCHES

**VEEKAY** manufactures 2 types of float operated magnetic level switches. Which are either side mounted or top mounted. **VEEKAY** level switches can be manufactured to suit applications of all services and are magnetically operated glandless micro switch eliminating any possibility of leakage which avoids a lot of complication than the conventional models. A wide range of switches are available in weather proof and flame proof housing.

### 1. Side Mounted Level Switch

**VEEKAY** side mounted level switches are assembled with float and permanent magnets. These float level switches work on magnetic coupling with snap acting contacts. These are used for the purpose of alarm as well as for pump starting or stopping. The switch should always be connected in series with an electrical relay. **VEEKAY** side mounted level switches can be used with Internal/External Cage Units for very high pressure and temperature.

OP. Pre. and Temp. : 0-100 kg/cm<sup>2</sup> and 0-400°C

### 2. Top Mounted Level Switch

**VEEKAY** top mounted displacer operated level switches are specially used for level signalisation in sumps and vessels wherever monitoring at one/two/three different levels at considerable depths are required.

OP. Pre. and Temp. : 0-20 kg/cm<sup>2</sup> and 0-250°C

#### Material of Construction

Chamber, Flange	: SS-304/SS-316/PVC
Float	: SS-304/SS-316/PVC/PP
Housing	: SS-304/SS-316/Aluminium
Switch	: Micro/Reed

**Other Grades of M.O.C.** : As per Customer's request.

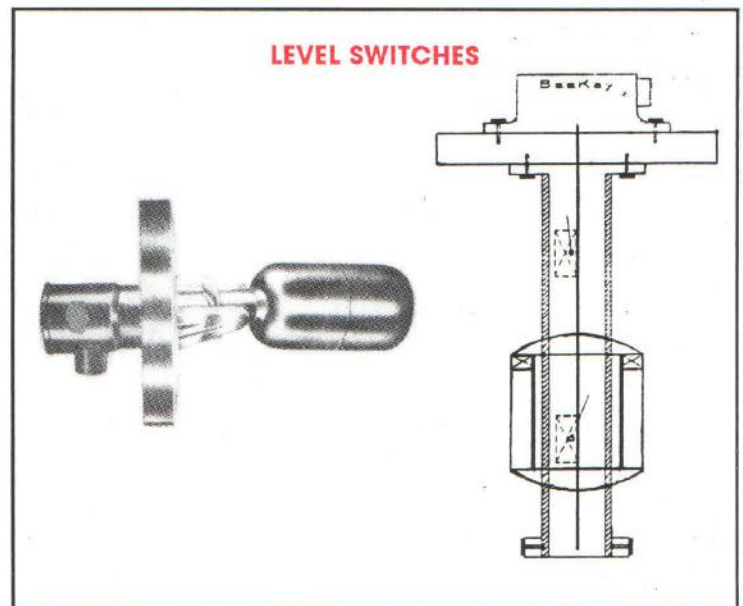
Current rating : 230V AC at 5 Amp.

Electrical connection : 3/4" ET

**Process Connection** : Any International Standard

#### Enquiry/Ordering Information

1) Type 2) Range/Size 3) No. of Signals 4) Connection 5) Material of Construction 6) Service 7) OP. Pre. and Temp. 8) Qty.





## SIGHT FLOW INDICATORS (SIGHT GLASSES)

**VEEKAY** Sight Glasses are of technically excellent design to see flow through pipelines/vessels in any direction. **VEEKAY** offers 2 types of Sight Flow Indicators suitable for all your application ranging from sizes 1/4" to 12"

### 1. Double Window Sight Glass

**VEEKAY** Double Window Sight Glasses are assembled with 2 Nos. round toughened borosilicate glasses on either side of the body to get the clear vision of the liquid flowing through. **VEEKAY** Double Window Sight Glasses are fitted with Diptube/Flapper/Rotating wheel to indicate the flow. These are used in both horizontal and vertical pipe lines. **VEEKAY** Sight Glasses with rotating wheel are suitable for installation in any position, but are particularly adapted to pipe lines carrying dark opaque solutions, where the motion of the wheel is easily detected. This model is equally adapted to transparent solutions and gases and is frequently installed where observations must be made from a distance. **VEEKAY** Right Angled Sight Glasses fitted with Diptube or without diptube can be used for Right Angled Pipelines.

OP. Pre. and Temp. : 0-25 kg/cm<sup>2</sup> and 0-250°C

### 2. Full View Sight Glass

Full View sight Glasses are assembled with Toughened cylindrical (Tubular Glass) and can give flow indication from any direction. These are recommended for low pressure pipe lines. For colourless fluids it can be fitted with Diptube.

OP. Pre. and Temp. : 0-10 kg/cm<sup>2</sup> and 0-200°C

### Material of Construction

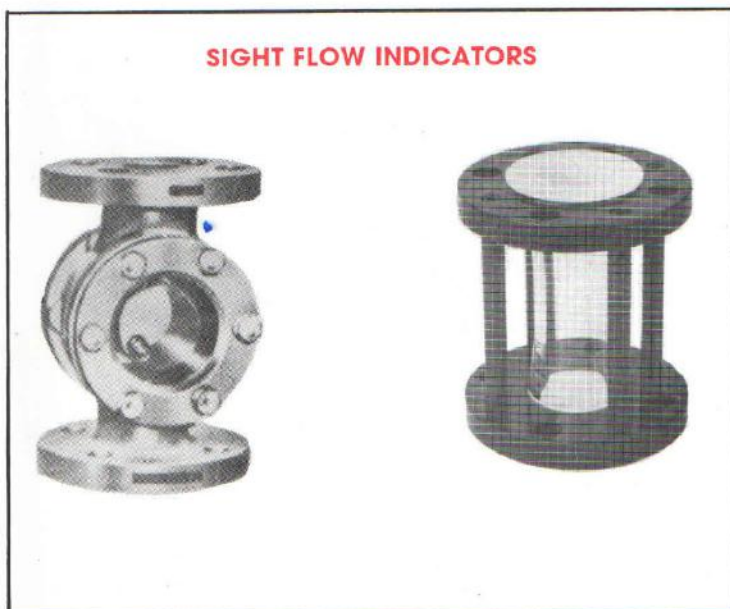
Body, Flange	: CS/SS-304/SS-316/Brass/CI
Glass	: Toughened Borosilicate
Cover Plate	: CS/Aluminium
Gaskets	: CAF/Neoprene/Teflon
Bolts & Nuts	: ASTM A 193 B7/194 2H

**Other Grades of M.O.C.** : As per Customer's request

**Process Connection** : Any International Standard

### Enquiry/Ordering Information

1) Type 2) Size 3) Indicator 4) Connection 5) Material of Construction  
6) Op. Pre. and Temp. 7) Qty.



## STRAINERS

**VEEKAY** manufactures 2 types of strainers which help in removing foreign particles in the flowing liquids and gases, due to which the life of your pumps, valves and other flow control equipments increases. **VEEKAY** strainers are so specially designed that the pressure drops are well kept within reasonable limits and to have effective straining reasonable straining area is offered. **VEEKAY** can also design and manufacture custom made strainers to meet special requirements. **VEEKAY** strainers are available in sizes from 1/2" to 24" in various models.

OP. Pre. and Temp. : 0-50 kg/cm<sup>2</sup> and 0-400°C

### 1. Y-Strainers

**VEEKAY** Y-type strainers are offered in both screwed and flanged connections and are the most effective ones in straining the impurities of your required size. **VEEKAY** offers a completely sound proof no leak and no crush screen which is precisely machined providing perfectly round and smooth seating surfaces.

### 2. Basket-Strainer

**VEEKAY** manufactures single basket strainers which facilitate the temporary shut down cleaning in industries. **VEEKAY** basket strainers have more straining area than the Y-type. **VEEKAY** basket type strainers can be supplied with drain if the same is requested by the customer. **VEEKAY** can offer special design strainers to have a larger straining area.

### Material of Construction

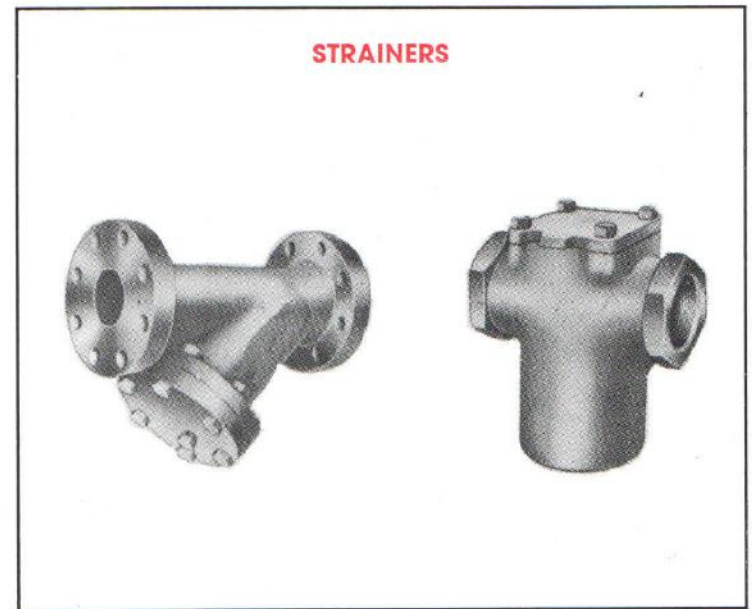
Body, Flange Plug	: CS/SS-304/SS-316/Brass
Mesh Screen	: SS/Brass
Bolts & Nuts	: ASTM A 193 B7/194 2H
Gaskets	: CAF/Neoprene/Teflon

**Other Grades of M.O.C.** : As per Customer's request.

**Process Connection** : Any International Standard

### Enquiry/Ordering Information

1) Type 2) Size 3) Connection 4) Material of Construction 5) OP. Pre. and Temp. 6) Service 7) Qty.





## SAFETY & RELIEF VALVES

VEEKAY manufactures 2 types of Pressure releasing (discharging) valves as per the ASME Code VIII and API RP-526. Both Safety Valve and Safety Relief Valves of the spring loaded type are similar in external appearance and both serve the broad general purpose or limiting fluids (liquid or gases) Pressures by discharging some of the pressurized liquid or gas. For very high temperature safety and safety relief valves can be used with finned bonnet. VEEKAY can also design and manufacture custom made safety relief and safety valves to meet special requirements. VEEKAY safety and safety relief valves are available in sizes from 1/4" to 14".

OP. Pre. and Temp. : 0-100 kg/cm<sup>2</sup> and 0-500°C

### 1. Safety Valve

VEEKAY Safety Valves are for use with gases - which include air and steam. Their design always include a huddling chamber which utilises the expansion forces of these gases to effect quick opening (popping) and closing actions. The differences between the opening and closing pressure is termed "blowdown" and for steam valves blowdown limitations are carefully considered by us as per ASME code.

### 2. Safety Relief Valve

VEEKAY Safety Relief Valves are normally used for liquid service, although safety valves may also be used. Ordinary relief valves do not have an accentuated huddling chamber nor a regular ring for varying or adjusting blow down they therefore operate with a relatively lazy motion, slowly opening or closing as pressure increases or decreases. Such relieving action affords suitable protection for vessels or systems where there is no need for instantaneous release of large volumes, and where sufficient leeway is provided between the design pressure and the operating pressure in the system.

### Material of Construction

Body, Bonnet, Cap : CI/CS/SS-304/SS-316/Brass/Gun Metal  
Internals : SS-410/SS-304/SS-316/Brass  
Spring : Spring Steel  
Gaskets : CAF/Neoprene/Teflon  
Lever : Steel

**Other Grades of M.O.C.:** As per Customer's request

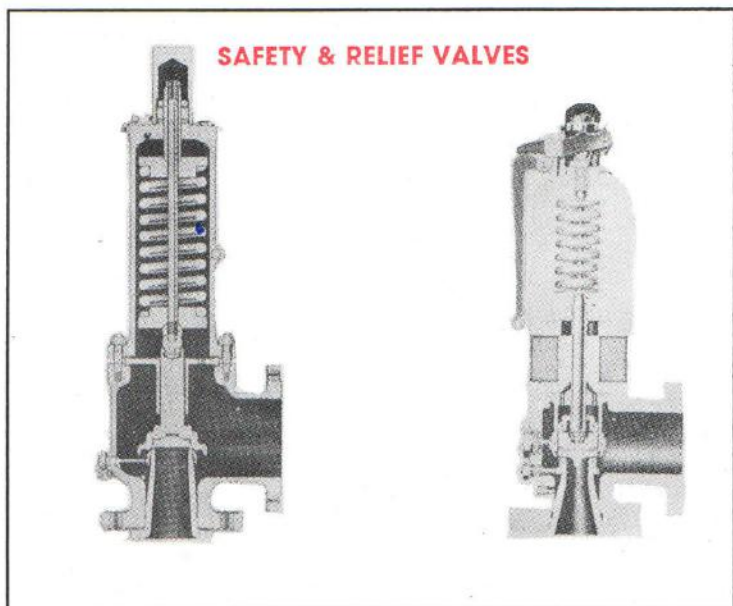
### Accessories

Lever : Plain/Packed  
Bonnet : Standard/Finned

**Process Connection** : Any International Standard

### Enquiry/Ordering Information

1) Type 2) Size 3) Connection 4) Material of Construction 5) Capacity 6) Op. Pre. and Temp. 7) Set Pressure 8) Service 9) Qty.



## BALL VALVE

VEEKAY Ball Valves are assembled with ball and body which are mainly used for handling industrial fluid system having advantages like full bore, turbulence free flow with wide range. VEEKAY ball valves finds extensive applications in the field of solvent extraction and oil refineries for free flow of system involving slurries, semi solids causing crystallisation or encrustation. VEEKAY ball valves has the unique advantage since it is a quick opening, non-sticking, exhibiting a negligible pressure drop because of their smooth full opening port which needs only a quarter turn from full open to full close. VEEKAY ball valves are involve a very low maintenance cost. VEEKAY ball valves are available in sizes from 1/4" to 12" in two different constructions like two piece and three piece constructions.

OP. Pre. and Temp. : 0-25 kg/cm<sup>2</sup> and 0-300°C

### Material of Construction

Body, Flange : CS/CI/SS/Brass/PVC/PP  
Ball, Stem : SS-304/SS-316/PP  
Seat : Teflon/Neoprene  
Lever : Steel

**Other Grades of M.O.C.:** As per Customer's request.

**Process Connection** : Any International Standard

### Enquiry/Ordering Information

1) Size 2) Connection 3) Material of Construction 4) OP. Pre. and Temp. 5) Service 6) Qty.

## ORIFICE PLATE & ASSEMBLY

VEEKAY Orifice plate and Assemblies are technically excellent design to measure the fluid flow in a circular pipes. VEEKAY offers three types of orifices like Concentric, Eccentric and Segmental as per the design standards of BS-1042/API. VEEKAY orifice plate and assemblies are having flange taps, corner taps with jack screws. VEEKAY orifice plates and assemblies are available in sizes from 1" to 24" having flanges of slip on and weld neck.

OP. Pre. and Temp. : 0-250 kg/cm<sup>2</sup> and 300°C

### Material of Construction

Flanges : CS/SS-304/SS-316  
Orifice Plate : SS-304/SS-316/Monel  
Bolts & Nuts : ASTM A 193 B7/194 2H  
Gasket : CAF/Teflon/Spiral-Wound

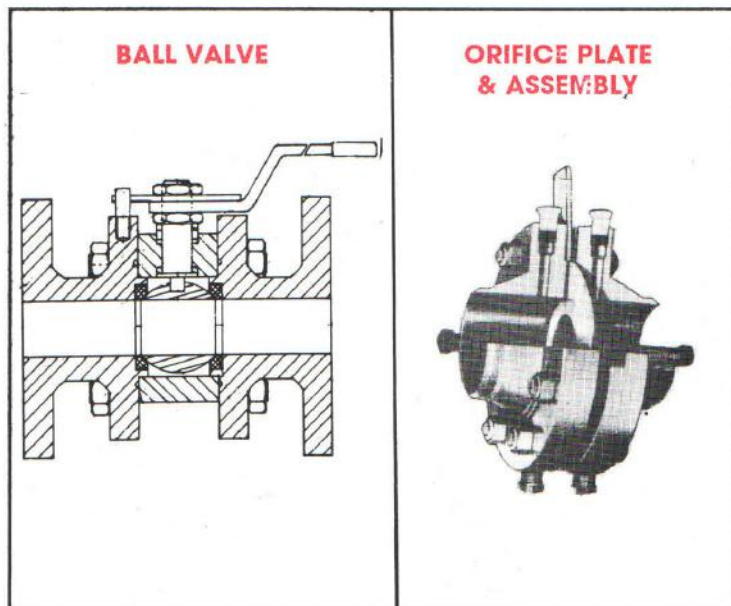
**Process Connection** : Any International Standard

**Accessories** : Jack Screws

**Optical** : Vent, Drain Holes, IBR Certificate

### Enquiry/Ordering Information

1) Nominal pipe size 2) Type 3) Connection 4) Op.Pre. and Temp. 5) Material of Construction 6) Service 7) Flow Rate 8) Qty.





## REMOTE LEVEL INDICATOR

**VEEKAY** Remote Level Indicator transmits the water level fluctuations in the boiler drum or in the tank to the working position of the attendant. It is working on the principle of 'U' tube differential gauge (Manometer) and is based on entirely hydro-static. It is of transparent level gauge filled with coloured liquid (Igeba Red Liquid - which is immiscible with water) is used as a portion of manometer (with necessary pipe line connection to the boiler drum and transparent level gauge) and located, so that the coloured liquid in the gauge will rise as the level in the steam drum rise. The whole assembly can be fitted with anywhere in the control room/ground floor with necessary connecting pipes to boiler drum and the Remote Level Indicator.

OP. Pre. and Temp. : 0-150 kg/cm<sup>2</sup> and 0-400°C

### Material of Construction

Chamber, Valve body	: CS/A105/IS-2002
Cover Plate	: CS/A105/Forged Steel
Glass	: Toughned Borosilicate
Internals	: SS-410/SS-304/SS-316
Red Liquid	: 1.6/1.95/2.95(sp. Gravity)
<b>Process Connection</b>	: Any International Standard

### Enquiry/Ordering Information

1) C.C. Distance 2) Connection 3) Material of Construction 4) Op. Pre. and Temp. 5) Qty.

## FLOAT AND CHORD LEVEL INDICATOR

**VEEKAY** Float and Chord Level Indicator (Buoyance type) is a simple, low-cost level gauge device suitable for all types of storage tanks to see the level from a long distance. The unit consists of guided float connected to a counter-weight by a CS/SS/Nylon Cables/Wires. The Counter-Weight is threaded on to the gauge boards on which the level is displayed in Cm/inch/foot/meter. It can be used as a single instrument to see the levels upto 15 meters height.

OP. Pre. and Temp. : 0-5 kg/cm<sup>2</sup> and 0-400°C

### Material of Construction

Float	: CS/SS/PVC/PP
Guide Wire	: CS/SS/Nylon
Pointer, Pulley	: Aluminium
Scale	: CS/Aluminium

### Enquiry/Ordering Information

1) Tank Height 2) Material of Construction 3) Graduation 4) Op. Pre. and Temp. 5) SP. Gravity 6) Service 7)Qty.

## MAGNETIC LEVEL INDICATOR

**VEEKAY** Magnetic Level Indicators are assembled with float, magnet and chamber which can be practically used all liquids (including hazardous/explosive) and specifically for those which attach glasses. Its working principle of attraction among dissimilar poles of permanent magnets and that of repulsion between like poles, **VEEKAY** can offers as a single instrument having C.C. Distance upto 3 meters.

OP. Pre. and Temp. : 0-100 kg/cm<sup>2</sup> and 0-400°C

### Material of Construction

Chamber, Flange	: SS/PVC
Float	: SS/PP/PVC/Teflon
Scale	: Aluminium/Acralllic
<b>Process Connection</b>	: Any International Standard

### Enquiry/Ordering Information

1) C.C. Distance 2) Connection 3) Material of Construction 4) Op. Pre. and Temp. 5) Service 6)Qty.

## OIL LEVEL INDICATOR

**VEEKAY** manufacturers 3 types of Oil Level Indicators which are mainly used in the Greasing/Oil System and gear boxes to see the lubricating oil levels in the concerned equipments. **VEEKAY** offers lengths from 2" to 12" for LBT type/Face type and 1/4" to 2" for Round type.

OP. Pre. and Temp. : 0-5kg/cm<sup>2</sup> and 0-400°C

### LBT type

**VEEKAY** LBT Type is assembled with glass tube and body which is having two different models of connctions such as single end and both end connections.

### Face type

**VEEKAY**Face type oil level indicator is equivalent to LBT type except the glass is in flat type and assembled with body and cover plate.

### Round type

**VEEKAY** Round type oil level indicator is assembled with round toughned glass or acrylic sheet.

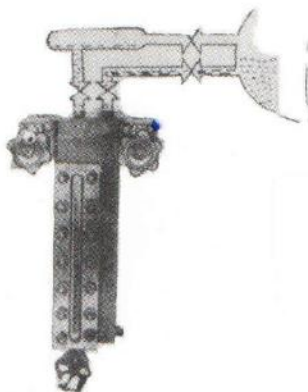
### Material of Construction

Body, Cover Plate	: CS/SS/Brass/Aluminium
Glass	: Toughned Borosilicate
Gasket	: Aluminium/Acralllic
<b>Process Connection</b>	: Any International Standard

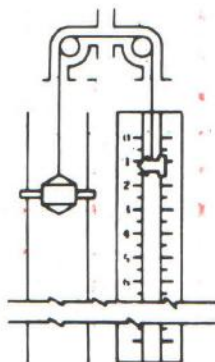
### Enquiry/Ordering Information

1) Type 2) Size 3) Connection 4) Op. Pre. and Temp. 5) Service 6)Qty.

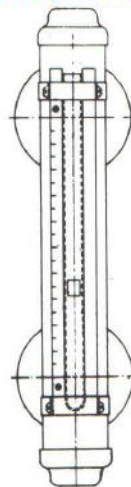
REMOTE LEVEL INDR.



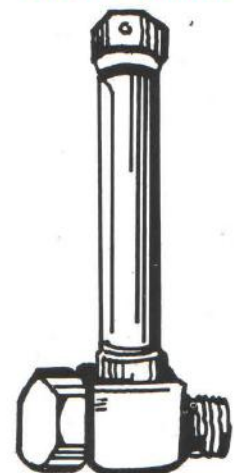
FLOAT AND CHORD LI.



MAGNETIC LI.



OIL LEVEL INDR.

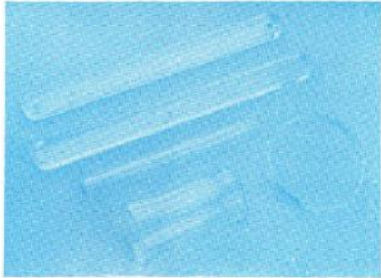






# Other VEEKAY Products

## TOUGHENED GLASSES .



- ★ Needle Valve and Mani Folds
- ★ Pressure cum Vacuum Relief Valve
- ★ Pressure Reducing Valve
- ★ Thermowell
- ★ Ball Float Valve
- ★ Flow Switch
- ★ All types of Spare Toughened Borosilicate Glasses (Indian/Imported)

VEEKAY undertakes supply of Lub-oil System and Fabrication of Vessels and Custom designed equipments.

**VEEKAY offers third party inspection**

In the interest of technical development, design dimensions are subject to modifications without prior notice.



## VEEKAY PROCESS INSTRUMENTS

### Registered Office and Factory

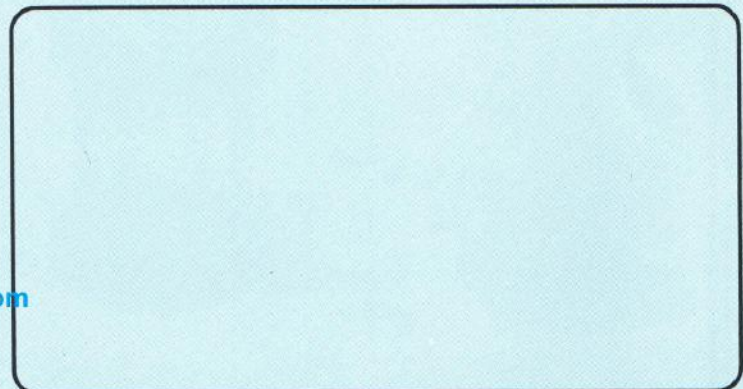
Plot No-20, Door No-40, Sri Venkata Subramaniya Nagar

1<sup>st</sup> Main Road, Valasaravakkam, Chennai – 600087

Mob: +91-7550073651 / +91-9444173651 / +91-9962636486

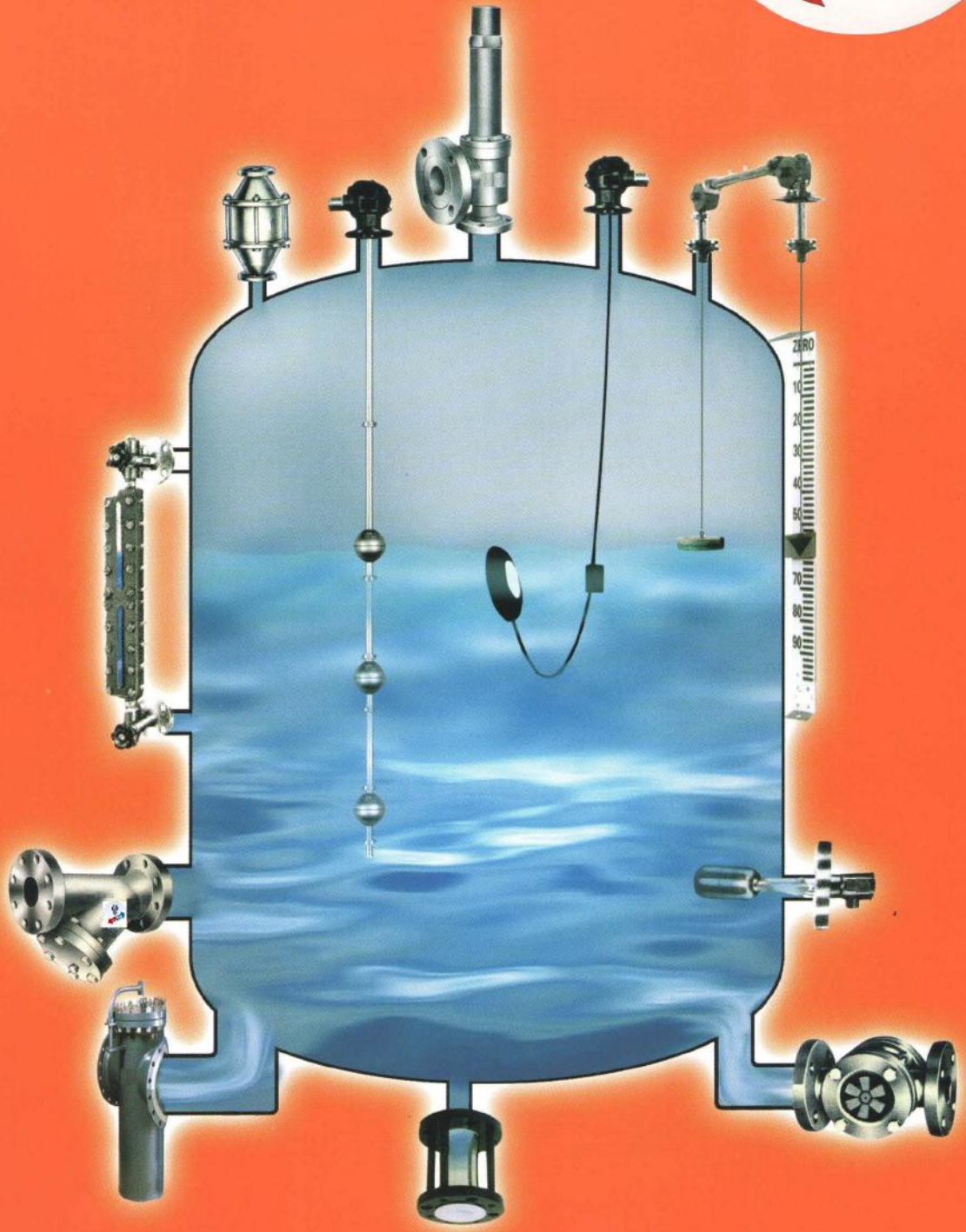
E-Mail : kannan@vkprocess.com / sales@vkprocess.com

Web: [www.levelandstrainer.com](http://www.levelandstrainer.com) / [www.strainersmanufacturer.com](http://www.strainersmanufacturer.com)





for PROCESS CONTROL APPLICATION



**VEEKAY PROCESS INSTRUMENTS**  
(Manufacturers & Exporter of Process Instruments)

Plot No.20 Door No 40, SRI VENKATA SUBRAMANIYA NAGAR, 1<sup>ST</sup> MAIN ROAD  
VALASARAVAKKAM, CHENNAI - 600087 Mobile : 7550073651 / 9444173651 / 9962636486  
E-MAIL : kannan@vkprocess.com / sales@vkprocess.com  
Web : levelandstrainer.com www.strainersmanufacturer.com



# For Process Control Application

## LEVEL GAUGES / LEVEL INDICATORS



TUBULAR - I



TUBULAR VALVE



REFLEX



TRANSPARENT



MAGNETIC-FOLLOWER



MAGNETIC ROTQ



FLOAT AND BOARD

## LEVEL SWITCHES / LEVEL CONTROLLERS



TOP-M-MINI-SS



TOP-M-STD-SS



TOP-M-SS-CB



SIDE MOUNTED-STD



TOP-M-BALLON



TOP-MON-STD-PP



TOP-M-MINI-PP

## SIGHT GLASSES / SIGHT FLOW INDICATORS



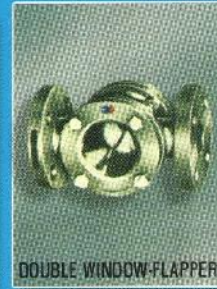
FULL VIEW-STD



FULL VIEW-TEFLON



DOUBLE WINDOW-STD



DOUBLE WINDOW-FLAPPER

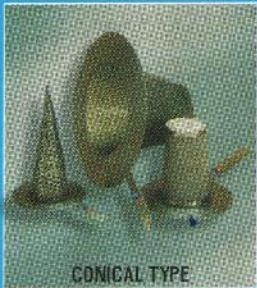


DOUBLE WINDOW-RW



DOUBLE WINDOW-RA

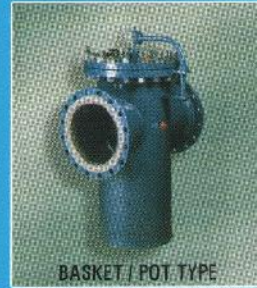
## STRAINERS / FILTERS



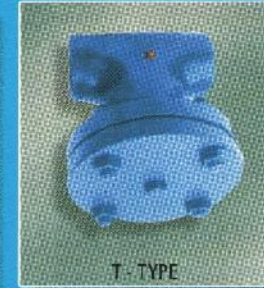
CONICAL TYPE



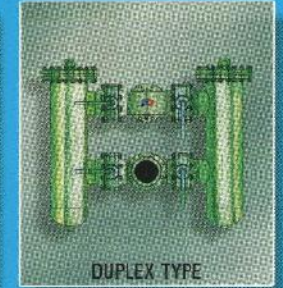
Y-TYPE



BASKET / POT TYPE



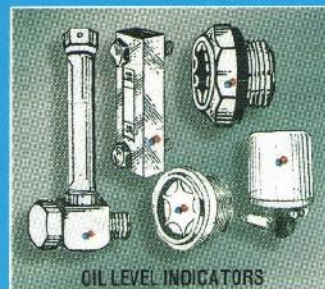
T-TYPE



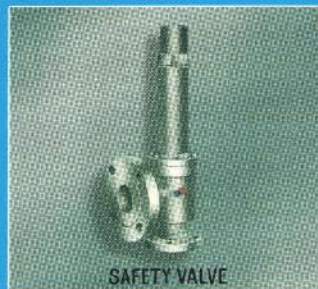
DUPLEX TYPE



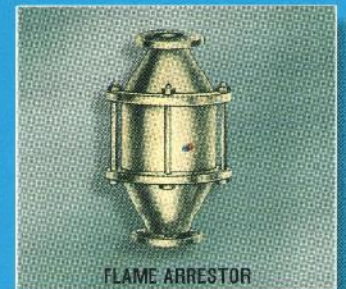
SPARE TOUGHENED GLASSES



OIL LEVEL INDICATORS



SAFETY VALVE



FLAME ARRESTOR



# VEEKAY PROCESS INSTRUMENTS

(Manufacturers & Exporter of Process Instruments)

Plot No.20 Door No 40, SRI VENKATA SUBRAMANIYA NAGAR, 1<sup>st</sup> MAIN ROAD  
VALASARAVAKKAM, CHENNAI - 600037 Mobile : 7550073651 / 9444173651 / 9962636486





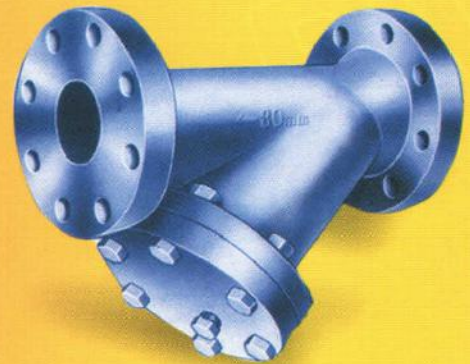
# VK

Manufacturers & Exporters of Strainers

## *a great name in filtration*

### *VeeKay Strainers for process Application*

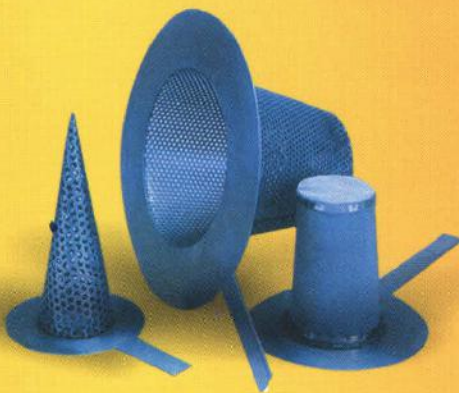
**Y - Type  
Strainers**



**T - Type  
Strainers**

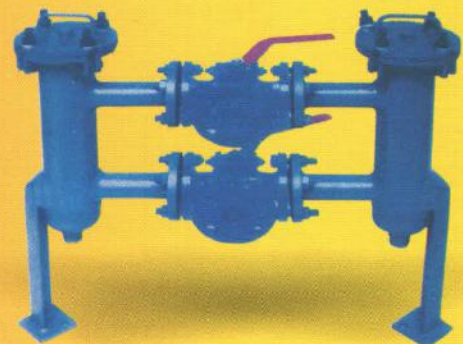


**Fabricated  
Single  
Strainers**



**Temporary  
Strainers**

**Duplex Type  
Strainers**





**VeeKey** offers a comprehensive range of **BASKET, DUPLEX, 'Y', CONICAL and TEE** type Strainers for increased life of your pump, valves and other flow control equipments by straining impurities from water, steam, oils, paint and chemicals of every kind. This catalog reveals a broad range of the types and sizes of standard line strainers manufactured by us. Custom made strainers can also be designed and manufactured to meet your special requirements.

## Screen and Basket facts

### Perforation:

Depending upon the thickness of the metal, 0.020" thru 1" perforation is available. In the case of metal or stainless steel, the smallest perforation available are usually twice the thickness of the metal. Rather than the use of light gauge sheet metal which would be necessary in obtaining exceptionally small perforations, we suggest heavy gauge perforated metal screens with large perforations lined with wire mesh cloth. This is not necessary for small strainers where lighter gauge metals are satisfactory.

### Mesh:

The term "Mesh" applies to woven wire cloth and should not be confused with perforated sheet metal. Mesh screens are satisfactory for small size cast strainers, but are unsuitable for longer strainers except as a liner for perforated metal basket or screen. Mesh screens are primarily furnished for very fine straining with openings so fine they cannot be obtained in perforated metal. Example: 100 mesh means 100 vertical and 100 horizontal strands of wire to the square inch, resulting in 10,000 openings of 0.0055 sq. inch.

Ratio or Capacity: The 6 to 1 ratio means that the open area of the Screen or Basket should be equal to six times the cross-sectional area of the corresponding pipe size.

Diameter of holes	Free Straining area factor	Diameter of holes	Free Straining area factor
1/64	0.196	5/64	0.371
1/32	0.277	3/32	0.304
3/64	0.283	7/64	0.385
1/16	0.307	1/8	0.307

Strainer Size	Appx. Screen area in sq. inches	
	Y type	Basket type
1"	13	25
1½"	28	57
2"	51	101
2½"	080	159
3"	115	229
4"	204	407
5"	319	636
6"	458	917
8"	815	1630
10"	1274	2547
12"	1835	3668

Net free Straining area = Free straining area factor X screen area  
 The net free straining area of 1" Y-strainer with hole size of 7/64" is 13x0.385=5.005 sq.inch.

100 Mesh - 30% O.A. 0.006" Openings
80 Mesh - 36% O.A. 0.008" Openings
60 Mesh - 38% O.A. 0.010" Openings
40 Mesh - 41% O.A. 0.016" Openings
30 Mesh - 45% O.A. 0.022" Openings
20 Mesh - 49% O.A. 0.035" Openings
0.027" Dia. - 23% O.A.
0.033" Dia. - 23% O.A.
3/64" Dia. - 36% O.A.
1/16" Dia. - 37% O.A.
3/32" Dia. - 39% O.A.
1/8" Dia. - 40% O.A.
5/32" Dia. - 58% O.A.
3/16" Dia. - 50% O.A.
1/4" Dia. - 40% O.A.

## SCREEN OPENING FOR STRAINERS



## Strainer Selection

VeeKey Engineers have observed that to keep the pressure drop within reasonable limits and to have effective straining it is necessary that the free straining area will be at least three times the pipe cross sectional area in the case of Y-Strainers and six times in the case of Basket type strainers.

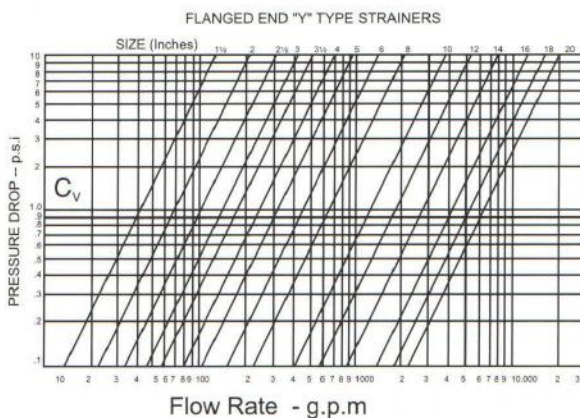
Select the anticipated clogging % at the left of the chart. The example shows a basket 75% clogged. Then, follow that until the curve is intersected. From that point follow downward to the scale along the bottom to read the pressure drop multiplying factor, in this case 4. The resulting pressure drop across the basket at 75% clogged is four times as great as that for a clear basket.

**Example:** How much is the pressure drop through a 12" Y" strainer for a flow of 1000 GPM of water at ambient temperature with 1/8" perforated basket which is 75% clogged? Find the pressure drop for a clean basket from the curve. At 1000 GPM it is 0.3 psi. As described, the multiplying factor for a 75% clogged basket is 4. The pressure drop is then 0.3 psi. x 4 = 1.2 psi.

Select the anticipated clogging % at the left of the chart. The example show a basket 75% clogged. Then, follow that until the curve is intersected. From that point follow downward to the scale along the bottom to read the pressure drop multiplying factor, in this case 4. The resulting pressure drop across the basket at 75% clogged is four times as great as that for a clear basket.

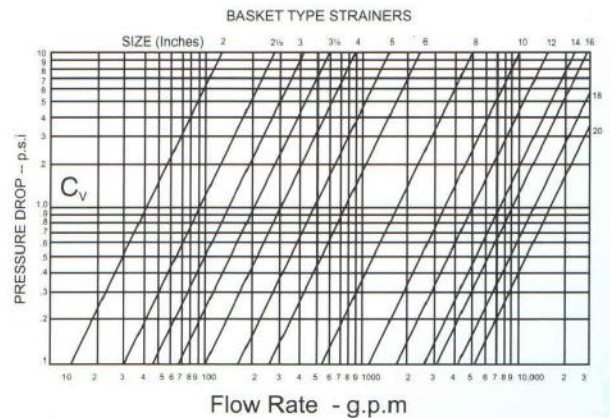
**Example:** How much is the pressure drop through a 12" Basket strainer for a flow of 2500 GPM of water at ambient temperature with 1/8" perforated basket which is 75% clogged? Find the pressure drop for a clean basket. At 2500 GPM of water the pressure drop is 0.2 psi. As described, the multiplying factor for a 75% clogged basket is 4. The pressure drop is then 0.2 psi. x 4 = 0.8 psi.

### PRESSURE DROP FALNGED END Y- STRAINER



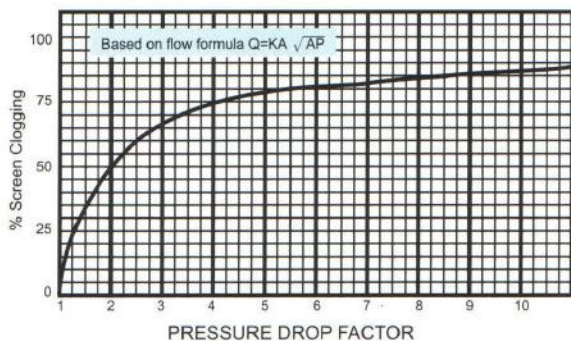
These charts are based on the flow of clean water through 0.033" - 1/4" perforated metal screens.

### BASKET TYPE STRAINER

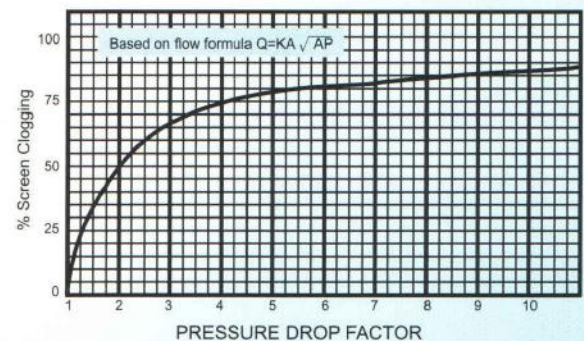


These charts are based on the flow of clean water through 0.033" - 1/4" perforated metal screens.

### THEORETICAL PRESSURE DROP CURVE FOR SCREEN CLOGGING



### THEORETICAL PRESSURE DROP CURVE FOR SCREEN CLOGGING



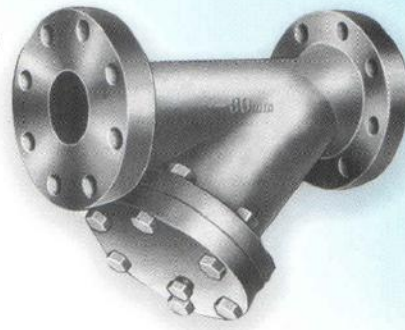


## Y- Strainer

**VeeKay** make Y-type strainers are designed for long service under the exacting conditions created by high temperature and pressure. Installation of the strainer before any automatic equipment will insure trouble free service and avoid costly repairs or replacements, so often caused by the introduction of foreign matter in pipelines.

**Feature:** All sizes feature a bolted cover machined to securely receive the screen cover gaskets designed to high temperature service. Covers are normally furnished with blow-off tapping. Blind covers are available.

**Screen:** Heavy, gauge perforated stainless steel normally, furnished with spot-welded seams. For exceptionally, fine straining, we suggest perforated screen lined with wire mesh.



<i>Material Of Consturction</i>	:	<i>CS/CI/SS304/SS 316/ 216 WCB And as per customer's request.</i>
<i>Connection</i>	:	<i>Screwed / Flanged / Any international standard</i>
<i>Size</i>	:	<i>Screwed : 15 NB - 50 NB Flanged : 15 NB - 900 NB</i>
<i>Other Size</i>	:	<i>As per customer's request</i>
<i>Free straining area</i>	:	<i>Minimum of three times the pipe cross-sectional area</i>

## Basket Type Strainer

**VeeKay** make basket type strainers are used to strain foreign matter form pipe line and provide inexpensive protection of costly pumps, meters, valves and similar mechanical equipment. They are available in a variety of materials. They can be specified for drinking water, cooling water, hot water system and sea water. Just a few application in the chemical process industry, are Brine, Paint, Heat Exchanger, condensers , fuel oil, Organic and Inorganic chemicals.

### Features:

**VeeKay** Basket Strainer have been designed for applications where easy maintenance and large capacity straining area are needed. The Machined Basket with gasket eliminates particle by-pass with the appropriate wire mesh, these strainers can be used to strain particles as small as 5 microns.



<i>Material Of Consturction</i>	:	<i>CS/CI/SS304/SS 316/ 216 WCB And as per customer's request.</i>
<i>Connection standard</i>	:	<i>Flanged / Any international</i>
<i>Size</i>	:	<i>15 NB - 900 NB</i>
<i>Other Size</i>	:	<i>As per customer's request</i>
<i>Free straining area</i>	:	<i>Minimum of six times the pipe cross-sectional area</i>



## Duplex type Strainers

**VeeKay** Duplex type strainers are designed for use in fluid handling systems where the flow cannot be shut down for Basket cleaning such as cooling water, pumps, compressors, condensers, fire line, fuel lines lubricating systems, salt and fresh water systems, chemical process systems and positive suction head service.

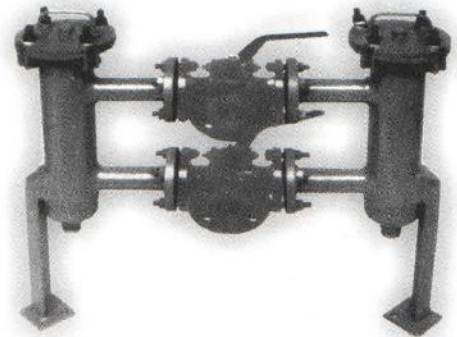
**Features:** Duplex type strainers feature a single shaft drive to operate the flow diverter valves. Baskets are gasketed and securely positioned to prevent particles by-pass. The large capacity Baskets provide generous open area ratio. The single Basket design is easily and quickly cleaned.

**Material Of Consturction** : CS/CI/SS304/SS 316/ 216 WCB  
And as per customer's request.

**Connection** : Flanged / Any international standard

**Size** : 25 NB - 600 NB

**Other Size** : As per customer's request



## Tee Type Strainer

**VeeKay** make Tee type strainers are designed to remove particles from pipelines where a compact accessible strainer is needed for protection of pumps, valves and similar equipments.



**Material Of Construction** : CS/CI/SS304/SS 316/ 216 WCB  
And as per customer's request.

**Connection** : Weld able end

**Size** : 50 NB - 600 NB

**Other Size** : As per customer's request

## Temporary Strainers

**VeeKay** specifically designed for the filtration of debris, for the protection of fluid and Gas handling equipment during commissioning and start up periods of plant.

The strainers are easily installed between flange faces without any modification to the surrounding pipe work and without the need for special spool pieces.

Of roust design these strainers are constructed work at high differential pressure. The strainer is clearly seen to be in position by virtue of its signal arm, elongated for easy identification.

The flow normally passes from inside to out, collecting debris in the cage rather than in the pipe facilitating removal. If required strainers can be manufactured for reverse flow or to suit customer specification.



**Material Of Consturction** : CS/SS304/SS 316  
And as per customer's request.

**Size** : 40 NB - 600 NB

**Other Size** : As per customer's request





## OTHER VEEKAY PRODUCTS

LEVEL GAUGES

MAGNETIC LEVEL INDICATORS

OIL LEVEL INDICATORS

LEVEL SWITCHES

SIGHT FLOW INDICATORS

SAFETY VALVES

THERMOWELLS

BALL VALVE

BALL FLOAT VALVE

U-TUBE MANOMETER

ALL TYPE OF TOUGHENED BOROSILICATE GLASSES



## VEEKAY PROCESS INSTRUMENTS

(Manufactures & Exporters of Strainer)

Plot No-20, Door No-40, Sri Venkata Subramaniya Nagar

1<sup>st</sup> Main Road, Valasaravakkam, Chennai – 600087

Mob: +91-7550073651 / +91-9444173651 / +91-9962636486

E-Mail : kannan@vkprocess.com / sales@vkprocess.com

Web: [www.levelandstrainer.com](http://www.levelandstrainer.com) / [www.strainersmanufacturer.com](http://www.strainersmanufacturer.com)

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