

# ASVIN STRAINERS

*For Process Industries*

**ASIAN INDUSTRIAL VALVES AND INSTRUMENTS**, manufacturers of Valves and Instruments for process industries, to-day is recognised as the most diversified manufacturer of speciality pipeline equipment in India. The company uses high-technology techniques in value engineered industrial straining and filtration equipment. **ASVIN**, a premium supplier of quality equipment designed to control industrial fluids in power plants, petrochemical, refineries, steel mills, sugar, fertilisers, paper, cement, airconditioning, food processing plants where process applications are found. The ranges of **ASVIN** strainers are specifically designed to meet customer requirement which may include high pressure applications or where non-standard materials of construction are required. As standard they are available in 1" to 42" Sizes. Connections - socket weld, threaded or with flanged. They are fabricated to ASME sec. VIII Div-I. On request, Asvin can design and fabricate special strainers to other pressure vessel design code, including ANSI B31.3 and ANSI B31.8. The body and basket can be PVC, PP, Carbon steel, Stainless steel, Monel etc. **ASVIN** strainers are designed to reduce pressure drop to a minimum.

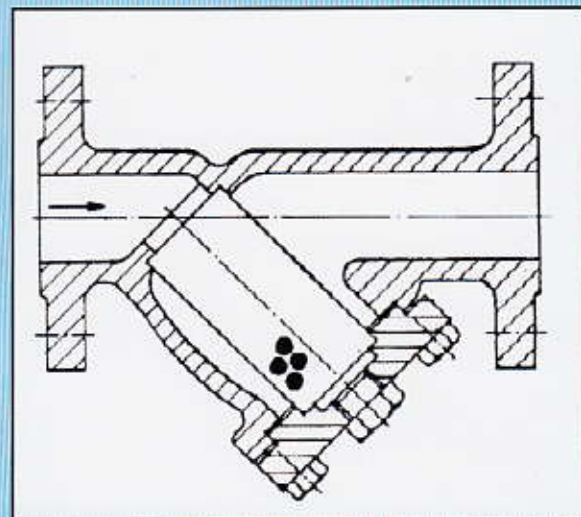
### TYPES OF ASVIN STRAINERS

- Y Strainer
- Tee Strainer
- Bucket / Basket Strainer
- Simplex & Duplex Strainer
- Self Cleaning Strainer
- Temporary Strainer  
(cone, basket, flat and perforated)

**ASVIN** Y Strainers are the economical way of protecting pipeline equipment from harmful debris. These strainers have been designed to give optimum dynamic performance combined with enhanced reliability and ease to maintenance. **ASVIN** Y strainers are an inexpensive solution to a straining problem. Ideally used in steam or air application, but can also be used on liquids when dirt load or frequency of cleaning is very low.

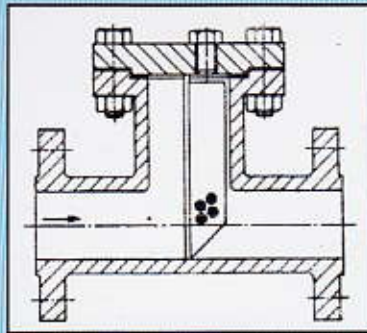
### APPLICATION

The presence of foreign particles in an equipment may seriously affect its dependability. The installation of a strainer close to the inlet side of valve is the best means of preventing entrance of pipe chips, welding slag, scale or sediment into valve, provided the screen is periodically removed for cleaning.



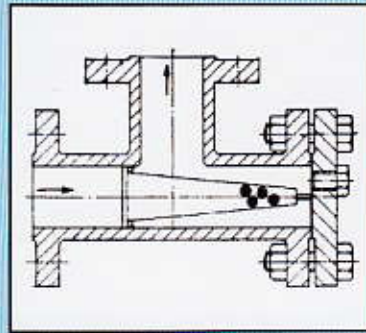
*Asvin Y Strainer - flanged*

*ASVIN Tee Strainer*



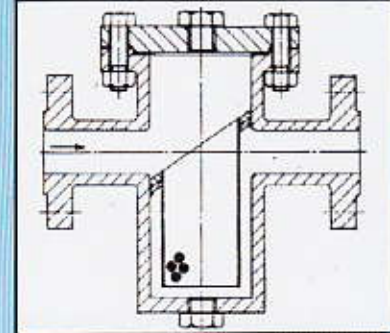
*V Basket type*

*ASVIN Tee Strainer*



*Cone basket type*

*ASVIN Bucket Strainer*



*Slope Top basket type*

### *ASVIN Bucket Strainers*

This range of *ASVIN* in fabricated bucket strainers is specifically designed to meet customer requirements which may include high pressure applications or where non-standard material of construction are required. The standard baskets are constructed of perforated stainless steel plate with hole size or mesh liner to suit customer requirement. Available both straight and offset design with slop top type, flat top type and angle basket type.

### *ASVIN simplex and duplex strainers*

*ASVIN* simplex strainers provide quick economical means of removing debris from a system. They incorporate a quick opening cover which requires no tools, no spillage on removal and will withstand varying pressure differential. The range of *ASVIN* duplex strainers incorporates two strainer baskets and one integral valve which allows flow through either basket, enabling basket to be cleaned without a shut down in-flow.

### *ASVIN Self cleaning Strainers*

An in-line strainer in which the fluid passes through a wedge wire element from outside to inside, leaving debris on the outer surface of the element. On reaching a predetermined differential pressure, the element is rotated against a pair of stationary knife edged cleaning blades. The debris is collected in the strainer sump and periodically removed. During this process disruption to flow is kept to a minimum. All operations may be carried out manually.

### *Optional Accessories*

- Pressure differential gauge or switch
- Actuator and valve
- Quick open closure

## ASVIN Standard Mesh for Straining

Mesh / inch *	Wire Dia (mm)	Aperture (mm)/ Mesh	Opening Area % age
2	1.80	10.90	73.66
3	1.60	6.866	65.76
4	1.20	5.15	65.77
5	0.91	4.17	67.38
6	0.80	3.433	65.76
8	0.60	2.575	65.77
10	0.55	1.990	61.38
12	0.50	1.616	58.28
14	0.45	1.362	56.35
16	0.40	1.188	56.00
18	0.35	1.060	56.42
20	0.30	0.970	58.33
26	0.28	0.696	50.75
30	0.25	0.596	49.55
40	0.21	0.425	44.79
50	0.19	0.318	39.18

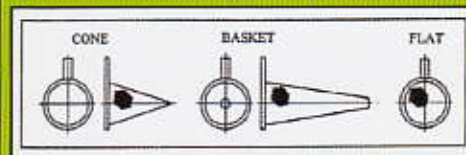
Mesh / inch	Wire Dia (mm)	Aperture (mm)/ Mesh	Opening Area % age
60	0.15	0.273	41.58
70	0.14	0.223	37.76
80	0.12	0.198	38.89
90	0.11	0.172	37.14
100	0.10	0.154	36.75
120	0.08	0.132	38.89
140	0.07	0.111	37.43
150	0.065	0.104	37.72
160	0.065	0.094	35.06
180	0.053	0.088	38.89
200	0.053	0.074	33.95
250	0.04	0.061	36.04
300	0.035	0.049	33.49
325	0.03	0.048	37.72
350	0.03	0.042	33.49
400	0.025	0.0385	36.75

\* Number of opening per linear inch.

Note : Opening / Screen Aperture depends upon wire dia of mech. ASVIN standard details are given above. Various Micron sizes are available to suit following size / opening.

Perforated steel hole dia (22 G)					
Hole dia	1/16"	1/8"	3/16"	1/4"	3/8"
Centre	1/8"	3/16"	1/4"	3/8"	9/16"
% Open per sq.inch.	23	40	51	40	40

### ASVIN temporary strainers



### ASVIN - Range of Products

#### VALVES

- \* SAFETY / PRESSURE RELIEF VALVES
- \* THERMAL RELIEF VALVE
- \* ATMOSPHERIC RELIEF VALVE
- \* PRESSURE REDUCING VALVE / STATION
- \* PRESSURE CUM VACUUM RELIEF VALVES
- \* BREATHER VALVES
- \* EXCESS FLOW CHECK VALVES / SHUT OFF VALVES
- \* UNDERGROUND SAFETY VALVES FOR WATER TANK/ WATER FLOW CANAL AS PER BS - 4558 : 1983
- \* NON - RETURN VALVES / BALL VALVES
- \* NEEDLE VALVES / MANIFOLDS / THROTTLING VALVES
- \* FLUSH BOTTOM VALVES

#### TANK EQUIPMENTS

- \* TANK BLANKETING VALVES
- \* EMERGENCY PRESSURE RELIEF VALVES (Air Vent)
- \* GAUGE HATCHES (Lock Down / Spring Loaded)
- \* VACUUM BREAKERS

#### INSTRUMENTS

- \* LEVEL GAUGES (Tubular / Reflex / Transparent)
- \* LEVEL INDICATORS (Magnetic / Float & Chord)
- \* FLOW - ELEMENTS (Orifice / Flow Nozzles / Venturies)
- \* ROTOMETER (BY-PASS / ONLINE)
- \* MANOMETERS
- \* LEVEL SWITCHES
- \* THERMOWELLS
- \* CONDENSING POT
- \* CONSTANT HEAD CHAMBER
- \* AIR / MOISTURE SEPARATOR

#### PIPELINE EQUIPMENTS

- \* STEAM TRAPS / AIR TRAPS
- \* STRAINERS ('T' / 'Y' / Basket / Simplex / Duplex type)
- \* FLAME / DETONATION ARRESTERS
- \* SIGHT GLASSES (Full view / Double window / Flapper / Rotating Wheel)
- \* RUPTURE DISC

Available with all reputed Third party Inspection Agencies, Viz,  
ABS, BHEL, Bax Council, Bureau Veritas, Controller of Explosives, DNV, EIL, IBR, IRS, Lloyds,  
QUEST, TUV, MECON, NPC, RITES, SGS, TPL, CE Marking etc.,

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