



TYPE GT IN-LINE BASKET STRAINERS

Type GT in-line basket strainers have been developed to provide simple, robust and cost-effective pipeline strainers which are effective in protecting downstream equipment such as pumps, instruments and valves from damage caused by particulate matter carried in the liquid stream.

Operating Pressure

The standard unit is suitable for 750 kPa operating pressure and is tested to 1125 kPa. The High Pressure unit is suitable for 1000 kPa operating pressure, and is tested to 1500 kPa. Higher pressure versions can also be designed and made to meet almost any pipeline design requirement.

Materials of Construction

The GT range is available in carbon steel, 304 stainless steel and 316 stainless steel. Carbon steel units are supplied untreated internally, and with primer and two coats of enamel painting externally. Stainless steel units are supplied in glass bead blast, matt industrial finish. In all cases, the internal strainer basket, as well as the basket filtration liner if applicable, is in 304 stainless steel.

Cover Securing Mechanism

Smaller standard GT strainers are supplied with gripnut closures to permit easy no-tools access to strainer basket. Larger sizes, as well as higher pressure versions of the GT strainer range are supplied with swingbolt closures. The gripnuts allow for manual loosening and tightening of the closures quickly and safely, without the need for tools. Swingbolts need to be tightened using a bar for leverage to ensure a good seal. Gripnuts and swingbolts are individually tightened to ensure quick leak-free closure.

Connections

The GT range of strainers can be ordered with various inlet and outlet connections, most commonly BSP female threaded on smaller units and SABS 1123 table 1000/3 flanges in larger units. To special order, almost any commercially available type of connector or flange can be supplied.

Filtration Rating

GT strainers have a removable strainer basket in which particulate matter in the liquid stream is trapped and retained. The basket can then be manually cleaned and returned to service in the housing. The basket is made from stainless steel perforated plate which provides mechanical support to the stainless steel filtration liner. This liner can be rated for filtration of 100 micron or coarser. Basket strainers are inherently not suitable for filtration at finer than 100 micron, but can be purpose-designed for fine filtration if this is required.

Max Water Flow Rate (3 m/s port velocity):

Max clean-basket pressure drop at flow rates below is 7 kPa

model 020 55 l/min	model 050 350 l/min
model 025 85 l/min	model 080 900 l/min
model 032 140 l/min	model 100 1400 l/min
model 040 220 l/min	model 150 3100 l/min

Viscosity correction:

Multiply water pressure drop above by factor

Viscosity in centistokes	Unlined	<60 mesh	60 - 80 mesh	80 - 100 mesh
500	1,8	2,1	2,4	2,6
1000	2,1	2,4	2,6	2,8
2000	2,4	2,7	2,9	3,2
3000	2,7	2,9	3,2	3,5

“Standard” Strainer Range

model 020 20mm NB ports	model 050 50mm NB ports
model 025 25mm NB ports	model 080 80mm NB ports
model 032 32mm NB ports	model 100 100mm NB ports
model 040 40mm NB ports	model 150 150mm NB ports

Custom Designed Strainers

Purpose-designed strainers can be designed and manufactured for most requirements. Some of the more common needs we meet include ASME VIII coded construction, steam jacketing, pressures up to 40 bar, line sizes up to 700mm and special instrumentation.