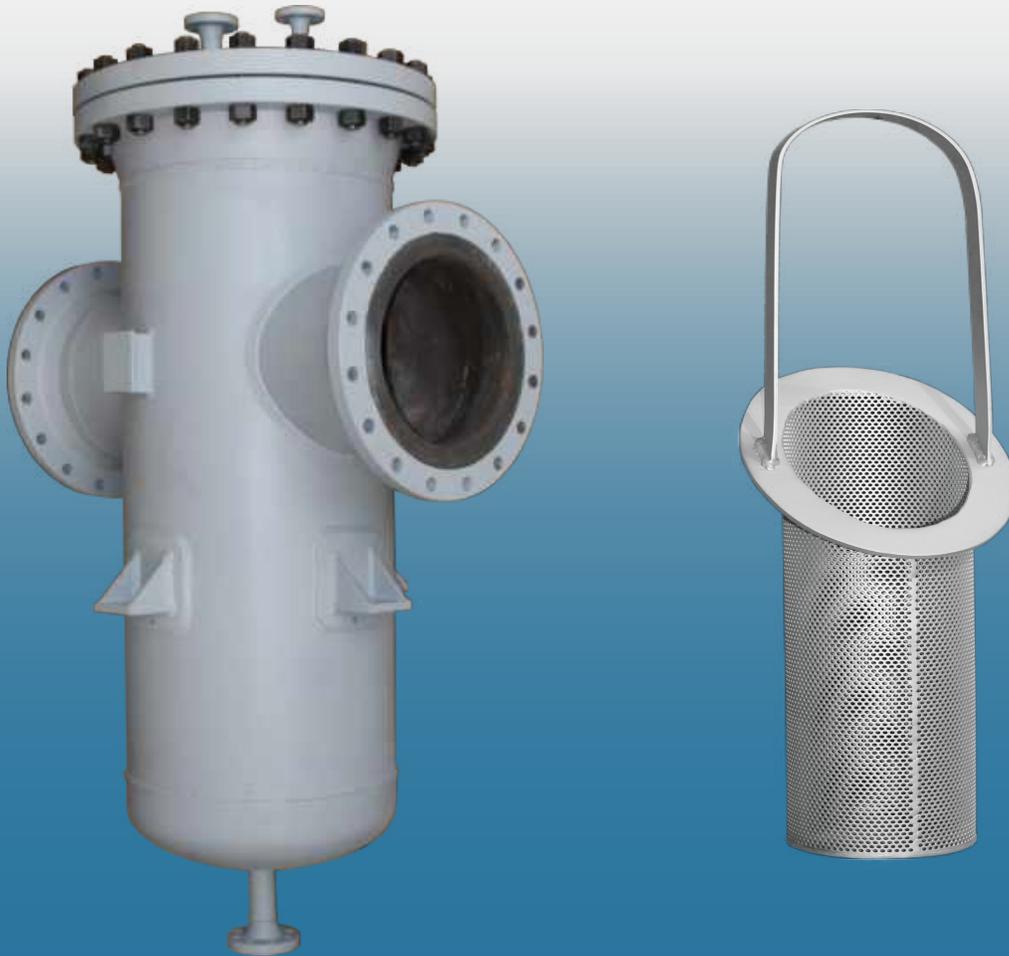




Fabricated Simplex Strainers Types 55, 56, and 58

Remove solid particulates from
Liquids • Gas • Steam



*Refining • Petrochemical • Power
Oil & Gas*

Protect Pumps, Compressors, Turbines, Meters,
Mechanical Equipment

WINSTON / ROYAL GUARD CORPORATION



Fabricated Simplex Strainers

Types 55, 56, & 58

Types 55 and 56 heavy duty fabricated **simplex strainers**, many times referred to as basket strainers and pipeline strainers, are installed to protect compressors, pumps, meters, and other downstream equipment by removing potentially damaging solids from liquids, gas, and steam. The large internal basket offers a low pressure drop with a large contaminant holding capacity. The **Type 55** offers an inline nozzle arrangement for a straight through flow. The **Type 56** has an offset inlet and outlet design.

Type 58 large horizontal simplex strainers are typically installed in locations where there may be limited overhead space for basket removal and in cases where an extremely large basket total open area is required.



Industrial simplex strainer applications include natural gas, process gas, chemicals, process liquids, liquid hydrocarbons, water, steam, and others in the pipeline, refining, chemical, petrochemical, pulp and paper, and other industries. Fabricated strainers are extremely robust and provide heavy duty service to industries where a large basket design is required for maximum containment of solid contaminants.

Standard material for the simplex strainer body and flanges is carbon steel with 304 stainless steel basket (carbon steel, 316 stainless steel, and other alloys are optional). Some available materials are 300 series stainless steels (all or wetted parts only), Monel®400, Nickel 200, Hastelloy®B and C276, Inconel®, Incoloy®, and chrome moly. Except for chrome moly, the basket can be manufactured in any of these materials.

The Internal perforated strainer basket is manufactured from heavy materials and seam welded for maximum strength. A complete selection of **perforated metal and wire cloth** is available for various openings and retention requirements, and in many alloy materials. Typical strainer basket openings are 80 mesh (0.0070" opening) for gas service, 40 mesh (0.0150" opening) for steam, and perforated with 1/8" diameter holes on 3/16" centers for process liquids. Strainer baskets will have perforated support for most wire mesh sizes. Wedge wire baskets can also be provided.

The Top cover of the simplex strainer is available as a bolted blind flange with lifting handle or davit, or a quick-opening closure for easier and faster access for basket cleaning. Inlet/outlet styles include flanged or butt weld.

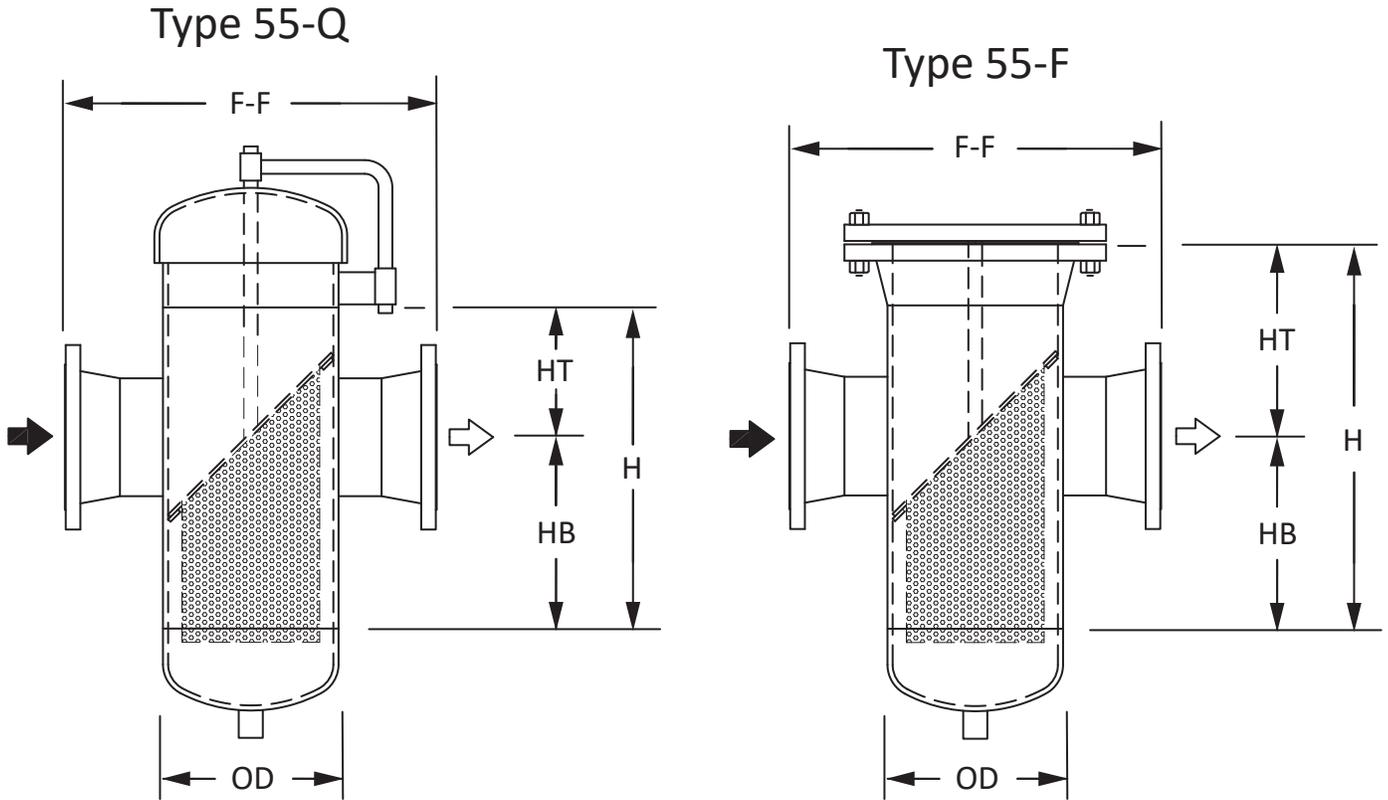
Options include ASME Code stamp, NACE compliance, quick-opening closure, open bottom basket for blowdown, support legs or skirt, lifting eye(s), differential pressure connections, vent, grounding tabs, steam jacket, insulation rings, painting per specification, and other requirements tailored to the customer's needs.

ASME Code Certified: Winston/Royal Guard is an ASME Section VIII, Division 1 Code certified manufacturing facility with National Board certification. Capabilities include all types of non-destructive testing with a rigidly controlled Quality Control system.

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Fabricated Simplex Strainers Types 55, 56, & 58



Dimensions are for 150# and 300# ANSI ratings:

SIZE NOZZLE (NOMINAL)	OD	H	HB	F-F	FLANGED COVER HT	QUICK-OPENING HT
1-1/2	3-1/2	16	8	16	8	5
2	4-1/2	16	8	16	8	6
3	6-5/8	18	8	22	10	8
4	8-5/8	22	10	24	12	11
6	10-3/4	28	14	26	14	14
8	12-3/4	28	14	32	14	17
10	14	34	18	34	16	19
12	16	38	21	36	17	22
14	18	47	29	40	18	24
16	20	51	31	42	20	26
18	24	55	33	48	22	28
20	24	58	36	48	22	30
24	30	66	41	54	25	36

Type 55-F
Basket



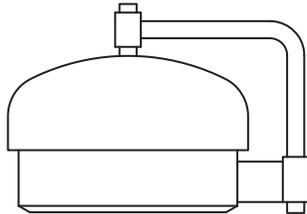
Dimensions are in inches. Tolerance is plus or minus 1/8". Strainer baskets have a 3:1 open area minimum with a standard perforated basket of 1/8" diameter holes on 3/16" centers. Perforated material is 40% open area.

Larger sizes and higher pressure ratings are available. Please contact factory.

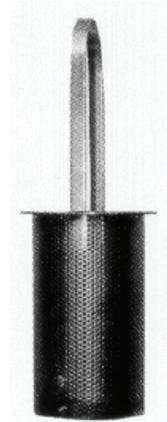
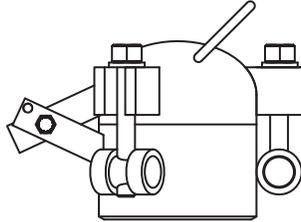


Fabricated Simplex Strainers Types 55, 56, & 58

Threaded High Pressure
Quick-Opening Closure

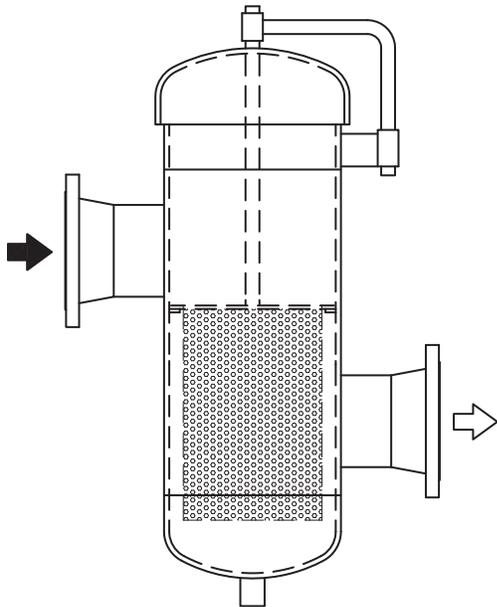


Hinged Swing-Bolt
Quick-Opening Closure
For Lower Pressure Ranges

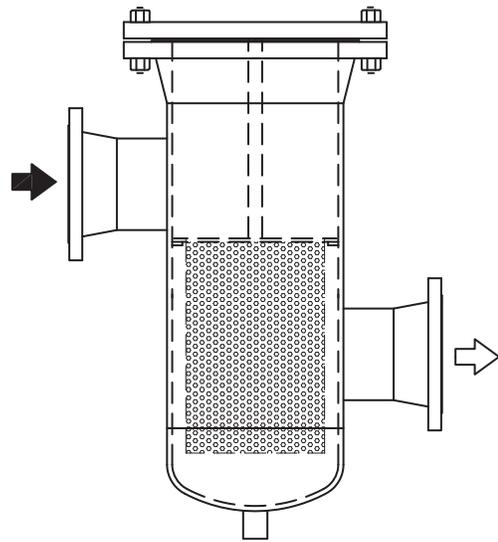


Type 56-F basket

Type 56-Q with
Flat Top basket



Type 56-F with
Flat Top Basket



Type 58FB-Q
Horizontal
Strainer

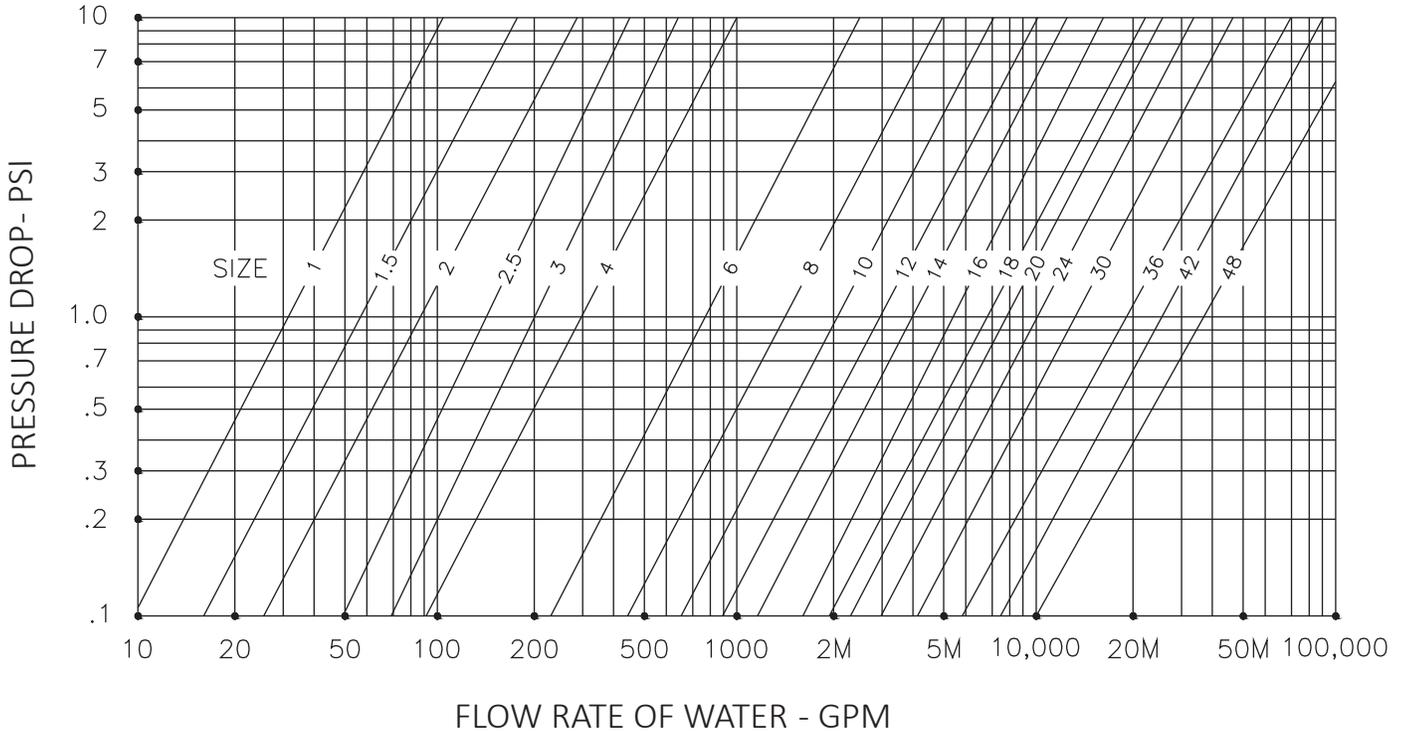


Fabricated Simplex Strainers

TYPE 55 FABRICATED SIMPLEX STRAINER

PRESSURE DROP

CLEAN PERFORATED BASKET WITH 1/8" DIAMETER HOLES



CORRECTION FACTOR

FOR LIQUIDS MORE VISCOUS THAN WATER OR WHERE A WIRE LINER IS ADDED, MULTIPLY PRESSURE DROP IN CHARTS BY:

VISCOSITY (SSU)	PERFORATED 1/8" DIA. HOLES	PERFORATED WITH WIRE CLOTH		
		40 MESH	60 MESH	80 MESH
30	1.00	1.32	1.53	1.62
270	1.30	1.61	1.83	2.00
385	1.44	1.76	2.00	2.20
500	1.58	1.92	2.13	2.41
1000	1.66	2.22	2.41	2.63
2000	1.86	2.41	2.72	2.91

FOR WATER USE 30 SSU

Specifications are subject to change without notice. 5-31-2022 (supersedes 7-26-2021)

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