GRE COMPOSITES FOOT VALVE

• *Axial guided disc* • *Inclines seat*

COMPOSITES PROLONG LIFE

No mineral build-up and rust, major factors in foot valve failure

DESCRIPTIONS

GRE composites foot valves are installed on the pump suction to prevent the pump column from draining upon pump shut down. The valve has a long back axial guide for reduced displacement with a synthetic rubber seal ring providing a drip-tight seal. ***Unique inclined seat design reduces accumulation of debris on the seat area.*** The globe type-full port body design plus light weight composites disc offer lower headloss and power consumption for the system. The main parts are made from composites material, spring and bolting are made from stainless steel, making GRE composites foot valve an excellent corrosion resistant pipeline equipment for water services.

DESIGN SPECIFICATIONS

- Flange with raised face, drilled according to ANSI 125/150, DIN PN10/16 or JIS 10K flanges
- Maximum working pressure
  - 21/2"-8" : 90 psi
  - 10"-16" : 60 psi
- Maximum working temperature : 60° C
- Maximum intermittent temperature : 90° C
- Inspection and testing per GRE standard :-
  - 100% hydrostatically shell tested at 1.5 x working pressure x Maximum
  - 100% sealing tested with water at 3.5 meters water column (5 psi)

DESIGN FEATURES

- Composites material provides excellent ***corrosion resistance.***
- Light weight composites disc provides ***lower headloss.***
- Light weight construction provides ***easy installation,*** especially in large size.
- Synthetic rubber seal ring provides ***tight sealing*** capability.
- Unique Inclined seat design ***reduces debris on valve's seat.***
- Screen and fasteners are AISI 304 stainless steel as standard.

HOW TO ORDER

In order to maximize compatibility of the valve with your specific application, it is recommended to ***specify type of liquid and piping system requirement.*** For GRE Composites Foot Valve selection, please use our check list form or contact our customer service department.

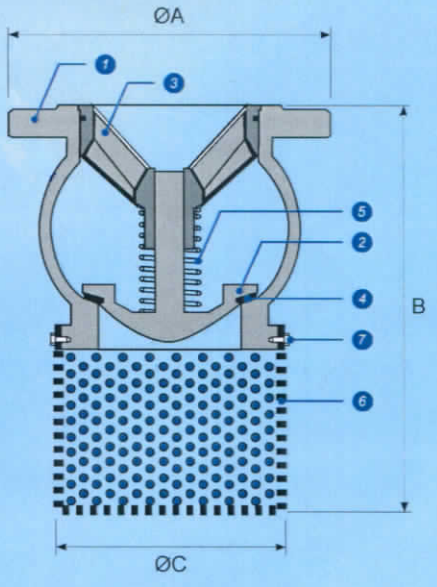
FIRST INTRODUCED IN 2003

DIMENSIONS AND WEIGHTS

Nominal Size		A	B	C	KG.
inch	mm	mm	mm	mm	
2 1/2	65	178	187	108	1.7
3	80	191	245	124	2.2
4	100	229	295	158	3.5
5	125	254	342	188	5.4
6	150	279	413	211	7.5
8	200	343	459	346	15.0
10	250	406	664	346	24.5
12	300	482	695	485	35.0
14	350	533	946	485	45.0
16	400	597	1064	485	65.0

LARGER SIZE AVAILABLE UPON REGUEST

The fiberglass are given for information and can be modified due to product development without prior notice.



MATERIALS OF CONSTRUCTION

Part No.	Description	Material
1	Body	Composites
2	Integral Disc&Stem	Composites
3	Guide	Composites
4	Seal Ring	NBR
5	Spring	SUS 304 Stainless Steel
6	Screen	Composites / SUS 304 Stainless Steel
7	Bolting	SUS 304 Stainless Steel

GRE COMPOSITES Y-TYPE STRAINER

• *Bolted cover* • *Y-Pattern body* • *Punched ss plate screen*

DESCRIPTIONS

GRE composites y-strainers are used in a wide variety of liquid straining applications in order to protect downstream pipeline equipment, that could be damaged or clogged by foreign matter, providing very cost effective solutions for costly pumping systems. The body and cover are made from composites material, screen is made from stainless steel, making GRE composites y-strainer an excellent corrosion resistant straining equipment for water services. Light weight construction also be perfectly used in plastic or GRP piping systems.

DESIGN SPECIFICATIONS

- Face-to-face length according to GRE standard.
- Flanges with reised face, drilled according to ANSI 125/150, DIN PN10/16 or JIS 10K.
- Maximum working pressure : 200 psi
- Maximum working temperature : 60° C
- Maximum intermittent temperature : 90° C
- Inspection and testing per GRE standard.
  - 100% hydrostatically shell tested at 1.5 x working pressure x Maximum

DESIGN FEATURES

- Composites material provides ***excellent corrosion resistance.***
- ***Light weight*** construction provides ***easy installation,*** reduces pipe supports, especially in large size.
- Smooth body seat & cover seating surface for the screen ensure ***perfect screening efficiency.***
- Off-centered blow down plug ensures nearly ***complete drainage.***

HOW TO ORDER

In order to maximize compatibility of the strainer with your specific application, it is recommended to ***specify type of liquid and piping system requirement.*** For GRE Composites Y-Strainer selection, please use our check list form or contact our customer service department.

FIRST INTRODUCED IN 2004

DIMENSIONS AND WEIGHTS

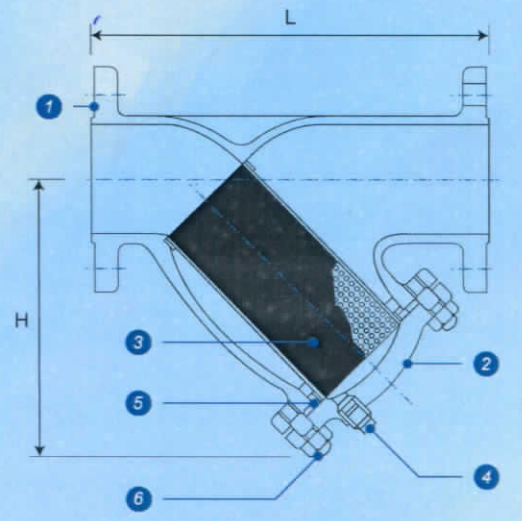
Nominal Size		L	H	KG.
inch	mm	mm	mm	
2	50	250	168	2.5
2 1/2	65	285	212	3.5
3	80	315	242	4.5
4	100	370	284	7.5
5	125	420	325	10.0
6	150	490	370	15.5
8	200	570	440	25.5
10	250	680	515	38.0
12	300	800	600	48.5

LARGER SIZE AVAILABLE UPON REGUEST

The fiberglass are given for information and can be modified due to product development without prior notice.

SCREEN DIMENSIONS

Size	Hole dia-mm	Pitch-mm
2"-8"	1.5	2.5
10"-12"	2.0	3.0



MATERIALS OF CONSTRUCTION

Part No.	Description	Material
1	Body	Composites
2	Cover	Composites
3	Screen	Composites/SUS 304
4	Plug	PVC
5	Gasket	Synthetic rubber
6	Bolting	SUS 304/Steel 8.8-HDG

GRE COMPOSITES WAFER CHECK VALVE

The Engineered Composites Non-Slam Check Valve

FIRST INTRODUCED IN 2004

2"-12"

Descriptions

GRE composites wafer check valves are used to prevent reverse flow of Fluid in piping systems. The compact wafer style one-piece body design with dual plate save installation space and provide quiet operation when compared to other conventional non return valves. An extremely light weight composites plate requires lower cracking pressure. The main parts are made from composites material, the metallic parts are made from stainless steel, making the GRE composites wafer check valve an excellent corrosion resistant pipeline equipment for water services. Light weight construction can also be perfectly used in plastic or GRP piping systems.

Design Specifications

- Wafer pattern with plain face
- For installation between ANSI 125/150, DIN PN10/16 or JIS 10K flanges
- Maximum working pressure : 200 psi
- Maximum working temperature : 60° C
- Maximum intermittent temperature : 90° C
- Inspection and testing per GRE standard
  - 100% hydrostatically shell tested at 1.5 x max. working pressure
  - 100% sealing tested with water at 200 psi

Design Features

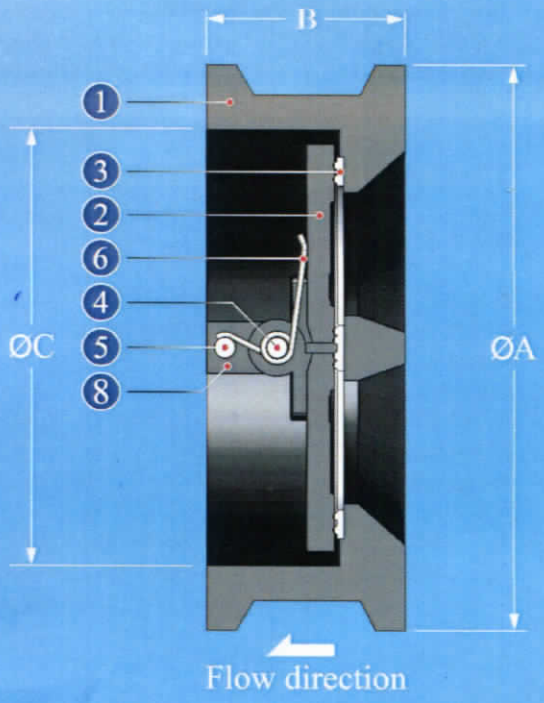
- Composites material provides excellent **corrosion resistance**
- Extremely **light weight,** 2-3% the weight of conventional swing check valves and 25% the weight of metallic wafer check valves, simplifies installation work, reduces pipe supports.
- Rigid construction from engineered composites material.
- Light weight composites plate requires **lower cracking pressure** & provides **lower head loss.**
- Light weight composites plate **reduces slamming and water hammer**
- 85 degree opening of the plate ensures **positive closing.**

How to order

In order to maximize compatibility of the valve with your specific application, it is recommended to specify type of liquid and piping system requirement. For GRE wafer check valve selection, please use our check list form or contact our customer service department.

Dimensions and Weights

Nominal size		A	B	C	
inch	mm	mm	mm	mm	kg
2	50	101	54	60	0.5
2 1/2	65	120	54	73	0.7
3	80	131	57	89	0.9
4	100	156	64	114	1.1
5	125	187	70	141	1.8
6	150	217	76	168	2.3
8	200	267	95	219	4.4
10	250	328	108	273	6.9
12	300	375	143	324	10.5



Materials of Construction

Part No.	Description	Material
1	Body	Composites
2	Plate	Composites
3	Seal	NBR
4	Hinge Pin	AISI 304 Stainless Steel
5	Stop Pin	AISI 304 Stainless Steel
6	Spring	AISI 304 Stainless Steel
7*	Bearing	AISI 304 Stainless Steel
8	Pin Retainer	Composites

*Not shown in the body's section