

Hydrasearch



Manufacturing the

DEMAND THE BEST

Strength · Reliability · Performance

Duplex 2205 stainless strainer line



ARCTIC STEEL

product line

Why Hydrasearch's Arctic Steel Strainers are superior to others

Out water strainers are cast with 2205 stainless steel. This provides an exceptional level of corrosion resistance. Additionally, our strainers undergo an electro polishing process which removes contaminants from the surface exposing the pure stainless steel. This provides a rich chromium film, as is evident by the shine to our stainless steel. This gives our already robust strainers a defense against corrosion that is superior to others on the market.



SISO

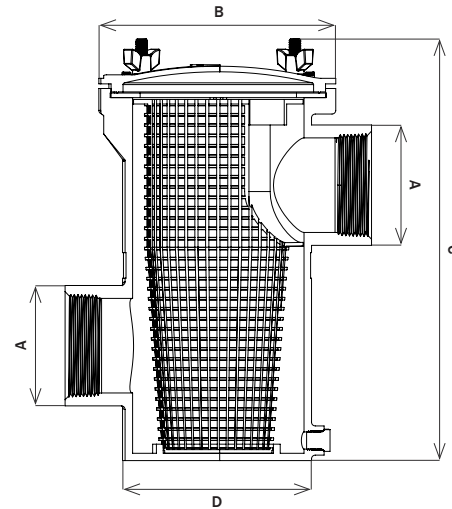
Side In Side Out Range (SISO)

- Free standing, base mounted.
- Offset inlet and outlet for improved performance.
- Electro-polished AISI 2205 cast stainless steel body.
- Solid electro-polished stainless steel lid.
- Secured by five (5) wingnuts for safe, quick and easy access. No tools required.
- Swing down eye bolts eliminates need to remove nuts.
- British standard pipe (BSP) (standard)
- National pipe taper (NPT) thread (available upon request)
- 1.25 inch and 1.5 inch come standard with full height, high impact resistant ABS basket.
- 2 inch, 2.5 inch, 3 inch and 4 inch come standard with a full height 316 stainless steel basket.
- Cast anode connection point to combat galvanic corrosion.
- Drain plug.
- Lower outlet position allows for applications that require a header tank or mounting above the waterline.

Available Options:

- Interchangeable clear polycarbonate lid.
- 316 stainless steel mounting brackets and extension arms.

SISO Dimensions



Product Specifications

Thread size NPT (inlet/outlet) (A)	Lid width (B)	Height (C)	Body width (D)	Approximate weight with solid lid (pounds)	Flow rate 1.45 PSI (GPM)	Flow rate 14.5 PSI (GPM)
SISO Strainers						
1 - 11.5 female/female	6	9.3	5.2	8	25	85
1.25 - 11.5 female/female	7.9	10.6	5.2	15	40	126
1.5 - 11.5 female/female	7.9	10.6	5.2	15.4	56	180
2 - 11.5 female/female	7.9	10.6	5.2	16	89	282
2.5 - 8 female/female	9.25	14.4	6.5	30	148	483
3 - 8 female/female	9.25	14.4	6.5	32.6	228	743
4 - 8 female/female	10.7	18.8	8.7	45.2	451	1450

Note: All dimensions are in inches and are for reference only
All flow rates calculated using a clean ABS basket and water

Manufactured from the highest quality electro-polished 2205 stainless steel



BISO

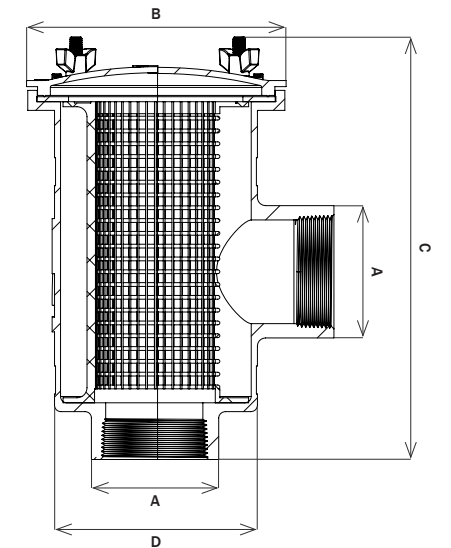
Bottom In Side Out Range (BISO)

- Electro-polished AISI 2205 cast stainless steel body.
- Solid electro-polished stainless steel lid.
- Secured by five (5) wingnuts for safe, quick and easy access. No tools required.
- Swing down eye bolts eliminates need to remove nuts.
- British standard pipe (BSP) (standard)
- National pipe taper (NPT) thread (available upon request)
- Full height, high impact resistant ABS basket.
- Cast anode connection point to combat galvanic corrosion.

Available Options:

- Interchangeable clear polycarbonate lid.
- 316 stainless steel basket.
- 316 stainless steel side mounting brackets and extension arms.

BISO Dimensions



Product Specifications

Thread size NPT (inlet/outlet) (A)	Lid width (B)	Height (C)	Body width (D)	Approximate weight with solid lid (pounds)	Flow rate 1.45 PSI (GPM)	Flow rate 14.5 PSI (GPM)
BISO Strainers						
1 - 11.5 male/female	5.6	8.3	3.7	6.8	37	114
1.5 - 11.5 male/female	5.6	8.3	3.7	7.1	86	272
2 - 11.5 male/female	6.7	10.7	5.5	14.8	128	427
2.5 - 8 female/female	7.9	10.7	5.5	13.7	169	569
3 - 8 female/female	9.25	13.1	6.5	27.6	257	792
4 - 8 female/female	10.7	18.7	8.7	40.8	487	1545
6 - 8 female/female	14.2	20.1	12.2	66.8	841	2718

Note: All dimensions are in inches and are for reference only
All flow rates calculated using a clean ABS basket and water

Advantages of Duplex 2205 Stainless Steel

Traditionally, aluminum bronzes had been well established with a good reputation for corrosion resistance in a marine environment. However, in recent years, metallurgy has developed superior metals known as Duplex stainless steels. These are created by increased levels of chromium, nickel, molybdenum, copper and nitrogen compared to the typical marine grade 316 stainless steel.

Benefits of Duplex Stainless Steel

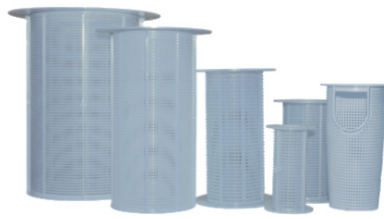
- Good weldability and workability
- High resistance to fatigue corrosion
- Resistance to stress corrosion cracking (especially salt water)
- High energy absorption
- Low thermal expansion and contraction
- High strength
- High resistance to chloride pitting and crevice corrosion
- The density allows for finer details when casting
- Less galvanic corrosion compared to bronze
- Bronze corrodes at an increased rate compared to Duplex 2205 in seawater where sulphides are present

Arctic Steel Strainer Accessories

Hydrasearch also produces a range of high quality spare parts and stainless steel accessories to ensure your engine room systems have the best available fittings. Part numbers for accessories can be found on our website or by contacting your Hydrasearch representative.



SISO
stainless steel baskets



ABS baskets



BISO
stainless steel baskets



clear polycarbonate lid



gaskets



solid cast lid



wingnuts



mounting brackets
and adjustable arm

