

**HART**

# Industrial Process Strainers



# An Ounce of Prevention... is Worth the Price of a Strainer!

## HART INDUSTRIAL BASKET STRAINERS

are used to protect sensitive downstream equipment from damage and premature wear by removing unwanted solids from process liquids.

HART Basket strainers feature a top loading basket so that trapped solids are easily disposed of and will not escape downstream during the cleaning process.

HART Basket strainers are available with quick release covers for quick and easy servicing without the use of tools.

HART Basket strainers come in a full range of threaded and flanged pipe sizes with baskets from 0.500" perforated sheet down to 0.003" mesh screen retention.



BF-Cast Iron



BF-Stainless Steel

### Standard Screens

Strainer Type	Pipe Size	Standard Screen	Opening
BT125 & 150	¾" to 1½"	20 Mesh	0.032"
BT125 & 150	2" to 3"	½" Perf.	0.031"
BF125 & 150	2" to 3"	0.045" Perf.	0.045"
BF125 & 150	4" to 20"	¼" Perf.	0.125"

### Sizes, Materials and Pressure Ratings

Strainer Type	Pipe Size	Material*	Psi @ 100°F	Gasket
<b>NPT Threaded Strainers</b>				
BT125	¾" to 3"	Cast Iron	200 psig	Buna N O Ring
BT150SS	¾" to 3"	316 Stainless Steel	200 psig	Viton O Ring
<b>Flanged Strainers</b>				
BF125	2" to 12"	Cast Iron	200 psig	Graphite
BF125	14" to 20"	Cast Iron	150 psig	Graphite
BF150B	2" to 6"	Bronze	225 psig	Teflon
BF150CS	2" to 12"	Carbon Steel	285 psig	Teflon
BF150SS	2" to 12"	Stainless Steel	275 psig	Teflon

\*Cast Iron is A126B;

\*Carbon Steel is A216-WCB

\*Stainless Steel is A351-CF8M;

\*Bronze is B-62



BT-Cast Iron

### How To Order

Type & Material	Pipe Size	Opening in inches
<b>BT150SS</b>	<b>0200</b>	<b>.031P</b>
Basket Strainer, 2" NPT, 316 Stainless Steel with ½" Perf. Basket		



BT Strainers feature quick release cover

# Low Cost Protection for High Cost Equipment!

## HART INDUSTRIAL "Y" STRAINERS

are a cost effective method of protecting downstream fluid handling components from occasional stray solid particles.

HART Y strainers include a blow-down plug, which can be replaced with a ball valve so that periodic clean-out of hard particulate can be done quickly and easily without tools.

HART Y strainers are available in a wide range of pipe sizes, materials and screen openings to suit the specific requirements of your application.

HART Y strainers have a generous screen area and properly proportioned straining chamber to minimize pressure drop and increase the interval between clean-outs.



YT-Bronze



YT-Stainless Steel



YT-Cast Iron



YF-Bronze



YF-Cast Iron



YF-Stainless Steel

## Sizes, Materials and Pressure Ratings

Type	Pipe Size	Material	Psi @ 100°F	Gasket
<b>NPT Threaded &amp; *Socket Weld Y Strainers</b>				
YT250	¼" to 3"	Cast Iron	400 psig	Non Asbestos
YT125B	¾" to 3"	Bronze B62	200 psig	Teflon
YT250B	½" to 2"	Bronze B62	400 psig	Silicon
YT150CS*	2½" & 3"	Carbon Steel	285 psig	Teflon
YT300CS*	½" to 3"	Carbon Steel	740 psig	Teflon
YT600CS*	½" to 2"	Carbon Steel	1480 psig	Teflon
YT1500CS*	½" to 1"	Carbon Steel	3705 psig	304SS
YT150SS*	2½" & 3"	Stainless Steel	275 psig	Teflon
YT300SS*	½" to 3"	Stainless Steel	720 psig	Teflon
YT600SS*	½" to 2"	Stainless Steel	1440 psig	Teflon
YT1500SS*	½" to 1"	Stainless Steel	3600 psig	304SS
<b>Flanged Y Strainers</b>				
YF125	2" to 12"	Cast Iron	200 psig	Graphite
YF125	14" to 16"	Cast Iron	150 psig	Graphite
YF250D	2" to 12"	Ductile Iron	500 psig	Graphite
YF150B	2" to 8"	Bronze B62	225 psig	Non Asbestos
YF150CS	½" to 12"	Carbon Steel	285 psig	Teflon
YF300CS	½" to 12"	Carbon Steel	740psig	304SS
YF600CS	2" to 12"	Carbon Steel	1480 psig	304SS
YF150SS	½" to 12"	Stainless Steel	275 psig	Teflon
YF300SS	½" to 12"	Stainless Steel	720 psig	304SS
YF600SS	2" to 12"	Stainless Steel	1440 psig	304SS

YT600 and YT1500 are also available in Chrome Moly and Alloy 20 material

YFCS and YFSS are also available in 900# and 1500# ANSI flange ratings in 2" – 8"

150# & 300# CS & SS Strainers in 2" to 12" are also available with Butt Weld connections

Cast Iron is A126-B; Carbon Steel is A216-WCB; Stainless Steel is A351-CF8M

## Standard Screens

Strainer Type	Pipe Size	Standard Screen	Opening
All NPT & SW	¼" to 2"	20 mesh	0.032"
All NPT types	2½" & 3"	.045" Perf.	0.045"
All Flanged types	½" to 1½"	20 mesh	0.032"
All Flanged types	2" to 3"	.045" Perf.	0.045"
All Flanged types	4" and larger	⅛" Perf.	0.125"

## How To Order

Type & Material	Pipe Size	Opening in inches
YT300SS	0200	.032
Y Strainer, 2" NPT, 300# 316 Stainless Steel with 20 mesh screen		

# When You Cannot Shut Down the Line to Clean the Strainer

## HART INDUSTRIAL DUPLEX BALL-PLEX® STRAINERS

allow you to clean or change-out the dirty basket without stopping the process and with no leakage into the opened basket chamber.

HART Duplex strainers provide a bubble tight seal to the "off-line" basket chamber, and so can be used on pump suction side, and with fuel oils etc.

HART Duplex strainers include O ring seals on the basket seat to insure against particulate by-pass caused by poor basket to body seal in conventional duplex strainers.

HART Duplex strainers are designed with a 3-way type ball valve requiring very low torque to turn from one basket chamber to the other. This allows the use of a remote actuator so that switching to a clean basket can be automated with the addition of a Delta P switch.



DF-Cutaway



DF-With Basket

### Standard Screens

Strainer Type	Pipe Size	Standard Screen	Opening
DT & DF	¾" to 2"	20 mesh	0.032"
DT & DF	2½" & 3"	.045" Perf.	0.045"
DF	4" to 6"	½" Perf.	0.125"

### How To Order

Type & Material	Pipe Size	Opening in inches
<b>DT150DS</b>	<b>0300</b>	<b>.045P</b>
Duplex Strainer, 3" NPT, Carbon Steel with Stainless Steel Balls and .045" Perf. baskets		

### Sizes, Materials and Pressure Ratings

Type	Pipe Size	Body Material	Ball Material	Psi @ 100°F
<b>NPT Threaded Strainers</b>				
DT125AD	¾" to 3"	Cast Iron A126-B	Plated Steel	200 psig
DT150DD	¾" to 3"	Carbon Steel	Plated Steel	285 psig
DT150DS	¾" to 3"	Carbon Steel	Stainless Steel	285 psig
DT150SS	¾" to 3"	Stainless Steel	Stainless Steel	285 psig
<b>Flanged Strainers</b>				
DF125AD	1" to 6"	Cast Iron A126-B	Plated Steel	200 psig
DF150DS	1" to 6"	Carbon Steel	Stainless Steel	285 psig
DF300DS	1" to 6"	Carbon Steel	Stainless Steel	740 psig
DF150SS	1" to 6"	Stainless Steel	Stainless Steel	285 psig
DF300SS	1" to 6"	Stainless Steel	Stainless Steel	740 psig

® Ball-Plex is a registered trademark of Mueller Steam Corporation

# Replacement Baskets

## DESIGN FEATURES:

We can supply baskets for all makes of Y, basket and duplex strainers. The range of materials and size of units is unlimited. Using the following materials we can provide screens and baskets suitable for a wide range of applications.

- Perforated Plate
- Mesh or Mesh/Perf. combination
- Wedge Wire
- Electron Beam Small Hole Perforated Plate

## Screen/Basket Quotation Request

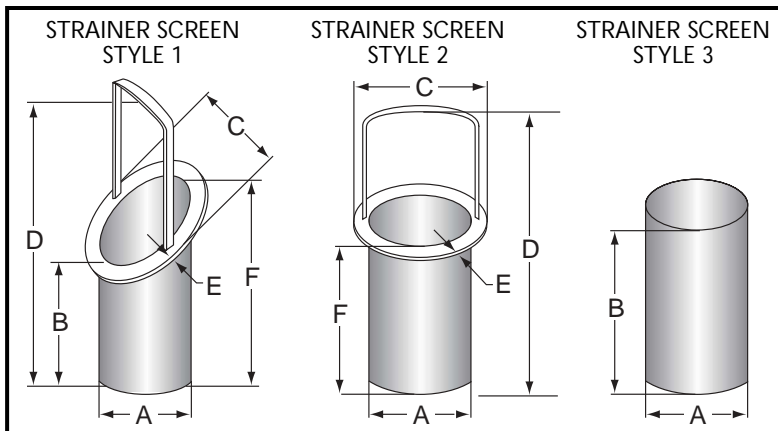
SEND US A REQUEST FOR QUOTATION – Simply add **your requirements** to the space provided in the tables on the right and fax a copy to the John Brooks office nearest you (see back page for locations and fax numbers).

# Performance Requirements

Description	Your Requirements
Required Level of Filtration	
Material of Construction	
Maximum Line Pressure	
Flow Direction inside to outside or outside to inside	
Other	

# Dimensional Requirements

Description		Your Requirements
Screen Style	(1, 2 or 3)	
Outer Diameter	A	
Height	B	
Ring OD	C	
Overall Height	D	
Ring Thickness	E	
Long Height	F	



- NOTES: 1. Screen openings other than those shown below are readily available. We can supply mesh sizes as fine as 5 micron and perforated plate as coarse as 1/2" dia.  
 2. Screens are available in a wide range of materials including carbon steel, stainless steel (304, 316), Alloy 20, Monel 400, Hastelloy® and Titanium grade 2.  
 3. Custom manufactured screens are available. See request form above.

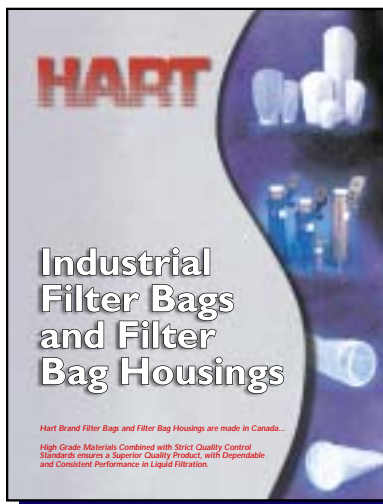
1/4" Dia. – 40% O.A.	3/16" Dia. – 50% O.A.	5/32" Dia. – 58% O.A.	1/8" Dia. – 40% O.A.	3/32" Dia. – 39% O.A.	1/16" Dia. – 37% O.A.	3/64" Dia. – 36% O.A.	1/4" Dia. – 40% O.A.	0.027" Dia. – 23% O.A.	20 Mesh – 49% O.A. 0.035" Openings	30 Mesh – 45% O.A. 0.022" Openings	40 Mesh – 41% O.A. 0.016" Openings	60 Mesh – 38% O.A. 0.010" Openings	80 Mesh – 36% O.A. 0.008" Openings	100 Mesh – 30% O.A. 0.006" Openings

# One Source for all Your Process Liquid Filtration Needs, Including:

**STRAINERS** • "Y" Type • "T" Type • Basket • Duplex • Custom Fabricated • Automatic Backwashing • Temporary Cone  
• High Pressure • Sanitary Fitted • Centrifugal Separators, etc.

**FILTERS** • Cartridge • Multi and Single Bag • Clean-In-Place Permanent Media • Automatic or Manual Backwashing  
• High Temperature • High Efficiency and Dirt Loading • High Viscosity, etc.

## 4 ADDITIONAL ENGINEERED FILTRATION PRODUCT BROCHURES AVAILABLE FROM JOHN BROOKS COMPANY LIMITED



### HART Industrial Filter Bags and Housings

Bag filters provide fine filtration of high volumes of liquids. Filter bags and filter bag housings come in a variety of sizes and materials to meet specific requirements. They can also be skid mounted with suitable pumps for portable or permanent installation.



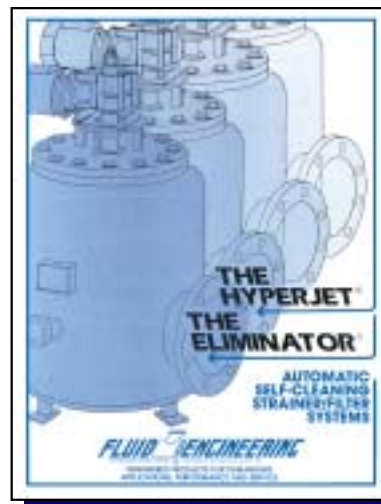
### HART Liquid Filter Cartridges and Housings

HART Filter cartridges are available in retention rates from 1 micron to 200 microns and in materials to meet most applications. Many standard size cartridge housings are available in steel or stainless steel. Custom designs and special materials are also available as required.



### HART Custom Fabricated Strainers

When standard catalogue strainers will not do the job, we will build a strainer to suit your specific application. Some features include special materials, position of inlet and outlet connections, oversized basket for longer change-out intervals, etc. Many ideas included in this brochure.



### Automatic Strainers and Filters

Eliminator® motorized automatic self-cleaning strainers provide continuous removal of unwanted solids from pipelines from 1" to 48" size. Backwash is automatic, determined by a timer or a Delta P switch. This makes Eliminator® strainers ideal for remote, unattended service.

Distributed by:



Fluid Handling Solutions™  
**SPRAYING PUMPING FILTERING**  
All from one

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