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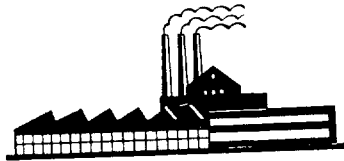
CATALOG 45



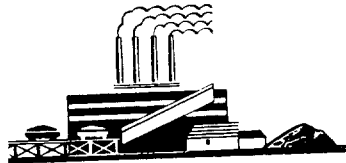
FLUID HANDLING

SYSTEMS

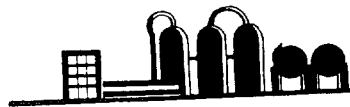
FOR



INDUSTRIAL



POWER PLANT



PROCESS INDUSTRIES

FORM 45-54

INSTALLATIONS

J. A. ZURN MFG. CO., Industrial Division, ERIE, PA., U. S. A.



FLUID HANDLING EQUIPMENT

● Zurn engineers are engaged in the continual development of Fluid Handling Equipment to meet the ever-changing requirements of Industrial, Power Plant and Process Industries for adequate protection of all units and lines in either intermittent or continuous operation. A Zurn engineer's approach is always a thorough analysis of the need to be met. Write the Zurn Research and Development Department when you need a new device for a specific purpose or standard equipment for special installations.

Because of the broad background of design and production

experience, and the flexibility of Zurn resources, you will find this organization qualified to manufacture the fluid handling equipment contained in this catalog in metals and alloys (cast bronzes, cut or formed stainless steels, carbon steels, cast semi-steel, monel metal, cast iron; coated, plated or lined adaptations of these metals) to meet specific requirements. To provide for corrosion resistance and special flow characteristics, strainer basket material and perforations are usually furnished to specifications as required for each installation. All products included in the Zurn line of Fluid Handling Equipment conform to A.S.M.E. requirements for metal used in pressure vessel parts, and are thoroughly tested.

PIPE LINE STRAINERS

Zurn Pipe Line Strainers are the most effective means of preventing equipment damage caused by precipitates, crystalline aggregates, dirt (sediment), scale, flings, or other particle impurities often found in pipe lines conveying fluids. Many shut-downs resulting in costly repair bills can be eliminated by their use.

Zurn Pipe Line Strainers protect pipe lines leading to all types of pumps, traps, regulators, aspirators, injectors, control equipment and valves. Zurn Strainers include pipe line strain-

ers; angle type pipe line strainers for high or low pressure; vertical chamber type duplex pipe line strainers; and for low pressure, the duplex pipe line strainer, horizontal tube type; pressure and suction pipe line strainers with removable basket. All pipe line strainer baskets available magnetic type for the removal of ferrous alloy particles from line. They are adaptable for use on gasoline, oil, water, steam, acid or other fluid conveying pipe lines including systems handling slurries or sludges.



DUPLEX DISC TYPE STRAINER

VERTICAL CHAMBER CONSTRUCTION; FOR HIGH OR LOW PRESSURE PIPE LINE SERVICE—F-158B5

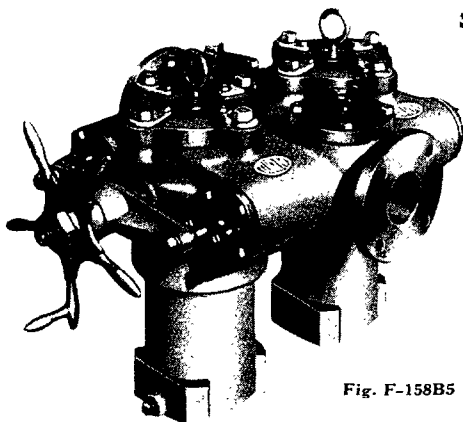


Fig. F-158B5

● This strainer serves a most important function where continuous operation of a line is required.

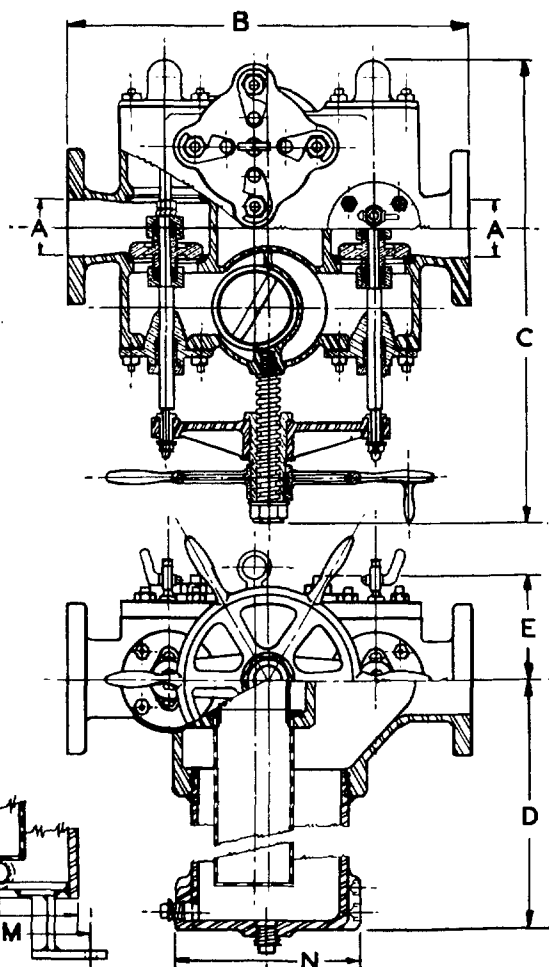
It is an integral two valve unit, both valves operated simultaneously by a large marine type hand wheel. This insures ease of operation and effects uninterrupted and unrestricted flow at all positions of the wheel. All flow passages throughout the strainer, from inlet to outlet, are exceptionally large and contoured to permit free flow of fluid with minimum pressure drop.

The strainer basket is set eccentrically, with respect to the basket chamber, so that the flow section is proportional to the flow needs at all points, thus minimizing pressure drop. (The usual practice of setting the strainer basket concentrically, with respect to the basket chamber, creates a condition of unproportional flow sections with respect to flow needs, thereby increasing fluid friction loss). Regular 6:1 ratio or as specified by increased "D" dimension.

Valve seats are removable and valve stems are supported at both ends for accurate, permanent alignment. Covers are removable for lifting out the perforated strainer baskets. Large handhole above each valve assembly for servicing valves without removing strainer from line. There are no loose parts on cover.

The Zurn Duplex Pipe Line Strainer is a sturdy, efficiently designed mechanism that will safeguard pumps and equipment from fouling caused by sediment accumulations in the pipe lines. These units are thoroughly tested hydrostatically before leaving the factory.

Available in cast bronze, steel, semi-steel and cast iron. Strainer baskets can be perforated brass, monel or other specified metal. Mesh or magnetic types furnished to specifications.



DIMENSIONS

A	B	C Min.	C Max.	D	E	F I.P.S.	M	N
2"	18 3/8"	24 3/4"	27 1/4"	10"	5"	5"	7"	—
2 1/2"	18 3/8"	24 3/4"	27 1/4"	12 5/8"	5"	5"	—	—
3"	20 5/8"	27 7/16"	32 9/16"	17 1/4"	5 5/8"	6"	8"	7 7/8"
4"	26"	31 1/8"	35 3/4"	23 3/8"	5 5/8"	8"	9 1/4"	9 7/8"
5"	28 5/8"	36 3/8"	42 1/16"	24 3/4"	6 3/8"	10"	10"	—
6"	36 3/8"	40 1/4"	47"	28 1/4"	7 5/8"	12"	15 1/8"	—



DUPLEX PLUG TYPE NON-FREEZING STRAINER

FOR HIGH OR LOW PRESSURE PIPE LINE SERVICE

F-158B3 AND F-158B4

● This strainer operates by means of a single plug whose orifices direct flow from the inlet to either basket, or both baskets simultaneously. The flow can be diverted from one basket to the other for cleaning without interrupting passage through the strainer. The seating of the plug into the body is regulated by the relieving yoke which acts to seat the plug tightly for sealing, or to loosen it for turning, as required. This strainer is suitable for working pressures up to 150 lbs. Flanged or screwed connections furnished as required. Bolted covers on strainers over the 3" size; a quick releasing basket chamber yoke assembly is standard on sizes 3" and under. Furnished in brass, bronze, cast iron, semi-steel, steel or special alloys as required for specific services. Sizes: 1", 1½", 2", 2½", 3", 3½", 4", 5", 6".

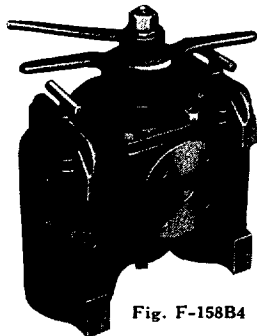


Fig. F-158B4
1½" Size with Yoke
Assembly Strainer Cover

DIMENSIONS

A	B	C	D	E	F	K
1"	6¼"	6½"	14"	3¾"	4¾"	8½"
1½"	6¼"	6½"	14"	3¾"	4¾"	8½"
1½"	6¼"	6½"	14"	3¾"	4¾"	8½"
3½"	13¼"	14¾"	27½"	6¾"	10¼"	17"
4"	13¼"	14¾"	27½"	6¾"	10¼"	17"
6"	18"	21½"	36½"	11"	15"	26"

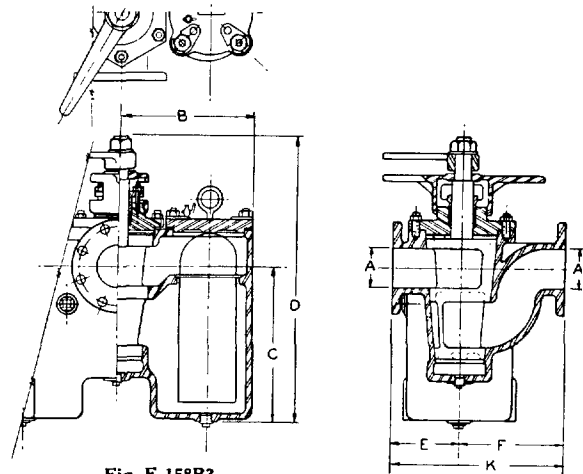


Fig. F-158B3
6" Size with Bolted Strainer Cover



DUPLEX HORIZONTAL TUBE TYPE PIPE LINE STRAINER

FOR SUCTION SERVICE

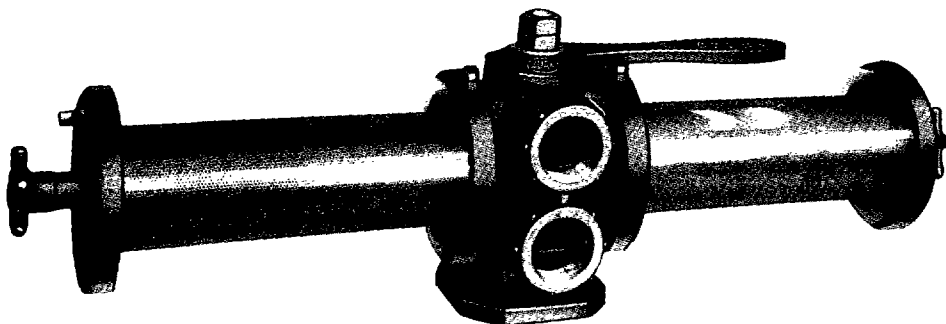


Fig. F-157A1-3

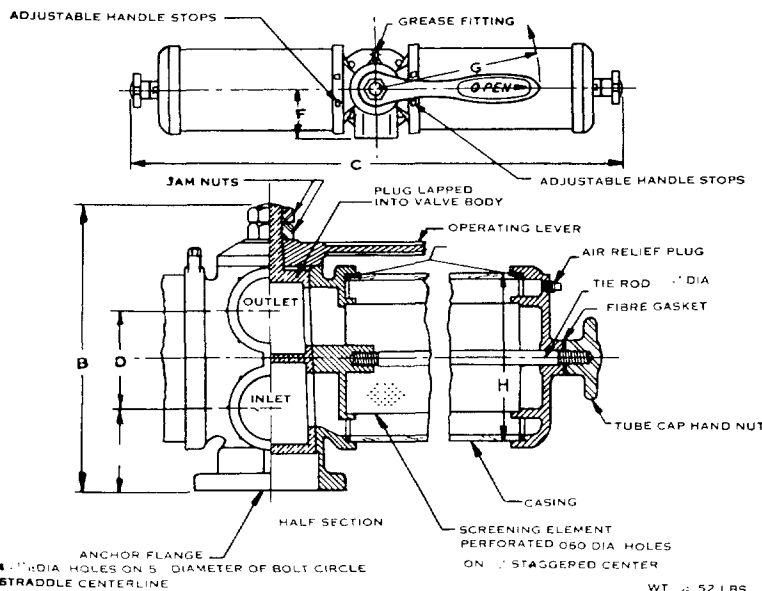
FIG. F-157A1-3— Tested for
Maximum Working Pressures
Up to 25 Lbs. Per Sq. Inch

● A highly efficient unit where constant flow features are essential. The chambers are controlled by an unrestricted diverting or transfer valve. Either chamber can be cleaned while the pipe line maintains its normal flow.

Large open area capacities afford free movement of fluids throughout this unit; 16 to 1 ratio with 12" tubes and 8 to 1 ratio with 8" tubes.

Flat horizontal design makes this strainer particularly adaptable to low close-quarter installations. Transparent Lucite tubes give the engineer or operator a visual check as to the condition of the strainers at all times.

Strainers are furnished with bronze bodies, handle, caps, tie rod and nuts; strainer baskets are brass, monel or other metal as specified; tubes are transparent Lucite or steel casings as specified.



DIMENSIONS

A Size	B	C	D
1"	10¼"	23¼" or 35½"	3½"
1½"	10¼"	23¼" or 35½"	3½"
2"	10¼"	23¼" or 35½"	3½"
E	F	G	H
3"	3¾"	10½"	6"
3"	3¾"	10½"	6"
3"	3¾"	10½"	6"



Angle Type PIPE LINE STRAINER • HIGH PRESSURE

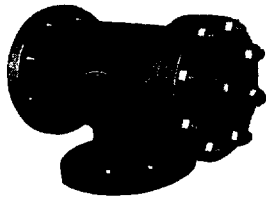


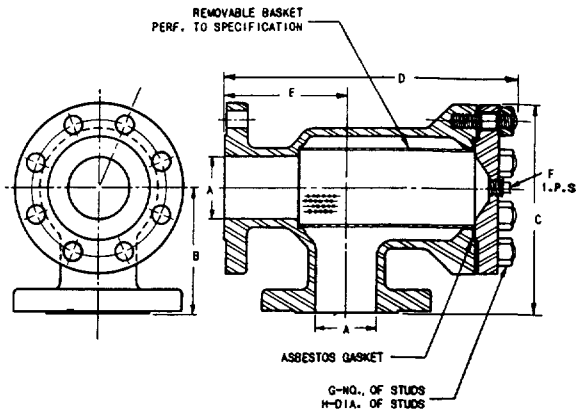
Fig. F-170A1

FIG. F-170A1—WITH FLANGE CONNECTIONS.

● For any high pressure line, and particularly for vapor, steam, or gas services. Angle construction provides added advantage of allowing strainer to be installed directly upon the unit that it is to protect—a highly efficient piping system practice today. This unit may be used in sets of two with diverting valves to permit continuous flow during cleaning periods. Available with cast steel body and cover assembly. Open area ratio of basket $4\frac{1}{2}$:1.

DIMENSIONS

A Diameter	B	C	D Length	E	F	G	H
3"	6"	9"	14 $\frac{1}{8}$ "	6"	1 $\frac{1}{2}$ "	8"	3 $\frac{1}{4}$ "
4"	7"	10 $\frac{1}{8}$ "	17"	7"	1 $\frac{1}{2}$ "	8"	3 $\frac{1}{4}$ "



90° OR 180° STRAIGHT THROUGH PRESSURE AND SUCTION PIPE LINE STRAINER

WITH DROP-BOLTED OR YOKE COVER FOR HIGH OR LOW PRESSURES

● FIG. F-500D1—Cover is removable for lifting out the perforated strainer basket; cleanout plug furnished to permit blow-down cleaning where applicable. Made in cast bronze, steel, semi-steel or iron, or alloyed metals for corrosion resistance. Right or left hand regularly available. Also mesh or magnetic baskets.

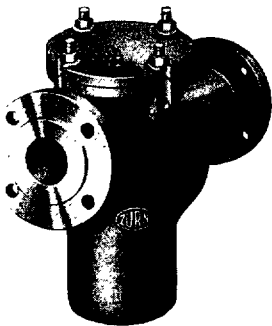


Fig. F-500D1

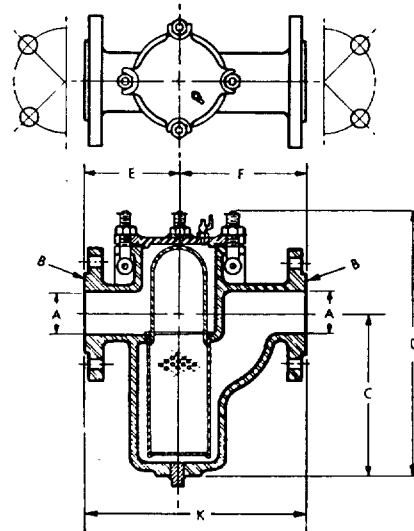
*ORDINARILY RECOMMENDED PERFORATION SPECIFICATIONS

* Service	Diameter of Holes	Number Holes Per Sq. In.
Raw Water	.375	8 $\frac{1}{2}$
Filtered Water	.125	33
Heavy Oil	.125	33
Light Oil	.0625	98
Steam, Gasoline, Air	.045	169

*Proper perforations cannot be recommended without complete installation details.

DIMENSIONS

A	B	C	D	E	F	K
1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7 $\frac{3}{8}$ "	12"	4 $\frac{1}{4}$ "	5 $\frac{3}{4}$ "	10"
2"	2"	7 $\frac{3}{8}$ "	12 $\frac{1}{2}$ "	4 $\frac{1}{4}$ "	5 $\frac{3}{4}$ "	10"
2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	9 $\frac{1}{4}$ "	14"	5 $\frac{3}{8}$ "	7 $\frac{3}{8}$ "	13 $\frac{1}{4}$ "
3"	3"	9 $\frac{3}{8}$ "	15 $\frac{3}{8}$ "	5 $\frac{9}{16}$ "	7 $\frac{9}{16}$ "	13 $\frac{1}{4}$ "
3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	11 $\frac{1}{4}$ "	16 $\frac{1}{4}$ "	6"	8 $\frac{1}{4}$ "	14 $\frac{1}{4}$ "
4"	4"	12"	17 $\frac{1}{4}$ "	7 $\frac{1}{8}$ "	10 $\frac{7}{8}$ "	18"
5"	5"	15 $\frac{1}{4}$ "	21 $\frac{3}{8}$ "	7 $\frac{3}{8}$ "	12"	19 $\frac{1}{2}$ "
6"	6"	15 $\frac{3}{4}$ "	22 $\frac{3}{8}$ "	7 $\frac{1}{2}$ "	12"	19 $\frac{1}{2}$ "
8"	8"	16 $\frac{3}{8}$ "	25"	11"	17"	28"



90° OR 180° OFFSET PRESSURE AND SUCTION PIPE LINE STRAINER

WITH DROP-BOLTED OR YOKE COVER FOR HIGH OR LOW PRESSURES

● FIG. F-500B2—Right angle body connections; cover is removable for lifting out the removable perforated strainer basket; cleanout plug furnished to permit steam blow-down cleaning where applicable. Made in cast bronze, steel, semi-steel or iron, or alloyed metals for corrosion resistance. Right or left hand regularly available. Mesh or magnetic baskets.

For Recommended Perforation Specifications, refer to table above.

DIMENSIONS

A Size	B—Standard A.S.A. Flange	C	D	E	F	G	H
1 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "	4 $\frac{9}{16}$ "	5 $\frac{1}{16}$ "	3 $\frac{3}{16}$ "	3 $\frac{3}{16}$ "	2 $\frac{1}{16}$ "	1 $\frac{7}{8}$ "
1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	5 $\frac{1}{16}$ "	7 $\frac{5}{8}$ "	3 $\frac{3}{4}$ "	3 $\frac{1}{4}$ "	2 $\frac{3}{16}$ "	2 $\frac{7}{8}$ "
2"	2"	5 $\frac{1}{16}$ "	7 $\frac{5}{8}$ "	3 $\frac{3}{4}$ "	3 $\frac{1}{4}$ "	2 $\frac{3}{16}$ "	2 $\frac{7}{8}$ "
2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	5 $\frac{1}{16}$ "	7 $\frac{5}{8}$ "	3 $\frac{3}{4}$ "	3 $\frac{1}{4}$ "	2 $\frac{3}{16}$ "	2 $\frac{7}{8}$ "
3"	3"	7 $\frac{3}{16}$ "	9 $\frac{7}{8}$ "	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	4"	3 $\frac{3}{8}$ "
3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	10"	15 $\frac{1}{16}$ "	5"	5"	5 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "
4"	4"	12 $\frac{1}{4}$ "	19 $\frac{1}{4}$ "	8"	8"	6"	6 $\frac{1}{4}$ "
5"	5"	15"	21 $\frac{3}{8}$ "	7 $\frac{3}{4}$ "	7 $\frac{1}{4}$ "	9"	6"
6"	6"	15 $\frac{1}{2}$ "	22 $\frac{3}{4}$ "	7 $\frac{3}{4}$ "	7 $\frac{1}{4}$ "	9 $\frac{1}{2}$ "	6"

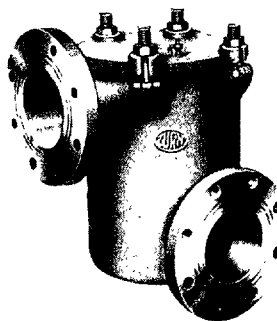
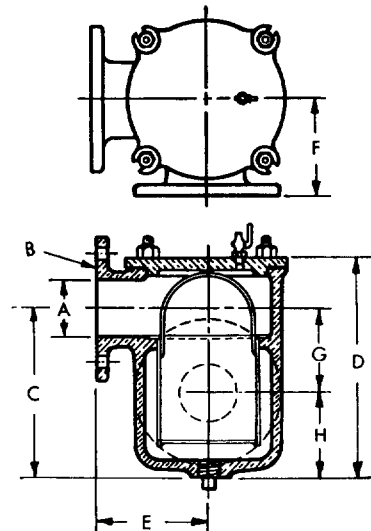


Fig. F-500B2





REMOTE VALVE CONTROL BOXES AND ASSEMBLIES

Zurn Remote Valve Control Boxes provide a modern method of operating inaccessible or hard-to-get-at valves.

Valves located below floor level, close to the ceiling or walls and partitions, inside tanks or processing vessels, or in the midst of complicated piping and equipment, can easily be operated and controlled by the use of a Zurn Remote Valve Control Assembly, such as is illustrated on this page. This assembly includes a Remote Valve Control Box, and all essential parts for hooking up the control mechanism with the valve that is to be operated, including cast iron rod coupling to fit on hand wheel of valve when specified. These Remote Valve Control Assemblies can be installed to operate with rod or pipe connected by universal joints or with flexible cable as illustrated, for transmitting torque to the handle of the valve unit that is to be opened and closed. The hazards of chain operated valves can be avoided by using these assemblies.

Zurn Remote Valve Control Boxes are particularly adaptable for Industrial, Power Plant, and Processing Industries installations where large numbers and many different types of valves are in constant use.

FIG. F-101A2—SINGLE TYPE HEAVY DUTY REMOTE VALVE CONTROL BOX WITH FLANGE

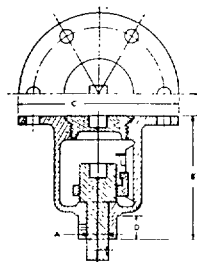


Fig. F-101A2

For attaching to masonry construction, metal or wood partition. Cast body, ground joint seat, cover, operating spindle with "open-shut" indicator. Made in cast bronze, steel, semi-steel or iron. Stem extension and bottom hub can be processed as required for various couplings.

DIMENSIONS

A-Size	B	C	D
3/4"	4 7/8"	6 7/8"	1 3/16"
3/4"	4 7/8"	6 7/8"	1 3/16"
1"	4 7/8"	6 7/8"	1 3/16"

FIG. F-101A2-7—EMERGENCY TYPE GLASS COVERED REMOTE VALVE CONTROL BOX WITH FLANGE For attaching to masonry construction, metal or wood partition. Cast body, operating spindle with "open-shut" indicator. Made in cast bronze, steel, semi-steel or iron.

DIMENSIONS

A-Size	B	C	D	E
3/4"	5 7/16"	7 1/4"	9 1/16"	1 1/2"
7/8"	5 7/16"	7 1/4"	9 1/16"	1 1/2"
1"	5 7/16"	7 1/4"	9 1/16"	1 1/2"

Fig. F-101A2-7

TRIPLE TYPE REMOTE VALVE CONTROL BOX

FIG. F-105A2, TRIPLE TYPE, REMOTE VALVE CONTROL BOX WITH FLANGE

For attaching to masonry construction, metal or wood partition. Triple type cast integral body and cover with precision machined gasket seat, removable label plate, lock latch, packing gland, and operating spindle and "open-shut" indicator. Made in cast bronze, steel, semi-steel or iron.

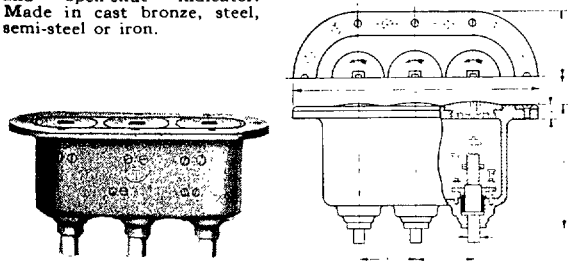
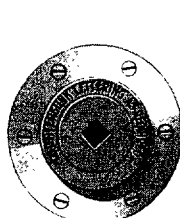


Fig. F-105A2

DIMENSIONS

A-Size	B	C	D	E	F	G
7/8"	7 1/16"	15 1/4"	7"	4 1/8"	6 7/8"	12 1/4"



Covers for Zurn Remote Valve Control Boxes can be engraved to identify type of valve operated from each box

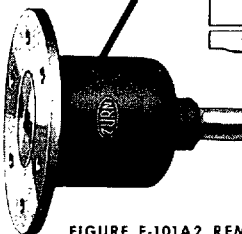


FIGURE F-101A2 REMOTE VALVE CONTROL BOX

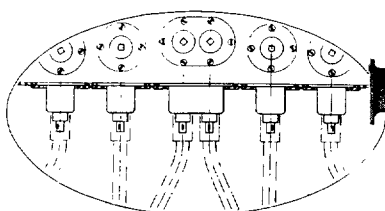


DIAGRAM A

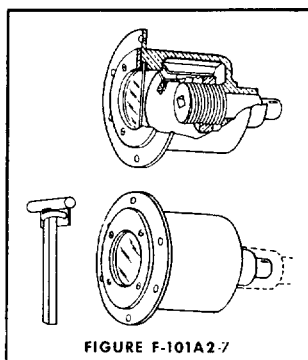
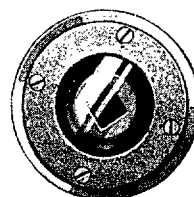


FIGURE F-101A2-7

DIAGRAM B



GLASS COVER FOR REMOTE VALVE CONTROL BOX

FIGURE F-101A2-21 CABLE CLIP

FIGURE F-101A2-22 TERMINAL BRACKET

Diagram shows detail of masonry wall installation of Zurn Remote Valve Control Assembly for operating remote valves. This assembly is made with flexible shaft, although rod or pipe connected with universal joints may be used. Various Zurn assembly units for such an installation are illustrated and identified by figure number on this diagram.

Diagram A: Illustrates battery of Zurn Remote Valve Control Boxes of single and double type bodies providing operating mechanism for all types of valves at convenient point.

Diagram B: Zurn Remote Valve Control Box with glass cover for special purpose installations.



FIGURE F-101A2-16 SLEEVE BUSHING



FIGURE F-101A2-19 ROD COUPLING FOR VALVE WHEEL



"Y" TYPE PIPE LINE STRAINER

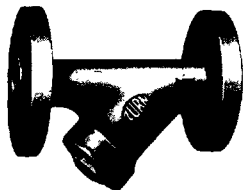


Fig. F-160A2

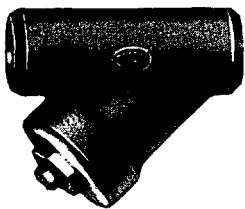
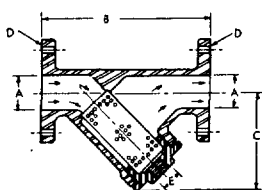


Fig. F-160A1-1

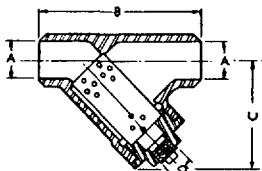


FIG. F-160A2—"Y" STRAINER WITH FLANGED CONNECTION

Cast body; removable perforated strainer sleeve fitted into machined recesses in body and blow-off bushing; threaded blow-off connection furnished, if specified, at additional cost; available in cast bronze, steel, semi-steel or cast iron.

FIG. F-160A1-1—"Y" STRAINER WITH BUTT-WELD CONNECTION

Cast steel body; removable perforated strainer sleeve; threaded blow-off connection furnished, if specified, at additional cost. Made in cast steel only.

Threaded and solder joint types available.

Recommended perforations for basket strainers upon request. Minimum open area ratio $2\frac{1}{2}:1$.

DIMENSIONS

A Dia.	B Lgth. F-160A2	B Lgth. F-160A1-1	C F-160A2	C F-160A1-1	I.P.S.	A.S.A. Flange
$\frac{1}{4}$ "	$5\frac{1}{2}$ "	$4\frac{3}{4}$ "	$3\frac{3}{8}$ "	$3\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "
$\frac{3}{8}$ "	$5\frac{3}{4}$ "	$4\frac{3}{4}$ "	3"	$3\frac{1}{8}$ "	$\frac{3}{8}$ "	$\frac{3}{4}$ "
$\frac{1}{2}$ "	$6\frac{3}{4}$ "	$4\frac{3}{4}$ "	$3\frac{3}{4}$ "	$3\frac{1}{2}$ "	$\frac{3}{8}$ "	1"
$\frac{3}{4}$ "	$7\frac{1}{2}$ "	$7\frac{3}{8}$ "	$3\frac{7}{8}$ "	$3\frac{13}{16}$ "	$\frac{1}{2}$ "	$1\frac{1}{4}$ "
1"	9"	$7\frac{3}{8}$ "	$4\frac{1}{8}$ "	$4\frac{1}{8}$ "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "
$1\frac{1}{4}$ "	$10\frac{3}{4}$ "	$8\frac{1}{4}$ "	$5\frac{5}{8}$ "	$5\frac{5}{8}$ "	1"	2"
$1\frac{1}{2}$ "	$9\frac{3}{4}$ "	$8\frac{1}{4}$ "	$5\frac{5}{8}$ "	$5\frac{5}{8}$ "	$1\frac{1}{4}$ "	$2\frac{1}{2}$ "
$2\frac{1}{2}$ "	$11\frac{1}{2}$ "	$8\frac{3}{4}$ "	$6\frac{3}{4}$ "	$6\frac{3}{4}$ "	$1\frac{1}{4}$ "	3"

DISCHARGE CHECK VALVE

● Zurn Discharge Check Valves serve an important function in discharge lines, carrying steam, sludge, waste water and many other waste liquids in gravity flow installations.

Zurn Discharge Check Valves serve as a protection against contamination of liquids, fouling of pumps and equipment, reduce maintenance costs, and prevent production difficulties in industrial plants, wherever back surge is a problem.

Zurn Discharge Check Valves can be furnished in cast bronze, steel, semi-steel, cast iron and alloyed metals for corrosion resistance.

Many other types available. 105° with or less manual control.

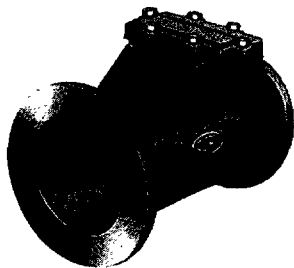
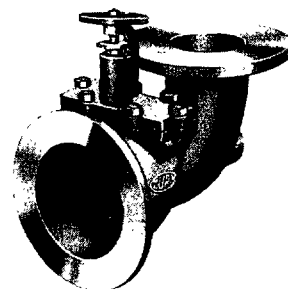


Fig. F-49B1

FIG. F-49B1—180° DISCHARGE CHECK VALVE: Straight type less manual control; also available with manual control; removable swing check flap and cover. Available also with I.P.S. outlet. Outlet same size as inlet.

Fig. F-44C3

FIG. F-44C3—90° DISCHARGE CHECK VALVE: Angle type with vertical auxiliary manual control; removable swing check flap and cover; removable valve seat; cleanout plug. (Also furnished less control.) Available also with I.P.S. or soil pipe and spigot outlet. Outlet larger than inlet.



LINT INTERCEPTOR

● **FIG. Z-901**—This interceptor is especially adaptable to the requirements of the textile industry and laundries and industrial plants where lint and wiping waste is likely to get into drainage lines and clog them. It should be used in connection with pumps and in water works and swimming pool installations, and in water and oil service mains. The interception function is accomplished by a perforated metal strainer equipped with an open or closed bottom, brass or copper basket of suitable mesh. Strainers are furnished plain or galvanized. The intercepting basket is removable, singularly easy to inspect and to clean; however with the open bottom basket, all dirt and sediment can be brought out through the bottom blow-off connection. It cannot become air bound, as the openings through the high points in the basket are on a line with the top of the pipe. This interceptor is built for operation with working pressures up to 150 pounds. Cast iron body and bolted cover dura-coated. Available with flanged and I.P.S. connections; sizes: 2, 3, 4, 5, and 6 inches.

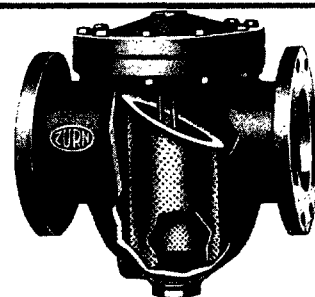


Fig. Z-901

VOLATILE LIQUIDS INTERCEPTING DRAIN

● The Zurn Volatile Liquids Intercepting Drain was specially designed for installations where volatile fluids, having a lower specific gravity than water, i.e., gasoline, oil, naphtha, etc. are discharged into the drain. It is a safeguard against the costly hazards of explosion and fire.

The Zurn Volatile Liquids Intercepting Drain is recommended for installation in automotive plants, railroad roundhouses, dry cleaning establishments, heat treating plants, garages, service stations and other locations wherever inflammable and explosive liquids are used or dispensed.

The large central retaining chamber provides low downward velocity of fluids passing through drain. Fluids are evenly distributed over entire area by dispersing action of safety seal arrangement. Thus a high efficiency of interception and a large retaining capacity are attained.

The extreme length of the Annular Level Maintaining Weirs provides a constant basic liquid level in the drain. This level rises in the central section of the drain as lighter than water liquids accumulate. When these liquids have reached the retaining capacity of the drain, the level has reached the circular skirt of the Automatic Signal Control. This causes a secondary liquid seal and an air lock at the Safety Seal which very noticeably retards the inflow of liquids giving positive indication that drain should be cleaned.

The drain is very easily cleaned by removing the grate, safety seal and signal control assembly, and baffle casting. The container casting is then lifted out and the volatile liquids poured off; then the water and sludge is removed.



Fig. Z-697

Capacities ratings and performance data available. Write us for information on your specific problem.



CAST IRON INTERCEPTORS

FOR WAX, GREASE, FATS, AND OTHER LOW DENSITY INSOLUBLES

A positive means of avoiding clogged drains and contamination of sewage outlets.—Figs. Z-1170, Z-1171.

● The primary purpose of a Grease Interceptor is to assure free flowing drainage through pipe lines at all times—by intercepting, separating, accumulating and recovering grease from waste water lines.

The ZURN GREASEPTOR METHOD, employing the principle of flotation, is the simplest and most positive means of accomplishing this purpose.

The first essential in the operation of this principle is the elimination of turbulence of incoming waste water, allowing the grease to separate from, and rise to the surface of, the water.

Proper construction and specially designed flow control features of the Zurn Grease Interceptor effect maximum separation.

Efficient grease interception is necessary:

1. Reduces plumbing-drainage maintenance costs by keeping lines free of damaging grease.
2. Salvaged waste grease and fats can be sold to rendering plants.
3. Waste grease is vitally needed now as a basic ingredient of war explosives, glycerine, soap and medicines.
4. Guarantees maximum capacity operation of sewage disposal plants, thus protecting life and health of community.

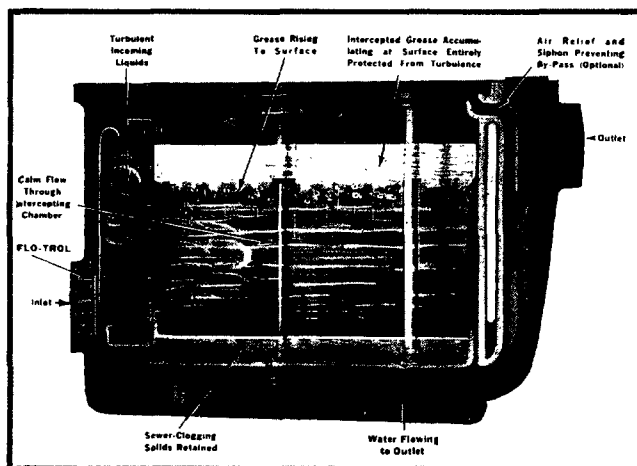
THERE ARE TWO FACTORS THAT SHOULD DETERMINE THE SIZE AND TYPE OF GREASE INTERCEPTOR SELECTED:

1. The quantity of waste water normally contained in the fixture served by the interceptor, and the period of elapsed time necessary to empty the fixture—**RATED FLOW CAPACITY**.
2. The expected volume of grease in waste water discharged by the fixture over a period of time, and the practical time interval of cleaning the interceptor—**RATED GREASE CAPACITY**.

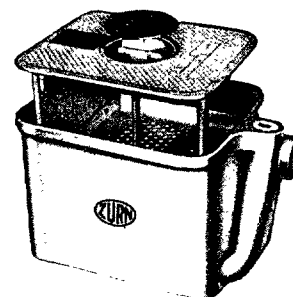
Caution should be exercised in the choice of an interceptor since its efficiency is retarded in proportion to excessive flow through the chamber. Guard against undersizing!

THE ZURN GREASDICATOR

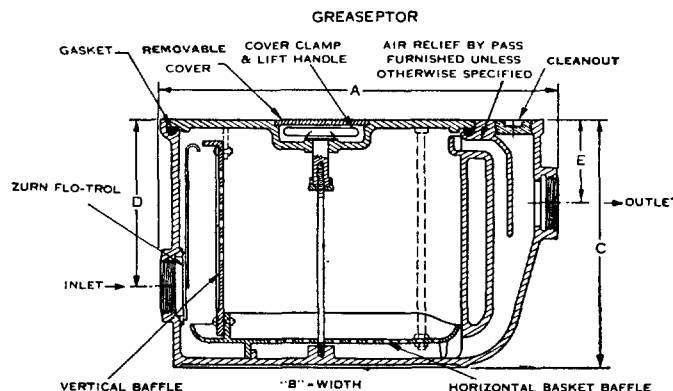
The GREASDICATOR is an easily operated slide-rule employing the above factors in sizing and selecting the proper Greaseptor for a specific installation. Proven mathematical formulae have been used to compile the data and information it contains. As a result, selections and sizes are guaranteed to intercept the required volume of grease.



Cross-section showing operation of flotation principle



Z-1171



Dimensional Diagram of Zurn Interceptor Z-1170 and Z-1171

DIMENSIONS, AND CAPACITIES FOR ZURN GREASEPTORS Z-1170 (STANDARD) AND Z-1171 *(DE LUXE) MODELS

Size	G.P.M. Rated Cap.	Lbs. Fat Cap.	Over-all Lgth.	Over-all Ht.	Over-all Wth.	Ctr. of Inlet to Base	Ctr. of Outlet to Base	Inlet I.P. Size	Out. I.P. Size
*100	4	8	17 1/4"	10"	9 3/4"	3 3/4"	7 1/4"	1 1/2"	2"
*200	6	12	18 3/4"	11 1/4"	12 1/8"	3 5/8"	8 1/8"	1 1/2"	2"
*300	9	18	21 3/4"	11 3/4"	14 1/4"	3 3/4"	8 3/4"	1 1/2"	2"
*400	14	28	23 1/2"	13 1/4"	17"	3 3/4"	10 1/4"	1 1/2"	2"
*500	20	40	27 1/4"	14 3/4"	17 1/2"	4 1/2"	10 3/4"	1 1/2"	2"
600	25	50	30 1/2"	16 3/4"	20 1/4"	4 3/8"	12 1/8"	1 1/2"	2"
700	40	80	32 1/2"	18 1/2"	23"	4 1/4"	14 1/8"	2"	3"
**600L.T.25	50	50	31 3/8"	12 3/4"	22"	4 1/4"	7"	1 1/2"	2"

**Low type for special installations

SOLIDS INTERCEPTOR

INTERCEPTS PARTICLES OF PLASTER, PLASTICS, METAL CHIPS, GLASS, AND OTHER SOLIDS WHICH CAUSE DRAIN CLOGGING—FIGURE Z-1180

● The Zurn Solids Interceptor is a compact, efficient device that performs an intercepting service beyond anything obtainable with old style traps or improvised devices. It is sanitary, easy to inspect and to keep clean. With a single motion the cover may be removed, providing access to the sediment container which is readily lifted out for cleaning.

The Zurn Solids Interceptor is engineered and built to perform a specific protective function where solids frequently clog drain lines. The intercepting function is accomplished by two perforated metal strainers which intercept the solids in the waste water as it passes through the interceptor body.

In addition, they serve as baffles to quiet the turbulence of the water, permitting the solids to drop more readily to the bottom of the sediment container where they are accumulated for removal. The inlet being located approximately 4 inches from the bottom of the interceptor directs the water upwards near the top on the opposite side, thereby leaving the collected solids undisturbed. Because of water seal in this interceptor, it also serves as a trap as required by plumbing codes.

Zurn Solids Interceptors are available in two sizes.

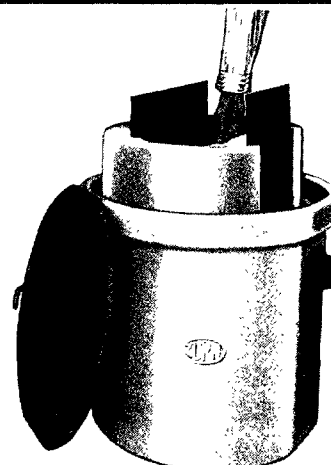
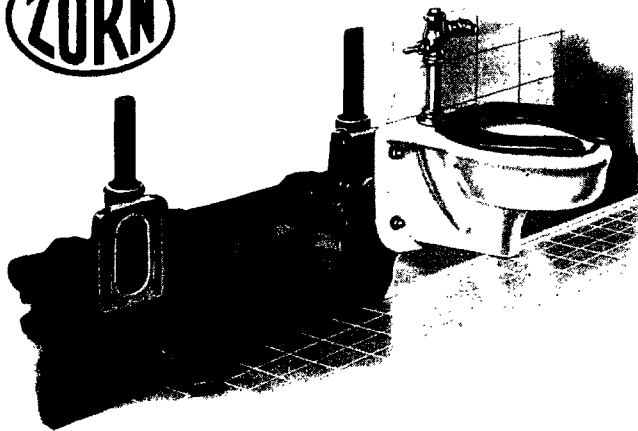


Fig. Z-1180—Solids Interceptor Size No. 2



ZURN-BENNETT WALL CLOSET CARRIERS

● These carriers provide adjustments usually required in the installation of wall closets in industrial, commercial, public, school, and institutional buildings. The sanitary advantages and other conveniences of wall closets may be fully realized when supported by Zurn-Bennett Wall Closet Carriers. They facilitate installation, requiring less time to make adjustments and assure proper alignment of all closets. Write direct for illustrated catalog. Zurn is the only manufacturer specializing in Carriers for supporting all types and makes of wall fixtures, including sinks of all types, lavatories, and wash basins. This line includes many basic types of Zurn Engineered Carriers, described and illustrated in Catalog No. 39.



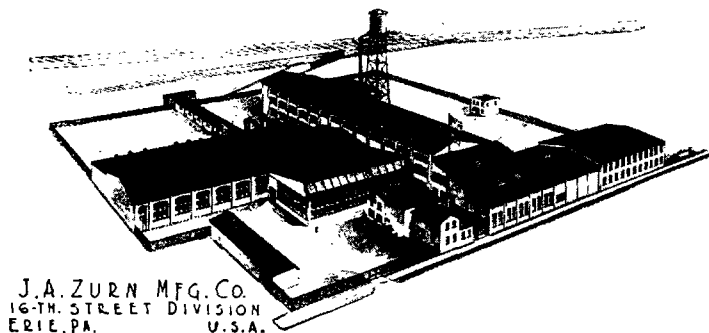
ZURN BUILDING, PLUMBING, DRAINAGE PRODUCTS

● Roof Drains, Floor Drains, Backwater Sewer Valves, Shower Drains, Clean-outs, Continuous Waste Extension Fittings, Traps of all types are included in the complete line of Zurn Building-Plumbing-Drainage Products which covers every requirement of a modern plumbing drainage system, except the pipe.
● Zurn Engineers have been constantly improving existing types of drains and developing new ones over a period of years to provide "Engineered Protection for Human Health in Modern Structures." Write for Zurn Catalogs, specifying the particular type of products in which you are interested.

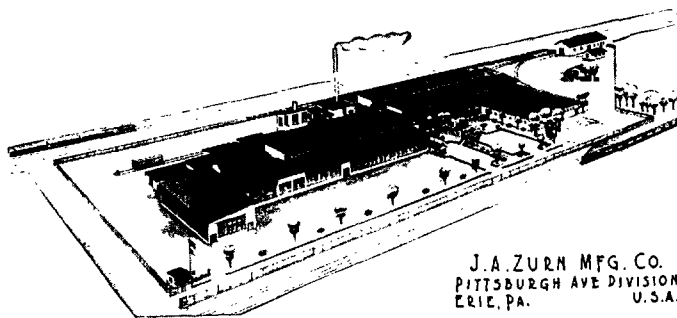


ZURN FROST-PROOF HYDRANTS AND STREET WASHERS

● This line includes compression valve, dry pipe hydrants, in three different styles and compression valve, dry pipe street washers. These products are thoroughly protected both at the top and the bottom so that they are not affected by frost in the coldest weather. They provide full water flow and are easily repaired. Write for catalog on Zurn Frost-Proof Hydrants and Street Washers.



J.A. ZURN MFG. CO.
16TH STREET DIVISION
ERIE, PA. U.S.A.



J.A. ZURN MFG. CO.
PITTSBURGH AVE DIVISION
ERIE, PA. U.S.A.

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