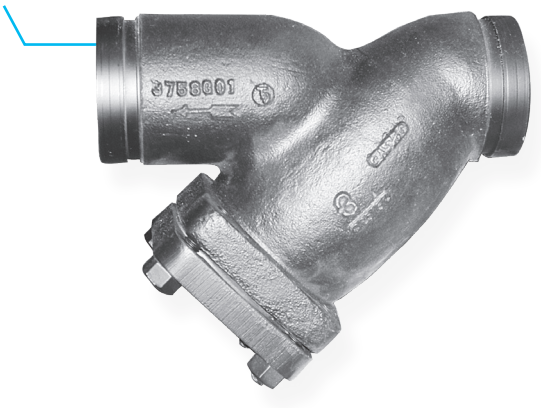
Grooved-End "Wye" Strainer
Model 758G



Material Specifications

Body & Cover
Ductile Iron ASTM A 395
Grade 60-40-18

Flat Gaskets
Non-asbestos

Screen

2" - 4" Type 304 Stainless Steel 1/16" (1.6mm) dia. holes (12 mesh)

5" - 12" Type 304 Stainless Steel 1/8" (3.2mm) dia. holes (6 mesh)

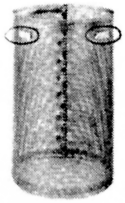
Special order screen option:
2" - 8" - 16 mesh / 10" - 12" - 12 mesh

Coupling
Ductile iron ASTM A 536
Grade 65-45-12

Service Recommendations
For use in water, oil and gas piping to provide economical protection for pumps, meters, valves, compressors, traps and similar equipment.

Screens
Standard screens for Y-Strainer are perforated 304 Stainless Steel with spot welded seam. Mesh lining is available in all alloys for extra fine st aining. Recommended standard perforations are listed below in the Material Specifications.

Gruvlok Strainer Basket
Furnished as standard in sizes 8" (*43 mm*) and larger. A one-quarter turn securely locks the screen in its seat and frees the serviceman for securing the cover flange to the body of the strainer.



Contact an ASC Engineered Solutions Representative for other applications.

Construction
All covers have an NPT blowoff outlet at location "C". A recessed seat in the cover ensures accurate screen alignment. Bosses at the inlet and outlet flanges are provided for gauge taps.

Self-cleaning is done by opening the valve or plug connected to the blowoff outlet. (When ordering, advise when strainers are to be mounted in vertical piping, the cover can be rotated to position the blowoff at the lowest point.)

Blowoff Outlets
Tapped NPT size specified in the dimension table.
Blowoff outlets are not normally furnished with plugs.

Individually Hydrostatically Tested

Working Pressures Non-Shock
640 PSI @ 150°F (45 Bar @ 65°C)

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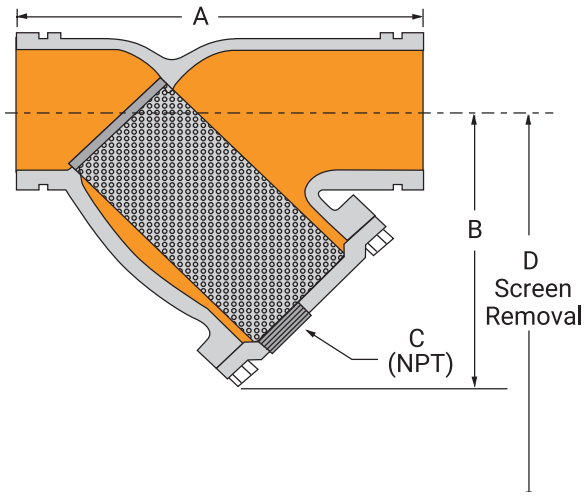


Fig. 758 G Grooved-End "Wye" Strainer

Nominal Size	O.D.	Dimensions A	B	C Plug Size	D	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	Lbs./Kg	Lbs./Kg
2 50	2.375 60.3	7⅞ 200	5¼ 133	½ 25	7 178	12.0 5.4
2½ 65	2.875 73.0	10 254	6½ 165	1 25	9¾ 248	18.0 8.2
3 80	3.500 88.9	10⅛ 257	7 178	1 25	10 254	23.0 10.4
4 100	4.500 114.3	12⅛ 308	8¼ 210	1½ 38	12 305	42.0 19.1
5 125	5.563 141.3	15⅝ 396	11¼ 286	2 51	17 432	80.0 36.3
6 150	6.625 168.3	18½ 470	13½ 343	2 51	20 508	112.0 50.8
8 200	8.625 219.1	21⅝ 549	15½ 394	2 51	22¾ 577	205.0 93.0
10 250	10.750 273.1	25¾ 654	18½ 470	2 51	28 711	277.0 125.6
12 300	12.750 323.9	30 762	21¾ 552	2 51	30 762	470.0 213.2

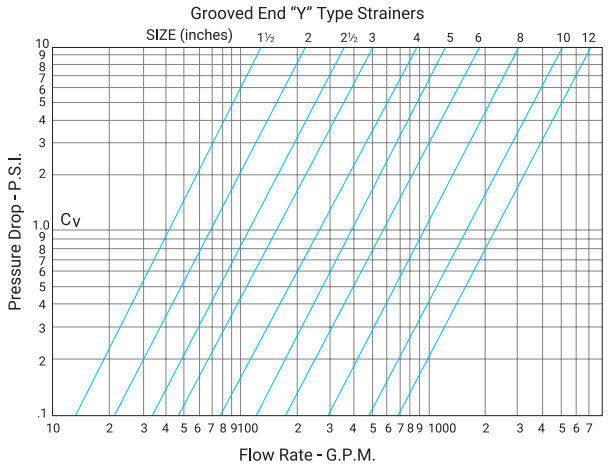
*Maximum working pressure is based upon the performance capability of the Gruvlok Strainer. Maximum system working pressure is dependant upon the couplings used for installation and the pressure capacity of other system components.

Not for use with copper systems.

Flow Data

NOTE 1 Most U.S. piping engineers specify system startup instructions for new systems which include removing the pre-filter screen after system flushing of the main piping before the system is put into normal operation. Flow data values are based on flow of clean water at ambient temperatures. The pressure drop across the diffuser basket strainer, 50% clogged, is approximately twice as great as that of a clean strainer.

NOTE 2 Suction Diffuser baskets need a routine maintenance program to maintain system efficiency.



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Grooved-end "Wye" Strainer
Model 768G

Values for flow of water at +60°F (+16°C)

$$C_V = \frac{Q}{\sqrt{\Delta P}}$$

Where:
Q = Flow (GPM)
C_V = flow coefficient
ΔP = Pressure drop (PSI)

Grooved-end Wye-Strainers are designed to strain debris and foreign matter from piping systems and thus provide inexpensive protection for costly pumps, meters and other components. The Strainer can be installed quickly and easily with two mechanical couplings and the straight flow through design provides for lower pressure drop. This strainer features a stainless steel screen that is secured with an end cap and mechanical coupling. Cleaning and maintenance of the screen can be accomplished easily by removing the coupling. The Strainer is suitable for vertical and horizontal installations.

Material Specifications

Body
Ductile iron ASTM A 536 Grade 65-45-12

End Cap
Ductile iron ASTM A 536 Grade 65-45-12

Screen
2" - 3" Type 304 Stainless Steel to ASTM A 240 1/16" (1.6 mm) perforations (12 mesh)
4" - 12" Type 304 Stainless Steel to ASTM A 240 1/8" (3.2 mm) perforations (6 mesh)

Coupling
Ductile iron ASTM A 536 Grade 65-45-12

Gasket
EPDM Temperature range -40°F - +230°F (-40° to 110°C) - Standard
Nitrile Temperature range -20°F to 180°F (-29° to 82°C) - Special Request

Blow Down Port
2"- 5": 1" tapped with plug,
6" - 12": 1½" tapped with plug
Strainer baskets need a routine maintenance program to maintain efficiency and to prevent excess pressure drop caused by a clogged screen.

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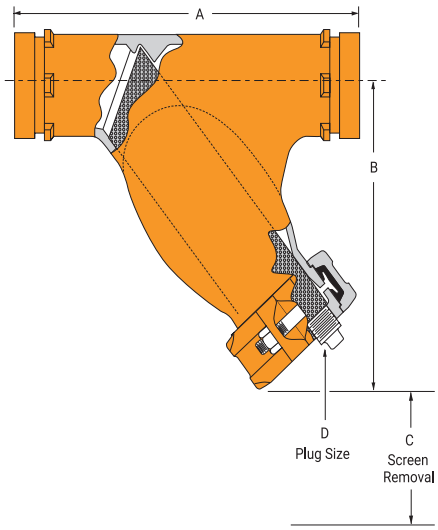
Grooved-end "Wye" Strainer
Model 768G



Nominal Size	O.D.	Working Pressure	Dimensions A	B	C	D Plug Size	Cv Values	Approx. Wt. Ea.
In./DN(mm)	In./mm	PSI/bar	In./mm	In./mm	In./mm	In./mm		Lbs./Kg
2 50	2.375 60.3	300 20.7	9 3/4 248	6 3/4 171	4 7/8 124	1 25	59	11 5.0
2 1/2 65	2.875 73.0	300 20.7	10 3/4 273	7 3/8 187	5 1/4 133	1 25	92	14 6.4
3 80	3.500 88.9	300 20.7	11 3/4 298	8 3/16 208	5 7/8 149	1 25	162	20 9.1
4 100	4.500 114.3	300 20.7	14 1/4 362	10 254	7 1/2 191	1 25	284	32 14.5
5 125	5.563 141.3	300 20.7	16 1/2 419	11 1/4 286	8 1/4 210	1 25	410	46 20.9
6 150	6.625 168.3	300 20.7	18 1/2 470	13 3/8 340	9 7/8 251	1 1/2 38	770	70 31.8
8 200	8.625 219.1	300 20.7	24 610	16 3/4 425	12 5/16 313	1 1/2 38	1010	155 70.3
10 250	10.750 273.1	300 20.7	27 686	19 483	13 11/16 348	1 1/2 38	1800	230 104.3
12 300	12.750 323.9	300 20.7	30 762	22 15/16 583	16 11/16 424	1 1/2 38	2800	335 152.0

Not for use in copper systems.

- Pressure ratings listed are CWP (cold water pressure) or maximum working pressure within the service temperature range of the gasket used in the coupling. This rating may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ.
- Maximum working pressure and end loads listed are total of internal and external pressures and loads based on Sch. 40 steel pipe with roll grooves to ANSI C606-97 specifi ations.
- For one time field test only the maximum joint working pressure may be increased 1½ times the figu es shown.
- **WARNING:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.

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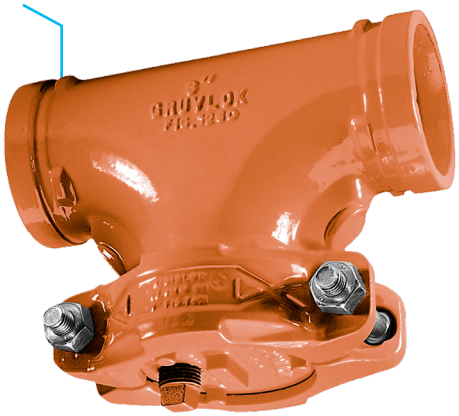
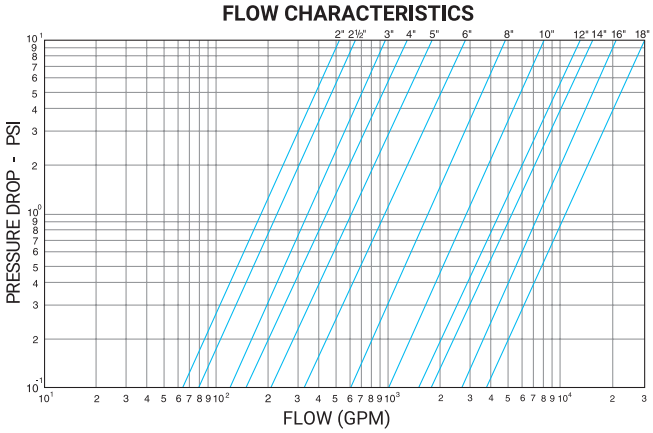
Tee Strainer
Fig. 7260



The Fig. 7260 Tee Strainer provides an economical, compact and hydraulically efficient m ans of protecting valuable piping system components. The in-line, twin-fold strainer basket provides more than 100% of the projected pipe area for open flow through the strainer screen, which results in excellent flow performance across the strainer.

Gruvlok Strainers are designed and tested to ensure long term, reliable service in working pressures up to 750 psi (51.7 bar), depending on size and the pressure rating of the connecting coupling.



Note: Most U.S. piping engineers specify system startup instructions for new systems which include removing and cleaning the strainer screen after system flushing of main piping before the system is put into normal operation. After flushing, replace the strainer screen. Flow data values are based on flow of clean water at ambient temperatures. The pressure drop across a strainer, 50% clogged, is approximately twice as great as that of a clean strainer. Strainer baskets need a routine maintenance program to maintain efficiency and to prevent excess pressure drop caused by a clogged screen.

Material Specifications

Body
2" - 12" Ductile iron conforming to ASTM A 536, Grade 65-45-12

14" - 18" Carbon steel pipe conforming to ASTM A 53

Strainer Basket
Stainless steel type 304 bar and woven wire screen. 12 mesh in sizes 2" - 3" and 6 mesh in sizes 4" - 18".

Access Coupling & End Cap
2" - 12" Ductile iron conforming to ASTM A 536, Grade 65-45-12

14" - 18" Low carbon steel conforming to ASTM A 53

Bolts
SAE J429, Grade 5, Zinc Electroplated

Heavy Hex Nuts
ASTM A563, Grade A, Zinc Electroplated

Coupling Gaskets
Elastomer properties as designated by ASTM D 2000

Grade "E" EPDM -40°F to +230°F (service temp. range)

Grade "EP" EPDM -40°F to +250°F (service temp. range)

Other options available upon request.

Drain Plug
Carbon steel square head plug conforming to ASME B16.11

Tap Sizes
2"-4" – ½ NPT, 5"-8" – ¾ NPT, 10"-18" – 1 NPT

Coating
2" - 12" - Rust-inhibiting paint — color: orange (standard)

Hot Dip Galvanized conforming to ASTM A 153 (optional)

Other Colors Available (IE: RAL3000 and RAL9000)

For other Coating requirements contact an ASC Engineered Solutions Representative.

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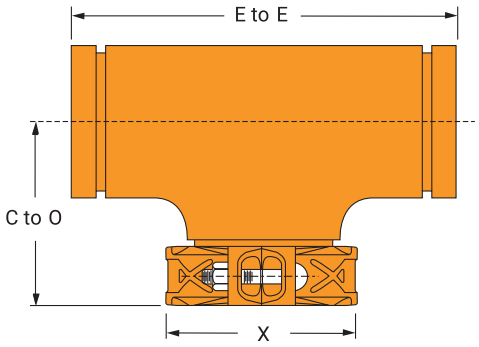
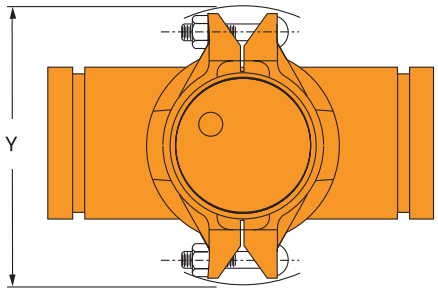
Tee Strainer
Fig. 7260





Note: The above illustration shows the required orientation of the Rigidlok access coupling for assembly with a grooved-end flange.

Nominal Size	O.D.	Maximum* Working Pressure	E to E	C to O	X	Y	Basket Removal	Approx. Wt. Ea.
In./DN(mm)	In./mm	PSI/bar	In./mm	In./mm	In./mm	In./mm	Clearance	Lbs./Kg
2 50	2.375 60.3	750 51.7	6½ 165	4¼ 108	3½ 89	5⅞ 149	4⅜ 111	6.0 2.7
2½ 65	2.875 73.0	750 51.7	7½ 191	4¾ 121	4 102	6½ 165	5⅛ 130	8.0 3.6
3 80	3.500 88.9	750 51.7	8½ 216	5¼ 133	4¾ 121	7 178	6 152	13.0 5.9
4 100	4.500 114.3	750 51.7	10 254	6⅛ 156	5⅞ 149	8⅜ 213	7¼ 184	19.0 8.6
5 125	5.563 141.3	750 51.7	11 279	6⅝ 168	7 178	10⅛ 257	8¼ 210	30.0 13.6
6 150	6.625 168.3	750 51.7	13 330	7⅝ 194	8⅛ 206	11⅛ 283	9¾ 248	45.0 20.4
8 200	8.625 219.1	600 41.4	15½ 394	9⅛ 232	10½ 267	14⅛ 359	12 305	79.0 35.8
10 250	10.750 273.1	500 34.5	18 457	10⅜ 264	12⅞ 327	17⅛ 435	14¼ 362	133 60.3
12 300	12.750 323.9	400 27.6	20 508	11⅜ 289	15 381	19⅛ 486	16¼ 413	187 84.8
14 350	14.000 355.6	300 20.7	22 559	12¾ 324	16⅛ 410	20½ 521	17¼ 438	272 123.4
16 400	16.000 406.4	300 20.7	24 610	12 305	18⅛ 460	22¼ 565	20 508	350 158.8
18 450	18.000 457.2	300 20.7	31 787	15½ 394	20½ 521	24⅜ 619	24½ 622	400 181.4

* Maximum working pressure is based upon the performance capability of the Gruvlok Strainer. Maximum system working pressure is dependent upon the couplings used for installation and the pressure capability of other system components.

14" – 18" Fabricated

Not for use with copper systems.

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