



Eaton Filtration Solutions



aton's Filtration business is a global leader in manufacturing filtration products that include automatic self-cleaning and fabricated pipeline strainers, mechanically cleaned filters and strainers, bag and cartridge filtration systems, and gas/liquid separators for industrial customers worldwide. Headquartered in Iselin, New Jersey, Eaton has engineering, along with research and development centers in Portage, Michigan; Sint Niklaas, Belgium; Nettersheim, Germany; and Jining, China. Sales and service centers are located in 11 countries.

Eaton supplies high-quality systems, parts, and services to markets that include automotive, food and beverage, ethanol and biofuels, oil and gas, pharmaceutical, power generation, pulp and paper, chemical, paints and coatings, electronics, iron and steel manufacturing, and municipal and industrial water. Eaton is well positioned in key markets and is expanding its global footprint with initiatives in the Americas, EMEA, and Asia Pacific.

Eaton's Filtration business has led the way with technology that meets the growing and rigorous demands of vital industrial sectors. Utilizing a variety of filtration technologies, Eaton has consistently implemented the best solutions available while continually striving to make a difference for customers and the environment.

Eaton Filtration Services

- State-of-the-art water testing lab facility
- Long-term or short-term equipment rental
- Field service-inspections, start-up, maintenance, repair, and replacement
- Field trials
- Extensive network of manufacturer representatives and distributors throughout North America
- Worldwide technical support in international markets
- Team of product specialists dedicated to providing application engineering

Eaton Technologies

- Customized and modular solutions provide a full range of retention capabilities and construction materials in manual and automated designs
- ISO 9001:2015 quality management
- Standard ASME "U", "UM" Code, and CRN Stamp
- "N" stamp available
- European standards DIN/CE/PED
- EPA compliant solutions
- Properly sized components to meet any specified flow rate and retention requirement
- NSF approved coatings
- Ultra low discharge strainer technology that offers reduced purge volumes

Eaton Sustainability Commitment

Eaton is unwavering in our commitment to being sustainable by design—in the way we operate, through the design of our products, and through the energy and climate saving benefits our products deliver. Eaton issues a Sustainability Report as part of its Annual Report, available on www.eaton.com.



Eaton Strainer Applications

Industrial and municipal water

Eaton strainers remove debris from lakes, streams and wells that can damage or clog equipment. They also remove leaves, insects, feathers, etc. From cooling tower water where the system is open to the atmosphere. For desalinization equipment, they take out unwanted matter from the water before it is treated for salt removal. Spent wastewater often passes through a basket strainer to take out material that should not go into a sewer or a waterway.

Process equipment

By installing an automatic self-cleaning strainer ahead of expensive process equipment, the strainers protect against damage from scale, dirt or by-products, preventing costly shutdowns. Heat exchangers, condensers and pumps use strainers on their intake sides. Automatic self-cleaning strainers keep flow meters and spray nozzles from clogging.

Marine industry

Automatic self-cleaning strainers are vital in handling seawater, which can contain a good deal of undesirable matter. Cooling lines, fire control lines, sanitary lines and general cleaning lines use strainers. Strainers also clean fuel, hydraulic and lubrication systems.

Commercial buildings, hospitals and schools

Cooling towers and boilers use automatic self-cleaning strainers to protect them from damage due to scaling.

Power generation

The electric power industry uses strainers to clean water for cooling and to protect equipment. They also strain transformer oil to avoid clogging of the circulating lines.

More information

For specific, detailed application information, consult eaton.











Permanent Media Systems

Model 2596 Automatic Self-Cleaning Strainers

Technical Support Guide



Content and Product Overview

Model 2596 Automatic self-cleaning strainers

- · Introduction, features and benefits
- Technical information
 - How it works Backwash arm
 - Flow rate comparison
 - Control systems and elements
 - · Basic sizing guidlines and design parameters

Product Overview:

- Model 2596 2"-8" Cast iron or stainless steel
- Model 2596 10"-16" Cast ductile iron
- Model 2596 6"-36" Fabricated carbon steel and stainless steel













Model 2596 - Typical Applications

- Automatic self-cleaning strainers are used to strain fresh, brackish, or salt intake water for plant services such as cooling, process, and fire protection. The strainers allow water to be recycled within the plant, reducing costs.
- Process Industry—Protect heat exchangers, pumps, valves, and spray nozzles.
- Power Industry—Pump seal protection and cooling water.
- Pulp and Paper Industry—Remove and separate bark and chips for recycling and prevent clogging of nozzles.
- Sewage and Water Treatment Plants—Strain secondary effluent prior to discharge and provide clean plant service water.
- Primary Metal Industry—Provide clean water for quenching, descaling, and blast furnace cooling.

The Eaton Model 2596 Automatic Self-Cleaning Strainer is a motorized strainer designed for the continuous removal of entrained solids from liquid in pipeline systems. This strainer is ideal for applications that demand uninterrupted flow, a major consideration in plant operations.

Eaton Automatic Self-Cleaning Strainers are available in the following pipe sizes, 2" to 8" cast iron or stainless steel, 10" to 16" cast ductile iron, 6" to 36" and special or bigger sizes upon request, fabricated carbon steel and stainless steel. Custom designs and exotic materials are available upon request. A wide range of screen designs are offered from \(V_8^{\text{"}} \) perforation to 200 mesh.

They are used for straining cooling water from ponds, lakes or rivers, cooling towers, plant service water, boiler feed water, secondary effluent, irrigation, and municipal water intake for equipment protection.

The determining factors are the level of solids content and the ability to handle the backwash discharge flow. They are a worthwhile investment when loading is high or upset conditions occur.

These strainers also provide worryfree operation. Continuous flow is assured, even while the system is being backwashed, providing uninterrupted protection for nozzles, pumps, valves, heat exchangers, and other process equipment. Frequent cleaning and servicing of manual strainers is costly, and if not properly done, serious disruptions to the entire piping system can occur. Eaton Automatic Self-Cleaning Strainers will significantly reduce these maintenance costs. They are ideal replacements for either simplex or duplex manual strainers.



Model 2596 Automatic Self-Cleaning Strainers

Model 2596 Features/Benefits

- Quality Construction: Eaton Automatic Self-Cleaning Strainers are designed and constructed in accordance with ASME Section VIII, Division 1. ASME Code Stamp is available. Seismic qualification is also available.
- idLTM Seal: The unique Eaton idL Shaft Seal prevents troublesome leakage. This special quad seal means that the strainer always stays dry and clean in service with no process media leaking down the sides of the strainer.
- Ease of Maintenance: Unitized modular assembly—the motor, gear reducer, cover, and complete internal operating mechanism lift off as a unit, making all components easily accessible. This greatly simplifies maintenance and reduces costs.
- Low Backwash Fluid Requirements: Only a small portion of system flow is used during backwash due to the efficient hydraulic design.
- Choice of Screen Elements: DuraWedge, Perforated, or mesh elements.
- Minimal Power Consumption: ¼ HP drive motor in 2" through 16", ⅓ HP in 18" through 30", ⅓ HP in 30", 1 HP in 36" through 42", and 2 HP in 48" strainers.
- No Bypass of Contaminants: 2" to 8" element caps are epoxy sealed to screen media. O-ring seals on body cover prevent bypass around element. 10" to 36" (special and bigger sizes upon request) element caps are epoxy sealed to screen media. A machined cover and body provide metal-to-metal sealing and prevents bypass around the element. For those elements whose retention is below 300 micron (60 mesh) an elastomer seal is provided on top and bottom of the element.
- Cover Seat Design: O-ring permits resealing without time-consuming gasket replacements and adjustment.
- Manual Operation if Required: Utilizing extended shaft.

Model 2596 Application Considerations

For coarse straining applications, such as raw water intakes from lakes, ponds, and streams, the convoluted perforated elements will perform well and offer the most economical unit pricing.

On applications in which pre-screening of the fluid has been performed, but finer filtering of the fluids is desired, the sinter-bonded mesh element may be selected.

On applications in which the fluid being strained encounters fibrous materials, the DuraWedge element will minimize the impact of the fibers stapling to the screen.

Debris: Cleaning the straining element is accomplished by using the pressure differential between line pressure and atmosphere. During the cleaning cycle, when the backwash valve is opened to atmosphere, a portion of the strained fluid reverses flow back across the isolated section of element, lifts off the debris, and ejects it out of the strainer.

Sticky or greasy debris are more difficult to backwash and may require longer backwash cycle durations. Sand, dirt, and pipe scale should backwash easily. The quantity of debris coming into the strainer also can be a problem. Ensure that the volume of the suspended solids does not exceed 200 ppm or 0.02%. If the application requires heavier loading consult Eaton.

Backwash Requirements: The quantity of fluid required to clean a straining element is dependent upon the type and quantity of debris. Under normal conditions, approximately 5% of the line flow will be used for cleaning of the straining element during the cleaning cycle. To minimize the loss of fluid through the backwash, it is recommended that a manual throttling valve be added downstream of the automated valve.

Pressure and Temperature

- Cast Iron is rated at 200 psi @ 150°F.
- Ductile Iron is rated at 150 psi @ 150°F.
- Cast Stainless Steel is rated 275 psi @ 150°F.
- Fabricated units are rated at 150 psi @ 150°F. However, other ratings are available, consult Eaton.
- The minimum operating pressure is 20 psi.

Cenpeller™ Technology

A common problem in many automatic selfcleaning strainers is inefficient backwashing due to debris lodged in the strainer element.

The Model 2596 2–8" strainer features a unique vane plate positioned at the inlet of the strainer element where it contacts the process media before it enters the element. The vane causes the incoming liquid to move in a circular motion forcing

the debris to lay up against the surface of the strainer element rather than lodging in the element's openings. Lodged debris can negatively impact the differential pressure across the strainer, resulting in a shut down of the strainer and manual cleaning of the element.

Cenpeller Technology helps prevent this situation and delivers easier and more efficient backwashing.



Inlet of strainer element



TECHNICAL INFORMATION

Model 2596 Automatic Self-Cleaning Strainers

Backwash Arm

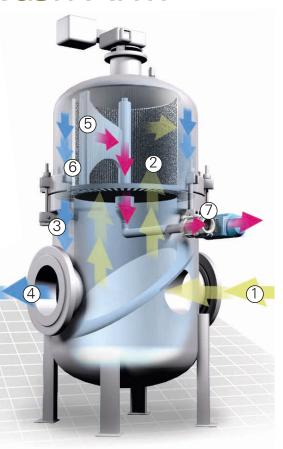
Model 2596 Strainer: How it works

The debris-laden fluid enters the strainer's bottom chamber (1) where the line velocity is reduced. Flow continues upward, passing radially through the sealed screen element, (2) which traps debris on the inside of the screen. The flow is uninterrupted and the strained fluid flows to the outer annulus (3) and exits through the outlet nozzle (4).

Backwash cleaning is accomplished by utilizing the pressure differential between line pressure and atmosphere. A high-efficiency, full flow backwash arm (5) extending the entire length of the screen element, rotates slowly inside of the screen and is piped to atmosphere. The port shoe (6) is in proximity to the screen and its opening is equivalent to the "debris collector" sections created by the convolutions and/or vertical collector bars in the element.

When cleaning is required the automatic backwash valve opens the system to atmosphere, causing a high velocity reverse flow across the isolated section of the screen. Dirt and debris are dislodged from this segment of the screen into the backwash arm and out the strainer through the backwash piping (7). During the backwashing cycle the main flow is uninterrupted and continues to be strained in the normal manner.

Designed to monitor and operate the backwash cleaning system, Eaton automatic control systems



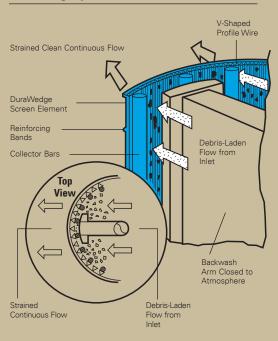


are simple to operate, reliable, and easily maintained. They are set to clean on differential pressure with a timed backup. The

design allows field adjustments to suit the demands of the service conditions, ensuring effective cleaning with a minimum use of backwash fluid. Systems are available in automatic intermittent or continuous backwashing modes.

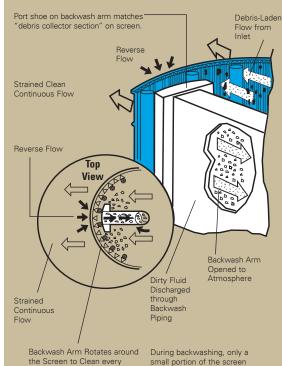


Straining cycle



Backwashing cycle

Section over Time



is cleaned at any given time. The majority of the screen continues to screen as

TECHNICAL INFORMATION Model 2596 Automatic Self-Cleaning Strainers





Model 2596 10" to 16" Cast Metal models provide flow rates up to 6500 GPM.



Model 2596 Fabricated

models are available in ten different sizes from 6" to 36" (special and bigger sizes can be fabricated upon request). Custom designs and exotic materials are also available upon request, consult Eaton.

Model 2596 Flow Rate Comparison Chart

I/O Size & Construction*	GPM flow rate**
2" cast	50-120
3" cast	100-260
4"/4L" cast	170-450
6" cast	370-1,000
8" cast	500-1,800
10" cast	900-2,800
12" cast	1,200-4,000
14" cast	1,600-5,000
16" cast	2,000-6,500
6" fabricated	370-1,000
8" fabricated	500-1,800
10" fabricated	900-2,800
12" fabricated	1,200-4,000
16" fabricated	2,000-6,500
18" fabricated	2,500-8,500
20" fabricated	2,900-10,200
24" fabricated	3,200-15,000
30" fabricated	5,000-24,000
36" fabricated	7,800-35,000

- * Special and bigger sizes upon request.
- **Pressure drop data is approximate and indicates results to be expected with clean water, under normal flows with standard straining media and in clean strainer. For DuraWedge and sinter bonded elements, consult Eaton.





Eaton Automatic Control Systems (ACS) are specifically designed to monitor and operate the backwash cleaning system of Eaton Automatic Strainers. Simple to operate, reliable, and easily maintained. The design allows field adjustments to suit the demands of the service conditions, ensuring effective cleaning with a minimum use of backwash fluid.

Standard Control System Features

ACS-1S

This system features a NEMA 4 rated (water and dust tight) panel box complete with adjustable timer, display differential pressure override, 10 amp control relay for backwash valve activation, display lights to indicate Power On, Backwash Valve Open, and High Differential Pressure. A selector switch is also included to manually control the backwash valve functions of Off-On-Auto. The panel also has contact terminals for a motor starter and an external alarm connection. The panel requires 110 VAC input, CANBOA/USA UL listed. The panel has a differential pressure switch and an electrically actuated ball valve that controls the backwash function.

ACS-2S

This system has all of the features of the ACS-1 and includes a motor starter in addition to the other standard equipment.

ACS-3S

This system has all of the features of the ASC-2 system and includes a 460V/120V step down transformer.

Optional designs to meet specific requirements with special wiring arrangements, panel boxes (NEMA 7, 9), control valves, and air actuation among others, can be furnished.

Modes of Operation

The automatic intermittent mode is adjustable by setting the timer in the panel that controls the frequency of backwashing and the "open" time of the backwash valve. Field adjustments should be made to suit the application. A differential pressure switch to initiate backwashing under high load conditions also can be adjusted.

The continuous backwashing mode is recommended where the backwashing fluid can be recycled to its source or when very high solid loadings are encountered.

In both the automatic intermittent and continuous backwashing modes the backwash arm continuously rotates at a low 2–4 RPM.



Components

Motors

An electric motor and gear box are furnished as part of the strainer. The standard TEFC motor is 120V/220V, Single phase 60 Hz, or 230V/460V Three Phase 60 Hz, at customer option. Other motors are available.

Differential Pressure Switch A diaphragm-type differential pressure switch is a standard component in all Control Systems. It compensates for sudden high pressure loading by overriding the time cycle and initiating backwashing. The differential pressure setting as well as a delay time setting can be adjusted. Two psid above the clean reading is the differential setting recommended. A delay timer will continue the cleaning to customer's requirement. The time delay can be adjusted from 0.6 seconds to 24 hours, depending on system's

Backwash Valve

needs.

Electrically actuated (115 VAC/60 Hz) ball valves are also standard in the Control Systems. Materials of construction are suitable for water service. Other materials, valve types and pneumatic actuation are optional.

Backwash Valve Sizes

Strainer Size	Valve Size
2", 3", 4"	1"
6", 8"	1½"
10", 12", 14", 16"	2"
18", 20", 24", 30"	3"
36"	6"
Special and higger size	s unon request



Model 2596 Automatic Self-Cleaning Strainers

Eaton offers a full range of element choices for Automatic Strainers. All are manufactured to the toughest industry standards and are designed for long term use in even the most demanding applications.



DuraWedge® Flement

DuraWedge is a nonclogging, rugged stainless steel straining element constructed from V-shaped profile wire. Available only from Eaton.

Features

- Two point contact straining from the "smooth" side prevents plugging or packing of debris and particles.
- Effective dislodging of dirt, debris, and fibers from the element during backwash. This is accomplished by the increased velocity of the reverse flow (during backwash) from the "open side" of the vee.
- Fiber stapling is reduced because of smooth surfaces and the design contour of the profile wire.
- Vertical collector bars form spaces to accumulate debris and dirt, preventing snow plowing of materials by the rotating backwash arm and port shoe.
- No bypass. Elements are sealed.
- Longer service life. All-welded design with circumferential reinforcing bands provides structural integrity.

DuraWedge Element Selection

Strainer Size	Standard Openings
2", 3", 4", 6", 8"	½16", ½32", 0.015"
10", 12", 14", 16"	½", ½16", ½32", 0.015", 0.009"
18", 20", 24"	³ / ₁₆ ", ¹ / ₈ ", ¹ / ₁₆ ", ¹ / ₃₂ " 0.015", 0.009"

Convoluted Element

This is a sturdy, economical stainless steel element for general service use. It is ideal in applications where leaves, twigs, and large amounts of miscellaneous debris are encountered. The generous spaces created by the convolutions provide an area for the debris to collect. "Packing" does not occur due to the gradual contoured shape of the convolutions. During backwashing the debris is easily dislodged and carried away through the backwash arm and out of the strainer.

Features

- Circumferential reinforcing bands for added resistance to pressure and flexing ensures long service life.
- · Cartridge design for easy removal and cleaning.
- Convoluted sections are individually isolated by the port shoe during backwash for increased cleaning efficiency.
- No snow plowing. Convoluted profile provides collection spaces for debris
- · Extended area design offered only by Eaton.
- No bypass.
- Sinter bonded mesh available An Eaton exclusive.

Convoluted Element Selection

nings
, 1/32"
, 1/32"
, ½ ₁₆ "
003")

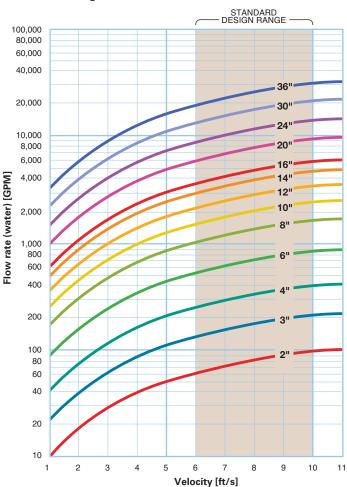


TECHNICAL INFORMATION Model 2596 Automatic Self-Cleaning Strainers

Basic Sizing Guidelines

- 1. Ensure that the pipeline flow velocity falls within the standard design range of the strainer.
- 2. Select the correct screen and opening size, do not make smaller than necessary.
- 3. The quantity, type, and nature of debris to be removed
- 4. The strainer meets the design pressure and temperature requirements of the pipeline.
- 5. Backwash line should discharge to atmosphere in close proximity to the strainer.

Strainer sizing chart*



* Special and bigger sizes upon request



Standard Design Parameters

1. Self-cleaning strainers have a design flow range where the unit will best perform its two main functions, straining and self-cleaning.

- 2. Inlet flow velocity to the strainer should be in the 6 to 10 feet per minute range. There may be applications where the operating flow will fall outside the normal design range. When this occurs, please contact Eaton for recommendations.
- 3. Minimum operating pressure is 20 psi for standard units. Consult Eaton for equipment options when the system pressure is less than 20 psi.
- 4. Suspended solids should not exceed 200 ppm or 0.02% of volume (see below). For heavier loadings consult Eaton.

Suspended solids sizing chart and conversion table

	ι η 0/	J.b. /1000 C-J	I/4 000 3
PP	M %	Lb./1000 Gal.	kg/1.000 m³
	10000	_T 1.0	_T 80
	8000	8	60
	6000	.6	1 60
	- 6000	Ţ .0	40
	4000	4	
		1	
			- 20
	2000	.2	
			10
-	1000	ļ .1	‡ 8
:	800	.08	6
	600	.06	+
	-	+	4
-	400	.04	
			Ī
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	200	.02	_
			1
-	100	01	[‡] .8
	80	.008	6
	60	.006	+
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۲			2
2	- 20	.002	
<u> </u>			
S			- 1
<u> </u>	- 10	.001	- 80.
Č.	8	.0008	.06
STANDARD DESIGN RANGE	6	.0006	+
9	-	t	04
Ā	- 4	.0004	+
S	-	+	
			02
	- 2	0002	
			04
	1.0	0004	01
V	1.0	1 .0001	¹ .0083

TECHNICAL INFORMATION Model 2596 Automatic Self-Cleaning Strainers

Volume conversion factors

To Obtain: Multiply By:	U.S. Gallon	Imperial Gallon	U.S. Pint	U.S.Pound Water	U.S. Cubic Foot	U.S. Cubic Inch	Liter	Cubic Meter
U.S. Gallon	1	0.833	8.0	8.337	0.13368	231.0	3.78533	0.003785
Imperial Gallon	1.2009	1	9.60752	10.0	0.16054	277.42	4.54596	0.004546
U.S. Pint	0.125	0.1041	1	1.042	0.01671	28.875	0.473168	0.000473
U.S. Pound Water	0.11995	0.1	0.9596	1	0.016035	27.708	0.45405	0.00454
U.S. Cubic Foot	7.48052	6.22888	59.8442	62.365	1	1728.0	28.31702	0.028317
U.S. Cubic Inch	0.004329	0.00361	0.034632	0.03609	0.0005787	1	0.016387	0.0000164
Liter	0.2641779	0.2199756	2.113423	2.202	0.0353154	61.02509	1	0.001000
Cubic Meter	264.170	219.969	2113.34	2202	35.31446	61023.38	999.972	1

To convert from one unit to another, locate the starting unit in the left column. Multiply by factor horizontally to the right under desired unit

Pressure Conversion Factor

To Obtain: Multiply By:	Pound Sq. In.	Pound Sq. Ft.	Atmosphere	Kilogram Sq. Cm.	Inch Water	Foot Water	Inch Mercury	mm Mercury	Bar
Pounds/Sq. In	1	144.0	0.068046	0.070307	27.7276	2.3106	2.0360	51.7150	0.06895
Pounds/Sq. Ft.	0.0069545	1	0.000473	0.000488	0.1926	0.01605	0.014139	0.35913	0.000479
Atmosphere	14.696	2116.22	1	1.0332	407.484	33.9570	29.921	760.0	1.01325
Kilogram/Sq. Cm.	14.2233	2048.16	0.96784	1	394.27	32.864	28.959	735.558	0.9807
Inch Water	0.03607	5.194	0.002454	0.00254	1	0.08333	0.0734	1.865	0.00249
Foot Water	0.43278	62.3205	0.029449	0.03043	12.0	1	0.8811	22.381	0.02984
Inch Mercury	0.49115	70.726	0.033421	0.03453	13.617	1.1349	1	25.40	0.03386
mm Mercury	0.019337	2.7845	0.0013158	0.0013595	0.5361	0.04468	0.03937	1	0.001333
Bar	14.5038	2088.55	0.98692	1.0197	33.51	402.1	29.53	750.0	1

To convert from one unit to another, locate the starting unit in the left column. Multiply by factor horizontally to the right under desired unit.

Strainer Basket Opening Equivalents

Mesh	Inches	Millimeters	Microns
200	0.0027	0.0686	68
150	0.0041	0.1041	104
100	0.0065	0.1651	165
80	0.007	0.1778	177
60	0.009	0.2286	228
40	0.015	0.8636	380
20	0.034	0.8636	862

Tighter retentions available, consult Eaton.

Strainer Basket Opening Equivalents

Perf	Inches	Millimeters	Microns
1/32	0.033	0.838	838
3/64	0.045	1.143	1,143
1/16	0.070	1.778	1,776
3/32	0.094	2.387	2,387
1/8	0.125	3.175	3,175
5/32	0.150	3.810	3,810
3/16	0.1875	4.762	4,762
1/4	0.250	6.350	6,350
3/8	0.375	9.525	9,525
1/2	0.500	12.700	12,700

1/32	0.033	0.838	838
3/64	0.045	1.143	1,143
1/16	0.070	1.778	1,776
3/32	0.094	2.387	2,387
1/8	0.125	3.175	3,175
5/32	0.150	3.810	3,810
3/16	0.1875	4.762	4,762
1/4	0.250	6.350	6,350
3/8	0.375	9.525	9,525
1/2	0.500	12.700	12,700

conversion factors Velocity

Flow velocity

GPM X 0.4085 in ft/s ID² in inches

Flow conversion factors

M³/hr	=	3.671 I.G.M.
I.G.P.M.	=	41.14 Barrels/Day
T.P.H.	=	3.74 I.G.M.
I.G.P.M.	=	1.2 U.S. G.P.M.
I.G.P.M.	=	4.54 Liters/Min
Liter/Min.	=	0.22 I.G.P.M.
U.S. G.P.M	=	0.833 I.G.P.M.
Barrel	=	35 Imp. Gallons
Barrel	=	42 U.S.Gallons

Viscosity Equivalents

SSU (Saybolt Seconds Universal)	Centipoise	Engler Degrees 20°C	Redwood Standard
30	1	-	_
50	5	2	44
100	20	3.5	88
200	40	16	175
300	65	30	263
400	85	43	350
500	105	57	440
600	130	72	525
700	150	90	615
800	175	115	700
900	195	132	790
1,000	210	150	880
2,000	425	350	1,750
3,000	625	540	2,600
4,000	860	740	3,500
5,000	1,050	930	4,550
6,000	1,300	1120	5,250
7,000	1,500	1,320	6,150
8,000	1,700	1,510	7,300
9,000	1,920	_	
10,000	2,150	-	-

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