



ABOUT US

TTI is a customer-focused organization that designs, manufactures and delivers technology-driven products to improve our customers' processes. Our team focuses on delivering products that impact your bottom line while respecting the environment, our neighbors and employees. Several members of the TTI team have over 30 years of experience in the filtration industry. TTI's team has delivered world-class Breather, Filtration, and Elastomeric Products products to customers around the Globe in the following industries: Energy, Food & Beverage, Hydraulics, Pharmaceutical and General Industrial.

PRESIDENT'S MESSAGE FROM TODD YOUNGGREEN

"As an industry entrepreneur, I set out to create businesses that are the best overall value in the industry. It is our mission at TTI to offer our customers exceptional product quality and performance with unfailing white glove service. As TTI's President, I will make you a promise that our products and services will live up to your expectations. If not, please contact me directly and we'll make it right. I appreciate your interest in the TTI product offering!".

TTI PowerGuard[™] Housings Brochure

A Brochure Featuring:

- TTI's Company Overview
- PowerGuard[™] Housings Datasheets



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TTI POWERGUARD[™] HOUSING TABLE OF CONTENTS

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TTI'S EXCLUSIVE PARTNERSHIPS WITH FILTRATION INDUSTRY LEADERS

Our Product Line History

TTI's PowerGuard housing line is manufactured in Germany with premium German components and assembled in the USA. TTI has leveraged the 58 years of Hydraulic manufacturing expertise of <u>FG Industrial Filtration</u> (Formerly Mahle) to deliver the PowerGuard product line to the North American marketplace. All TTI Housings are available standard with a bypass valve, visual indicator, SAE connections and produced to be highly serviceable. The TTI housing line provides the versatility for intermittent or continual flow operations, while offering a range of flow and pressure ratings compatible with inline pressurized systems and return line filtration.

CALL US TODAY FOR CUSTOM REQUESTS OR TO FIND SOLUTIONS WITH YOUR CURRENT PROCESS

TTI excels at providing custom solutions for OEM's in several different industries.

Give TTI a call at **(303) 585-0132** to discuss how you can leverage our know-how to create a custom solution for your specific application.



SERIES 100 SIMPLEX HOUSING

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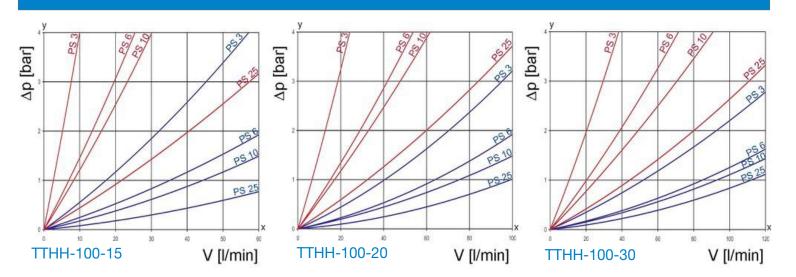
SPECIFICATIONS

- Nominal working pressure 900 PSI
- Visual indicator for element change out standard 32 PSI
- Automatic bypass valve standard 50 PSI Bypass Valve
- Operating temperature: -22°F to 248°F

FLOW CHARACTERISTICS



Simplex Aluminum PowerGuard Housing



FLUID VISCOSITY

190 mm²/s 33 mm²/s



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SERIES 100 SIMPLEX HOUSING

Top Applications

- Hydraulic systems hydraulic oil
- Gas turbines turbine oil
- Gearbox lube systems gear oil

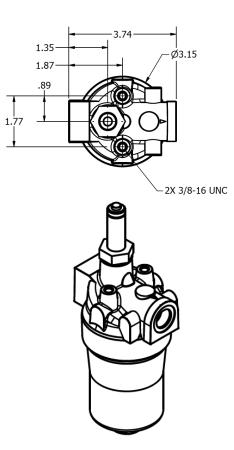
Machine Coolant

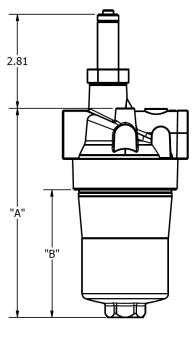
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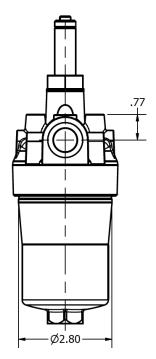
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Top Industries

- Power Generation
- Steel Mills
- Pulp & Paper
- Mining







DIMENSIONS IN INCHES PART "**A**" "B" INLET **NUMBER*** Height **Bowl Length** OUTLET TTHH-100-15-VBB 6.5 4.1 SAE-12 TTHH-100-20-VBB 8.8 6.4 SAE-12 TTHH-100-30-VBB 12.4 10 SAE-12

3 Material Ordering Options: V/E/X : Visual / Electrical / None B / X: Bypass / None B / V: Buna / Viton

For example:

TTHH-100-15-VBB: Series 100 Housing, 15gpm nominal flow rate, Visual Indicator, Bypass Valve, Buna-N Seals

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SERIES 110 SIMPLEX HOUSING

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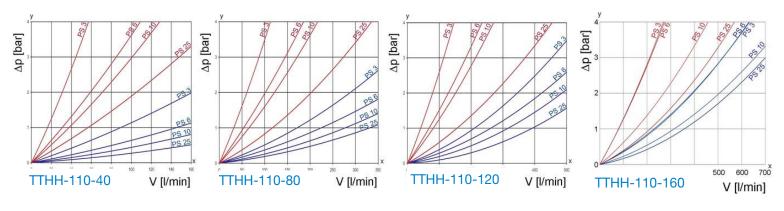
SPECIFICATIONS

- Nominal working pressure 450 PSI
- Visual indicator for element change out standard 32 PSI
- Automatic bypass valve standard 50 PSI Bypass Valve
- Operating temperature: -22°F to 248°F



Simplex Aluminum PowerGuard Housing

FLOW CHARACTERISTICS



FLUID VISCOSITY

190 mm²/s 33 mm²/s



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SERIES 110 SIMPLEX HOUSING

Top Applications

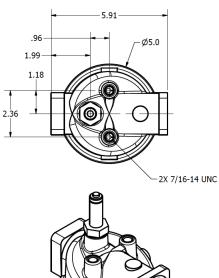
- Hydraulic systems hydraulic oil 0
- Gas turbines turbine oil
- Gearbox lube systems gear oil
- Machine Coolant

Top Industries

- Power Generation •
- Steel Mills
- Pulp & Paper
- Mining

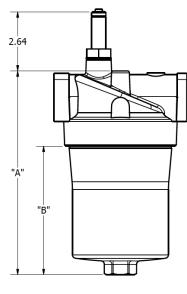
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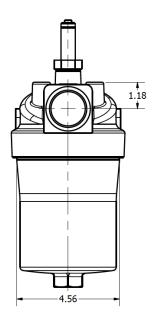
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DIMENSIONS IN INCHES

PART NUMBER*	"A" Height	"B" Bowl Length	INLET OUTLET
TTHH-110-40-VBB	9.1	5.7	SAE-20
TTHH-110-80-VBB	13.6	10.5	SAE-20
TTHH-110-120-VBB	18.2	14.9	SAE-20
TTHH-110-160-VBB	23.7	20.3	SAE-20

3 Material Ordering Options: V/E/X : Visual / Electrical / None B / X: Bypass / None B / V: Buna / Viton

For example: TTHH-110-40-VBB: Series 110 Housing, 40gpm nominal flow rate, Visual Indicator, Bypass Valve, Buna-N Seals



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SERIES 120 SIMPLEX HOUSING

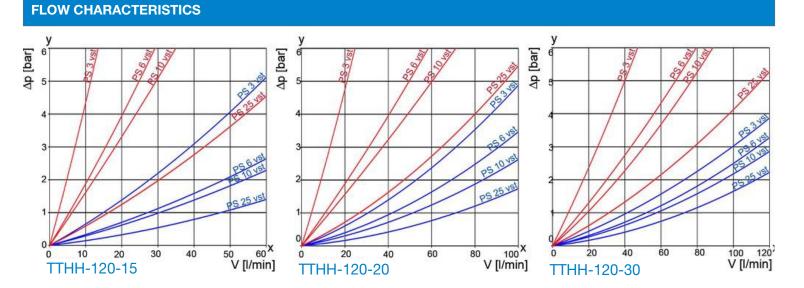
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SPECIFICATIONS

- Nominal working pressure 4500 PSI
- Visual indicator for element change out standard 72 PSI
- Automatic bypass valve standard 101 PSI Bypass Valve
- Operating temperature: -22°F to 248°F



Simplex Steel PowerGuard Housing



FLUID VISCOSITY

190 mm²/s 33 mm²/s



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SERIES 120 SIMPLEX HOUSING

Top Applications

- Hydraulic systems hydraulic oil
- Gas turbines turbine oil
- Gearbox lube systems gear oil

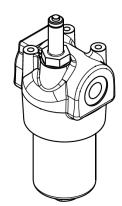
Machine Coolant

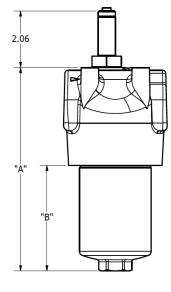
- **Top Industries**
- Power Generation
- Steel Mills
- Pulp & Paper
- Mining

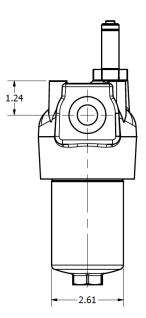
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DIMENSIONS IN INCHES			
PART NUMBER*	"A" Height	"B" Bowl Length	INLET OUTLET
TTHH-120-15-VBB	7.4	3.9	SAE-12
TTHH-120-20-VBB	10.5	6.9	SAE-12
TTHH-120-30-VBB	13.5	9.9	SAE-12

3 Material Ordering Options: V/E/X : Visual / Electrical / None B / X: Bypass / None B / V: Buna / Viton

For example:

TTHH-120-15-VBB: Series 120 Housing, 15gpm nominal flow rate, Visual Indicator, Bypass Valve, Buna-N Seals



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SERIES 130 SIMPLEX HOUSING

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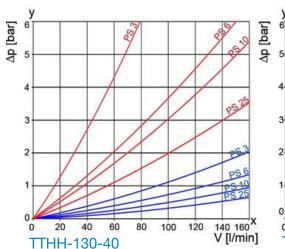
SPECIFICATIONS

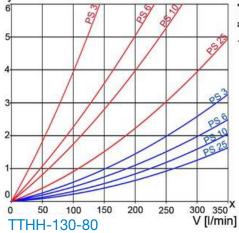
- Nominal working pressure 3000 PSI
- Visual indicator for element change out standard 72 PSI
- Automatic bypass valve standard 101 PSI Bypass Valve
- Operating temperature: -22°F to 248°F

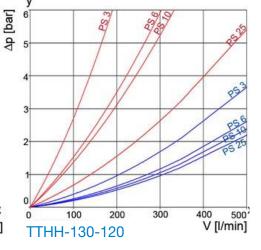


Simplex Steel PowerGuard Housing

FLOW CHARACTERISTICS







FLUID VISCOSITY

190 mm²/s 33 mm²/s



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SERIES 130 SIMPLEX HOUSING

Top Applications

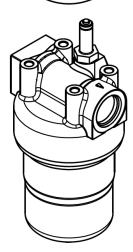
- Hydraulic systems hydraulic oil
- Gas turbines turbine oil
- Gearbox lube systems gear oil
- Machine Coolant

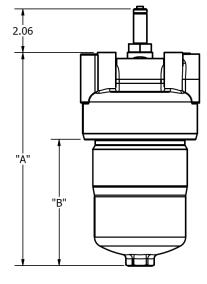
Top Industries

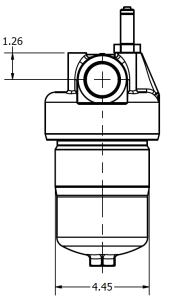
- Power Generation
- Steel Mills
- Pulp & Paper
- Mining

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DIMENSIONS IN INCHES

PART NUMBER*	"A" Height	"B" Bowl Length	INLET OUTLET
TTHH-130-40-VBB	9.1	5.0	SAE-20
TTHH-130-80-VBB	13.6	9.5	SAE-20
TTHH-130-120-VBB	18.2	14.1	SAE-20

3 Material Ordering Options: V/E/X : Visual / Electrical / None B / X: Bypass / None B / V: Buna / Viton

For example:

TTHH-130-40-VBB: Series 130 Housing, 40gpm nominal flow rate, Visual Indicator, Bypass Valve, Buna-N Seals



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SERIES 200 DUPLEX HOUSING

TTI's PowerGuard housing line is manufactured in Germany with premium German components and assembled in the USA. TTI has leveraged the 58 years of Hydraulic manufacturing expertise of <u>FG Industrial Filtration</u> (Formerly Mahle) to deliver the PowerGuard product line to the North American marketplace. All TTI Housings are available standard with a bypass valve, visual indicator, SAE connections and produced to be highly serviceable. The TTI housing line provides the versatility for intermittent or continual flow operations, while offering a range of flow and pressure ratings compatible with inline pressurized systems and return line filtration.

SPECIFICATIONS

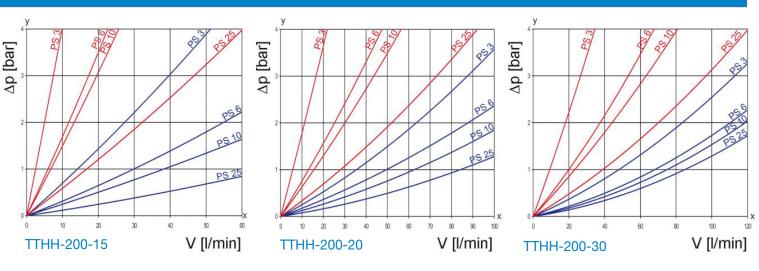
- Nominal working pressure 900 PSI
- Visual indicator for element change out standard 32 PSI
- Automatic bypass valve standard 50 PSI Bypass Valve
- Operating temperature: -22°F to 248°F





Duplex Aluminum PowerGuard Housing

FLOW CHARACTERISTICS



FLUID VISCOSITY

190 mm²/s 33 mm²/s



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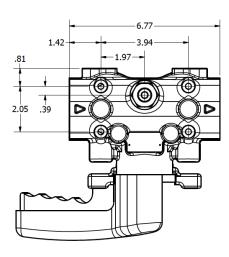
SERIES 200 SIMPLEX HOUSING

Top Applications

- Hydraulic systems hydraulic oil
- Gas turbines turbine oil
- Gearbox lube systems gear oil
- Machine Coolant

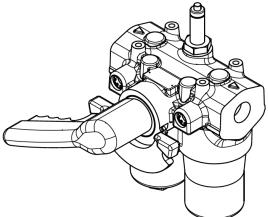
Top Industries

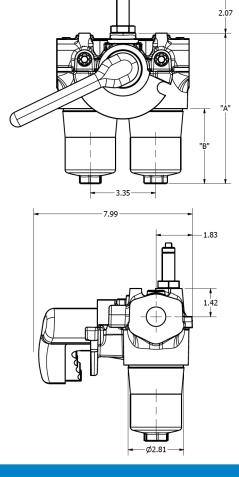
- Power Generation
- Steel Mills
- Pulp & Paper
- Mining



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DIMENSIONS IN INCHES

PART NUMBER*	"A" Height	"B" Bowl Length	INLET OUTLET
TTHH-200-15-VBB	8.0	4.1	SAE-16
TTHH-200-20-VBB	10.3	6.4	SAE-16
TTHH-200-30-VBB	13.8	10.0	SAE-16

3 Material Ordering Options: V/E/X : Visual / Electrical / None B / X: Bypass / None B / V: Buna / Viton

For example:

TTHH-200-15-VBB: Series 200 Housing, 15gpm nominal flow rate, Visual Indicator, Bypass Valve, Buna-N Seals

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SERIES 210 DUPLEX HOUSING

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SPECIFICATIONS

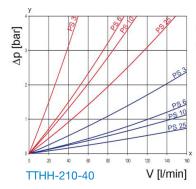
- Nominal working pressure 450 PSI
- Visual indicator for element change out standard 32 PSI
- Automatic bypass valve standard 50 PSI Bypass Valve
- Operating temperature: -22°F to 248°F

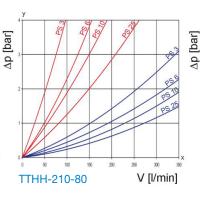


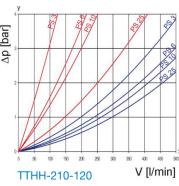


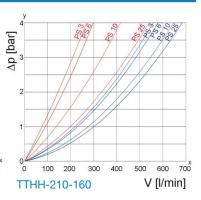
Duplex Aluminum PowerGuard Housing

FLOW CHARACTERISTICS









FLUID VISCOSITY

190 mm²/s 33 mm²/s



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SERIES 210 SIMPLEX HOUSING

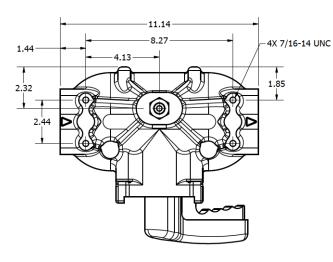
Top Applications

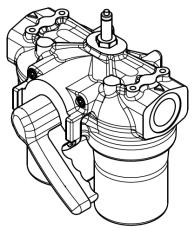
- Hydraulic systems hydraulic oil
- Gas turbines turbine oil
- Gearbox lube systems gear oil
- Gas turbines turbine of
- Machine Coolant

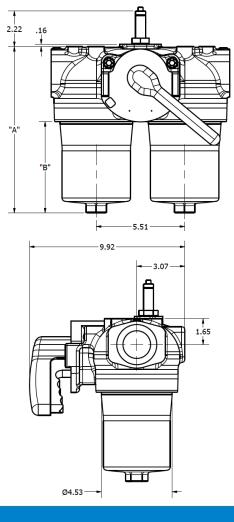
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Top Industries

- Power Generation
- Steel Mills
- Pulp & Paper
- Mining







DIMENSIONS IN INCHES

PART	"A"	"B"	
NUMBER*	Height	Bowl Length	OUTLET
TTHH-210-40-VBB	10.4	5.7	SAE-24
TTHH-210-80-VBB	15.2	10.5	SAE-24
TTHH-210-120-VBB	19.6	14.9	SAE-24
TTHH-210-160-VBB	25.0	20.3	SAE-24

3 Material Ordering Options: V/E/X : Visual / Electrical / None B / X: Bypass / None B / V: Buna / Viton

For example: TTHH-210-40-VBB: Series 210 Housing, 40gpm nominal flow rate, Visual Indicator, Bypass Valve, Buna-N Seals



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SERIES 220 DUPLEX HOUSING

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SPECIFICATIONS

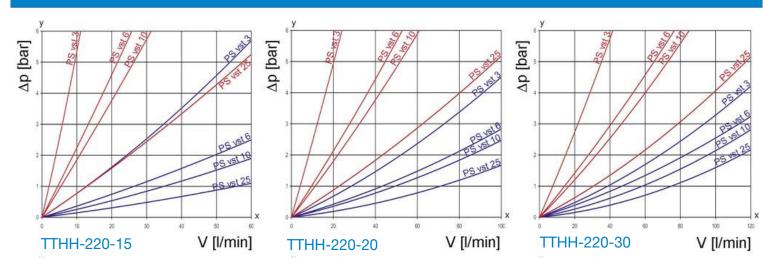
- Nominal working pressure 4500 PSI
- Visual indicator for element change out standard 72 PSI
- Automatic bypass valve standard 101 PSI Bypass Valve
- Operating temperature: -22°F to 248°F





Duplex Steel PowerGuard Housing

FLOW CHARACTERISTICS



FLUID VISCOSITY

190 mm²/s 33 mm²/s



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SERIES 220 DUPLEX HOUSING

Top Applications

- Hydraulic systems hydraulic oil
- Gas turbines turbine oil
- Gearbox lube systems gear oil
- Machine Coolant

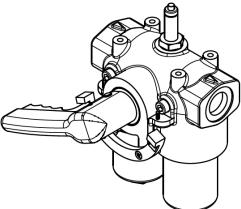
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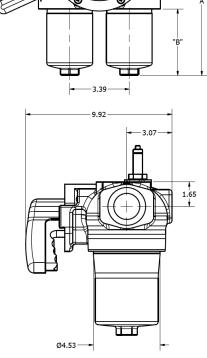
Top Industries

- Power Generation
- Steel Mills
- Pulp & Paper
- Mining

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7.32 1.69 3.94 3.66 .69 0 ¢ .69 6 ł 2.17 • 4X 3/8-16 UNC 0 Q O





DIMENSIONS IN INCHES

PART NUMBER*	"A" Height	"B" Bowl Length	INLET OUTLET
TTHH-220-15-VBB	8.6	3.9	SAE-16
TTHH-220-20-VBB	11.6	6.9	SAE-16

3 Material Ordering Options: V/E/X : Visual / Electrical / None B / X: Bypass / None B / V: Buna / Viton

For example:

TTHH-220-15-VBB: Series 220 Housing, 15gpm nominal flow rate, Visual Indicator, Bypass Valve, Buna-N Seals



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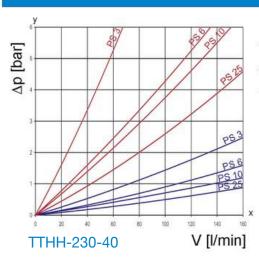
SERIES 230 DUPLEX HOUSING

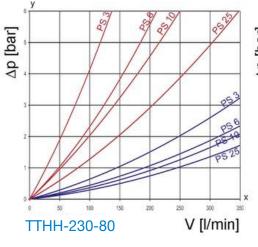
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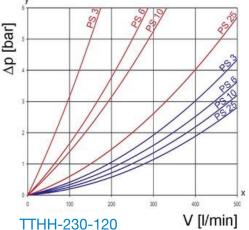
SPECIFICATIONS

- Nominal working pressure 3000 PSI
- Visual indicator for element change out standard 72 PSI
- Automatic bypass valve standard 101 PSI Bypass Valve
- Operating temperature: -22°F to 248°F

FLOW CHARACTERISTICS







FLUID VISCOSITY

190 mm²/s 33 mm²/s



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Duplex Steel PowerGuardTM Housing

SERIES 230 DUPLEX HOUSING

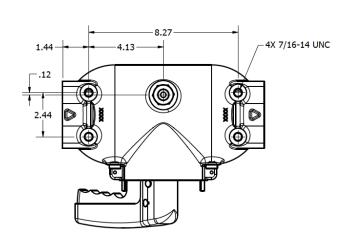
Top Applications

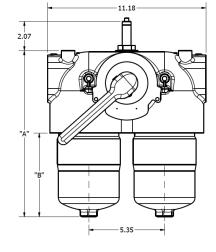
- Hydraulic systems hydraulic oil 0
- Gas turbines turbine oil
- Gearbox lube systems gear oil
- Machine Coolant

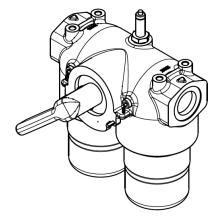
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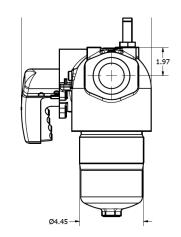
Top Industries

- Power Generation .
- Steel Mills
- Pulp & Paper •
- 0
- Mining •









DIMENSIONS IN INCHES

PART NUMBER*	"A" Height	"B" Bowl Length	INLET OUTLET
TTHH-230-40-VBB	11.9	5.9	SAE-24
TTHH-230-80-VBB	16.8	10.8	SAE-24
TTHH-230-120-VBB	21.4	15.4	SAE-24

3 Material Ordering Options: V/E/X : Visual / Electrical / None B / X: Bypass / None B / V: Buna / Viton

For example:

TTHH-230-40-VBB: Series 230 Housing, 40gpm nominal flow rate, Visual Indicator, Bypass Valve, Buna-N Seals



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TTHH626 HOUSING

TTI's PowerGuard TTHH626 housing line offers a standard 304 Stainless Steel construction. Features include a double knife edge seal on both the hold down plate and the bottom housing cup to mitigate bypass. The hinge block located on the lid, is a safe and effective component to remove and replace filter elements. There are 2 ports on both the inlet and outlet of the housing, to accommodate differential and sampling gauges.

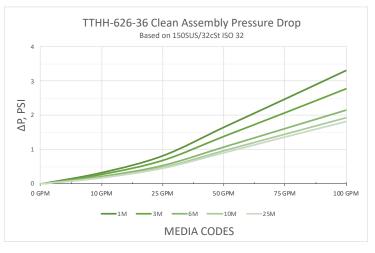
SPECIFICATIONS

- 150 PSI working pressure
- 304 Stainless Steel
- Hinged lid for safe, ergonomic filter changeouts
- Double knife edge seal



FLOW CHARACTERISTICS







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TTHH626 HOUSING

Top Applications

- Hydraulic systems hydraulic oil
- Gas turbines turbine oil

Top Industries

• Power Generation

Pulp & Paper

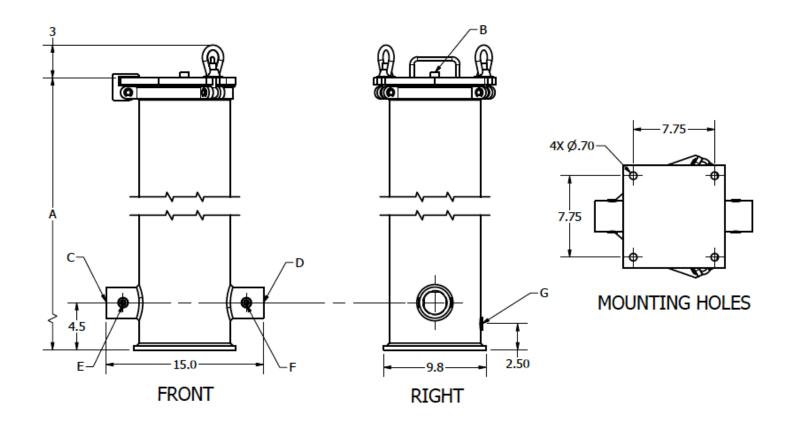
- Gearbox lube systems gear oil
- Machine Coolant

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Mining

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Steel Mills



DIMENSIONS IN	INCHES						
PART NUMBER*	"A Height"	"B Vent Port"	"C Inlet"	"D Outlet"	"E Inlet Sample Port"	"F Outlet Sample Port"	"G Drain Port"
TTHH-626-18-2N	28.0	1/4" FNPT	2" FNPT	2" FNPT	1/4" FNPT	1/4" FNPT	1/2" FNPT
TTHH-626-36-2N	46.0	1/4" FNPT	2" FNPT	2" FNPT	1/4" FNPT	1/4" FNPT	1/2" FNPT



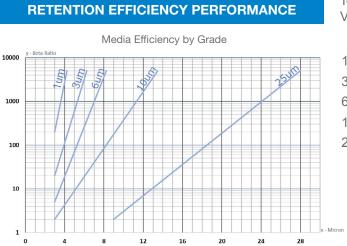
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DUAL PHASE MICROGLASS: FILTER MEDIA SELECTION GUIDE

The filter media is the most critical component through which particulate retention is accomplished. For the multitudes of fluids and applications, TTI has developed and offers a range of filtration media. This allows elements to be manufactured in a broad range of filtration capabilities to suit these applications.

TTI depth filters consist of Dual Phase media for the treatment of oils, lubricants, flame retardant liquids, fuels, and synthetic liquids. Our Dual Phase microglass is available in ratings of 1µm, 3µm, 6µm,10µm, and 25µm, with high dirt-holding capacity and low pressure drop.



Tested according to ISO 16889 (multi-pass test). Valid are valid up to 50 psi differential pressure.

1µm	β2.8(C)	≥ 1000
3µm	β4.5(C)	≥ 1000
6µm	β7(C)	≥ 1000
10µm	β11(C)	≥ 1000
25µm	β24(C)	≥ 1000

Filters used in hydraulic or lubrication systems are tasked with reducing particulate contamination to a targeted level of cleanliness over the service life of the element. The ISO 4406 standard presents a means of specifying these goals by way of a universal cleanliness code. The table below reflects our knowledge and experience designing elements and should be considered a starting point as to what you can expect from your system using the selected TTI microglass media. Your performance can vary based on flow rate, viscosity, differential pressure, and contamination level. It is recommended to conduct trials to verify your filtration process meets your performance goals.

ISO CLEANLINESS CLASSES FOR DUAL PHASE MICROGLASS MEDIA			
Filter Media Projected Cleanliness Codes Per ISO 4406 - 1999, 4µm / 6µm / 14µm			
1μm β1000	13/11/08		
3μm β1000	14/12/09		
6μm β1000	16/13/10		
10μm β1000	17/15/11		
25μm β1000	23/19/13		



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