

"Y" (WYE) STRAINER * THREADED AND SOCKET WELD

ANSI CLASS 600 * CARBON AND STAINLESS STEEL

MODELS: YCT3

(CARBON STEEL - THREADED)

YCS3

(CARBON STEEL - SOCKET WELD)

YST3

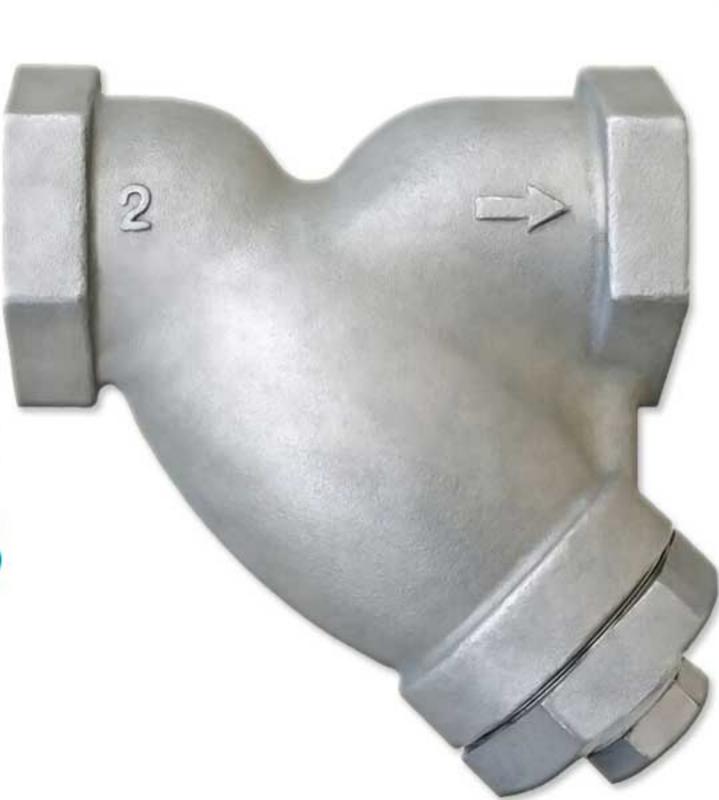
(STAINLESS STEEL - THREADED)

(STAINLESS STEEL - SOCKET WELD)

YCTB/YCSB3

(BOLTED COVER DESIGN) YSTB/YSSB3

(BOLTED COVER DESIGN)





FEATURES

BOLTED AND CAP COVER DESIGNS

STAYFLOW'S YCTB3 AND YCSB3 SIZES 21/2" AND 3" HAVE A BOLTED COVER AS STANDARD. AN OPTIONAL BOLTED COVER IS ALSO AVAILABLE ON SIZE 2". CAP COVERS ARE STANDARD ON YCT AND YCS SIZES 1/4" - 11/2".

RUGGED - HIGH QUALITY DESIGN

THE YCT AND YCS ARE IDEAL FOR PETROCHEMICAL AND OTHER DEMANDING INDUSTRIAL APPLICATIONS THAT HAVE HIGHER PRESSURE AND TEMPERATURE REQUIREMENTS.

LARGE STRAINING CAPACITY

WITH ITS LARGE BODY AND SIZABLE STRAINING ELEMENT, THE YCT AND YCS PROVIDE EXCELLENT OPEN AREA RATIOS THAT ARE TYPICALLY TWO-AND-A-HALF TIMES LARGER THAN THE CORRESPONDING PIPELINE.

PRECISION MACHINED SEATS

PRECISION MACHINED SCREEN SEATS IN BOTH THE BODY AND CAP HELP TO ENSURE ACCURATE POSITIONING OF THE SCREEN DURING REASSEMBLY AFTER CLEANING. ALSO, THE MACHINED BODY SEATS ENABLE FINER FILTRATION BY PREVENTING DEBRIS BYPASS.

SELF-CLEANING CAPABILITY

WITH THE OPTIONAL SOCKET WELD BLOW-OFF CONNECTION, THIS UNIT CAN BE FITTED WITH A BLOW-DOWN VALVE WHICH FACILITATES CLEANING OF THE STRAINING ELEMENT. PLEASE CONTACT FACTORY FOR MORE INFORMATION.

EPOXY PAINTED

CARBON UNITS ARE EPOXY PAINTED TO HELP RESIST RUST AND CORROSION. STAYFLOW ALSO OFFERS EPOXY COATING. PLEASE CONTACT FACTORY FOR MORE INFORMATION.

TECHNICAL

PRESSURE/ TEMPERATURE RATING CS - ASTM A216 GR. WCB - CLASS 600

WOG (Non-shock): 1480 PSI @ 100 °F

PRESSURE/TEMPERATURE RATING SS - ASTM A351 GR. CF8M - CLASS 600

WOG (Non-shock): 1440 PSI @ 100 °F

- The above listed temperatures are theoretical and may vary during actual operating conditions.
- Carbon Steel not recommended for prolonged use above 800 °F.
- Stainless Steel not recommended for prolonged use above 1000 °F.

CARBON STEEL PROPERTIES: CARBON STEEL PERFORMS EXCEPTIONALLY WELL IN HIGH TEMPERATURES, UP TO 800°F IN CONTINUOUS SERVICE. IT PROVIDES HIGH RESISTANCE TO SHOCK, VIBRATION, PIPING STRAINS, AND FIRE AND FREEZING HAZARDS. CARBON STEEL STRAINERS ARE OFTEN USED IN THE OIL AND PETROCHEMICAL INDUSTRIES

STAINLESS STEEL PROPERTIES: STAINLESS STEEL IS COMMONLY SPECIFIED FOR HIGH TEMPERATURE SERVICE, UP TO 1000°F IN CONTINUOUS SERVICE. STAINLESS STEEL STRAINERS ARE COMMONLY FOUND IN THE CHEMICAL, FOOD, AND PHARMACEUTICAL INDUSTRIES.

The above data represents common market and service applications. No representation or guarantee, expressed or implied, is given due to the numerous variations of concentrations, temperatures and flow conditions that may occur during actual service.



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WYE STRAINER

Threaded Ends

(Carbon Steel

YCT3 (Carbon Steel)
YST3 (Stainless Steel)

Socket Weld Ends

YCS3 (Carbon Steel)

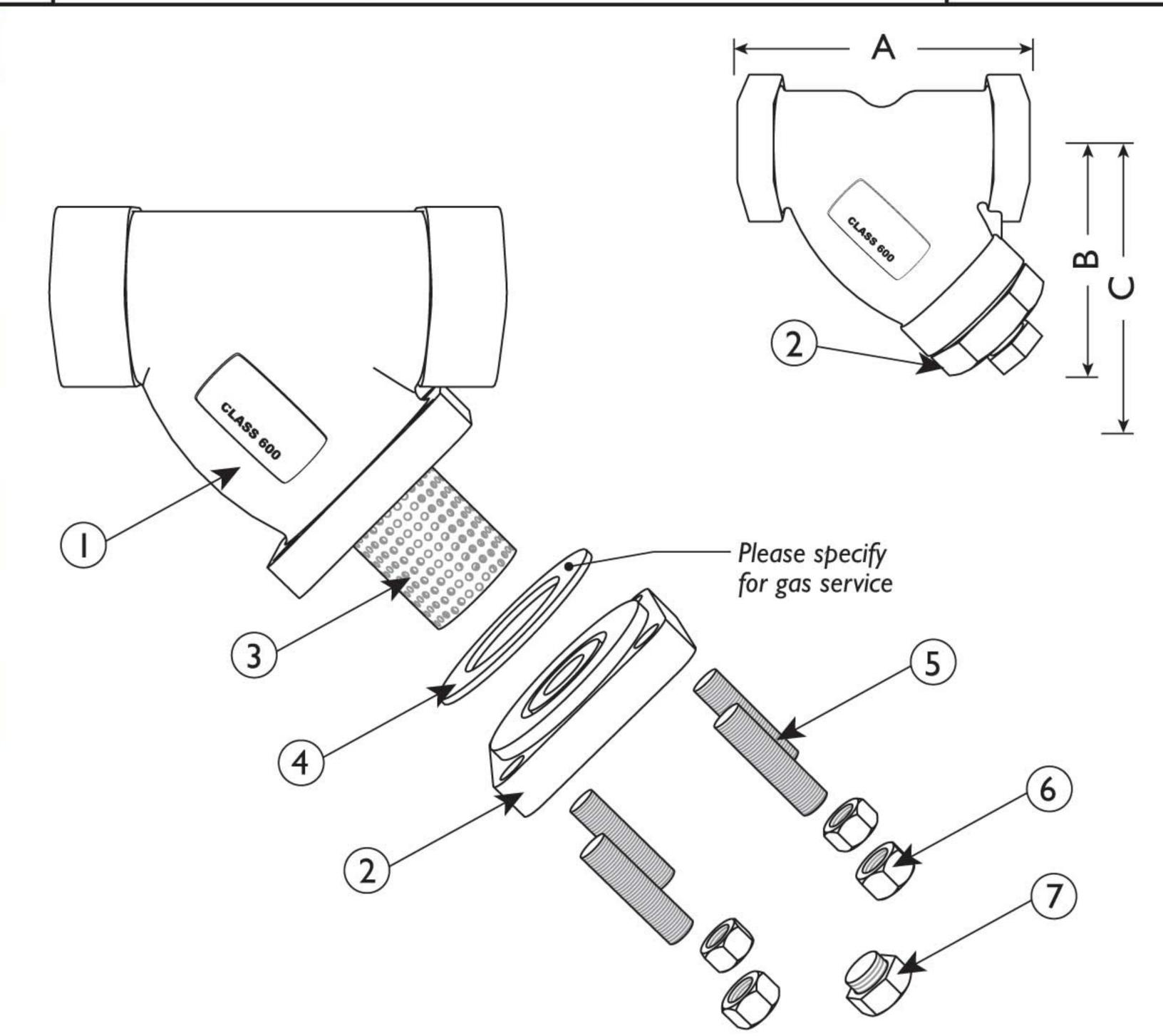
YSS3 (Stainless Steel)

ANSI Class 600

	BILL OF MATERIALS (1)										
No.	PART YCT3 YST3										
	Body (2)	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M								
2	Cover/Cap (5)	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M								
3	Straining Element (3)	Stainless Steel	Stainless Steel								
4	Gasket (3)(4)	Stainless Steel Spiral Wound	Stainless Steel Spiral Wound								
5	Studs (5) BC models only	Alloy Steel	Alloy Steel								
6	Nuts (5) BC models only	Alloy Steel	Alloy Steel								
7	Plug	Carbon Steel	Stainless Steel								

- Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
- 2. Available in additional body materials, such as LCB, WC6, WC9, 316L, Alloy 20, and Monel.
- 3. Denotes recommended spare parts.
- 4. The cover gasket is encapsulated in a machined recessed seat. A wide range of gasket materials are available; contact factory.
- 5. Only bolted cover designs (2½", 3", and optional 2") have Parts 5 and 6 (Studs and Nuts). Threaded cap covers are standard on Sizes ¼" through 1½". Size 2" is available with either a bolted or cap cover.

6. Carbon Steel bodies are epoxy painted.



			DIMENS	SIONS AND	PERFORI	MANCE D	ATA (I)				
SIZE	in	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2 ⁽³⁾	2 I/2 ⁽⁴⁾	3 ⁽⁴⁾
SIZE	mm	8	10	15	20	25	32	40	50	65	80
A DIMENSION	in	2.93	2.93	2.93	3.68	4.56	4.93	5.56	6.93	n/a	n/a
THREADED COVER	mm	75	75	75	94	116	126	142	177	n/a	n/a
A DIMENSION	in		OLTED CO	VED NOT A	/A A D E	1 CIZEC 1/.	" 11/."		7.50	12.00	12.00
BOLTED COVER	mm	· ·	SOLTED CO	VER NOT A	VAILABLE II	N SIZES /4	- 1 /2		191	305	305
B DIMENSION	in	2.37	2.37	2.37	2.81	3.68	4.12	4.75	6.00	10.50	10.50
CENTER LINE TO BOTTOM	mm	61	61	61	72	94	105	121	153	267	267
C DIMENSION	in	2.62	2.62	2.62	3.37	4.75	5.25	6.00	7.25	16.00	16.00
SCREEN REMOVAL	mm	67	67	67	86	121	134	153	184	407	407
D NPT Plug	in	1/4	1/4	1/4	3/8	3/8	3/4	3/4	1	1 1/4	1 1/4
BLOW-OFF	mm	8	8	8	10	10	20	20	25	32	32
APPROXIMATE	lb	1.5	1.5	1.5	2.5	5.0	5.5	9.0	13.0	46.0	43.0
ASSEMBLED WEIGHT	kg	0.7	0.7	0.7	1.1	2.3	2.5	4.1	5.9	20.9	19.5
Flow Coefficient	C _V	0.7	2	8	15	22	38	42	70	110	160

- 1. Dimensions and weights are for reference only. When required, request certified drawings.
- 2. Face to face values have a tolerance of ±0.06 in (±2.0 mm) for sizes 10" and lower.
- 3. Size 2" is available in either a cap or bolted cover; please specify when ordering. Weight given is for model with cap cover.
- 4. Sizes $2\frac{1}{2}$ " and 3" have bolted covers.

		PF	RESSUR	E-TEM	1PERAT	URE RA	ATINGS		
		SOURCE: ASME/	ANSI B16.1				Carbon St	eel VCB ANSI CI eel not recon ged use above	nmended
	1500 -						— Stainless S A351 Gr. C		Class 600
(PSI)	1200 -							ged use above	
Pressure (PSI)	900 -								
	600 -								
	300 -								
	_ ا	1			1	1			
	-100	50	200	350	500	650	800	950	1100
					Temperature	e (°F)			

PRESSURE - TEMPERATURE RATING										
Body Material	A216 Gr.WCB	A351 Gr. CF8M								
WOG (Non-shock):	1480 PSI @ 100 °F	1440 PSI @ 100 °F								

REFERENCED STANDARDS & CODES							
CODE	DESCRIPTION						
ANSI/ASME B1.20.1	National Pipe Thread Taper						
ASME/ANSI B16.11	Forged Steel Fittings, Socket-Welding & Threaded						
ASME/ANSI B16.34	Flanged, Threaded, and Welding End						

STANDARD SCREEN SELECTIONS										
Size Liquid Open Area Steam Op										
1/2" ~ 3"	1/16 (.0625)	41%	1/32 (.033)	28%						



"Y" (WYE) STRAINER * THREADED AND SOCKET WELD

ANSI CLASS 1500 * CARBON AND STAINLESS STEEL

MODELS: YCT5

(CARBON STEEL - THREADED)

YCS5

(CARBON STEEL - SOCKET WELD)

(STAINLESS STEEL - THREADED)

YSS5

(STAINLESS STEEL - SOCKET WELD)



FEATURES

RUGGED - HIGH QUALITY DESIGN

STAYFLOW'S YC/ST5 AND YC/SS5 ARE IDEAL FOR PETROCHEMICAL AND OTHER DEMANDING INDUSTRIAL APPLICATIONS THAT HAVE HIGHER PRESSURE AND TEMPERATURE REQUIREMENTS. THEY ARE DUAL RATED FOR ANSI CLASS 600 AND 1500.

LARGE STRAINING CAPACITY

WITH ITS LARGE BODY AND SIZABLE STRAINING ELEMENT, THE YC/ST AND YC/SS PROVIDE EXCELLENT OPEN AREA RATIOS THAT ARE TYPICALLY TWO-AND-A-HALF TIMES LARGER THAN THE CORRESPONDING PIPELINE.

PRECISION MACHINED SEATS

PRECISION MACHINED SCREEN SEATS IN BOTH THE BODY AND CAP HELP TO ENSURE ACCURATE POSITIONING OF THE SCREEN DURING REASSEMBLY AFTER CLEANING. ALSO, THE MACHINED BODY SEATS ENABLE FINER FILTRATION BY PREVENTING DEBRIS BYPASS.

ENCAPSULATED "CG" STYLE GASKET

THE "CG" STYLE COVER GASKET PROVIDES ADDITIONAL RADIAL STRENGTH TO PREVENT GASKET BLOWOUT. IT ALSO ACTS AS A COMPRESSION STOP.

SELF-CLEANING CAPABILITY

WITH THE OPTIONAL SOCKET WELD BLOW-OFF CONNECTION, THIS UNIT CAN BE FITTED WITH A BLOW-DOWN VALVE WHICH FACILITATES CLEANING OF THE STRAINING ELEMENT. PLEASE CONTACT FACTORY FOR MORE INFORMATION.

EPOXY PAINTED

CARBON UNITS ARE EPOXY PAINTED TO HELP RESIST RUST AND CORROSION. STAYFLOW ALSO OFFERS EPOXY COATING. PLEASE CONTACT FACTORY FOR MORE INFORMATION.

TECHNICAL

PRESSURE/TEMPERATURE RATING CS - ASTM A216 GR. WCB - CLASS 1500

WOG (Non-shock): 3705 PSI @ 100 °F

PRESSURE/ TEMPERATURE RATING SS - ASTM A351 GR. CF8M - CLASS 1500

WOG (Non-shock): 3600 PSI @ 100 °F

- The above listed temperatures are theoretical and may vary during actual operating conditions.
- Carbon Steel not recommended for prolonged use above 800 °F.
- Stainless Steel not recommended for prolonged use above 1000 °F.

CARBON STEEL PROPERTIES: CARBON STEEL PERFORMS EXCEPTIONALLY WELL IN HIGH TEMPERATURES, UP TO 800°F IN CONTINUOUS SERVICE. IT PROVIDES HIGH RESISTANCE TO SHOCK, VIBRATION, PIPING STRAINS, AND FIRE AND FREEZING HAZARDS. CARBON STEEL STRAINERS ARE OFTEN USED IN THE OIL AND PETROCHEMICAL INDUSTRIES

STAINLESS STEEL PROPERTIES: STAINLESS STEEL IS COMMONLY SPECIFIED FOR HIGH TEMPERATURE SERVICE, UP TO 1000°F IN CONTINUOUS SERVICE. STAINLESS STEEL STRAINERS ARE COMMONLY FOUND IN THE CHEMICAL, FOOD, AND PHARMACEUTICAL INDUSTRIES.

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WYE STRAINER

Threaded Ends

YCT (Carbon Steel)
YST (Stainless Steel)

Socket Weld Ends

YCS (Carbon Steel)
YCT (Stainless Steel)

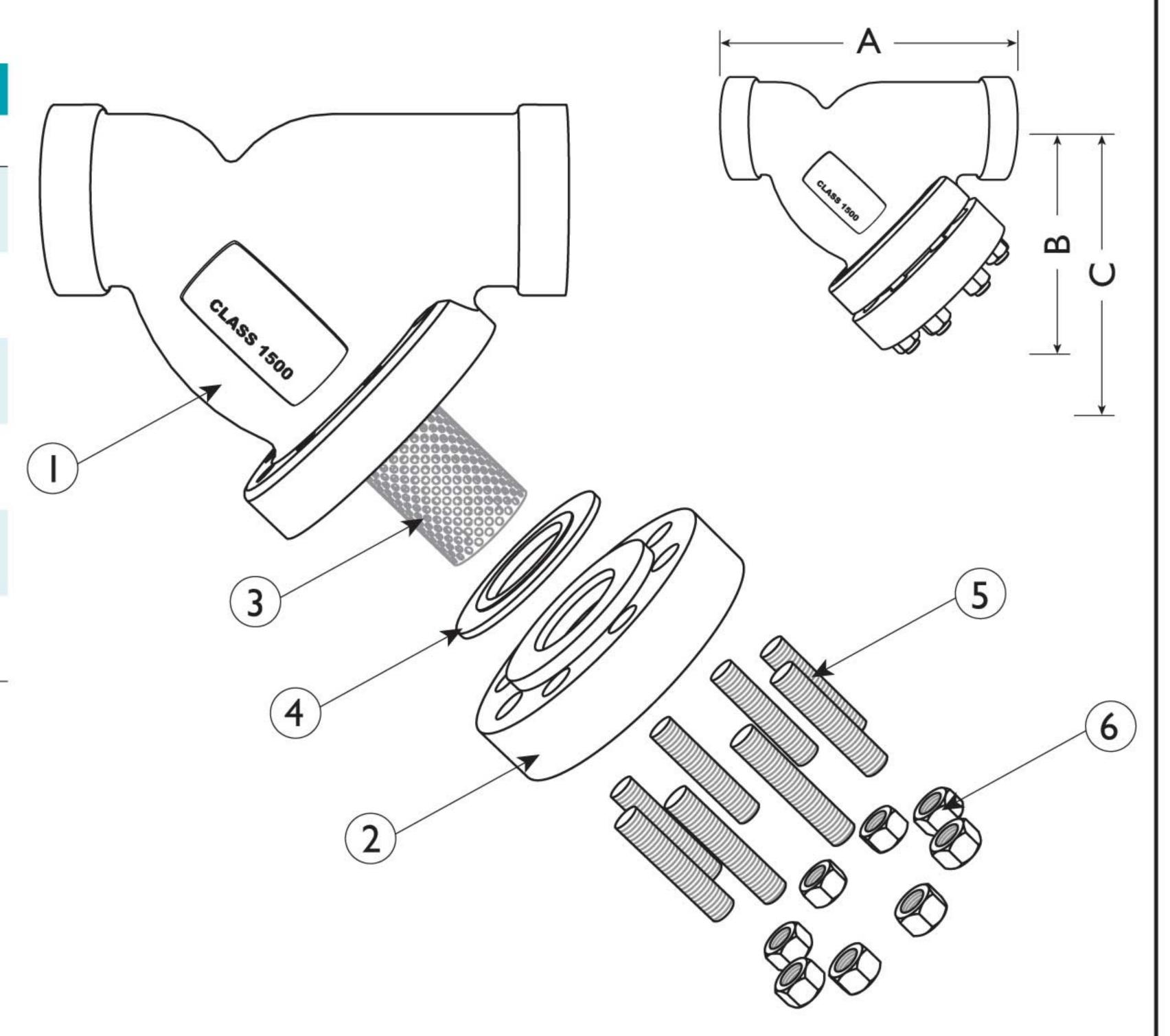
ANSI Class 1500

	BILL OF MATERIALS (1)										
No.	PART	YCT	YST								
1	Body	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M								
2	Cover	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M								
3	Straining Element (2)	Stainless Steel	Stainless Steel								
4	Gasket (2)	Stainless Steel CG Style	Stainless Steel CG Style								
5	Studs	Alloy Steel	Alloy Steel								
6	Nuts	Alloy Steel	Alloy Steel								

- Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
- 2. Denotes recommended spare parts.
- 3. Carbon Steel bodies are epoxy painted.

Additional Design & Technical Notes:

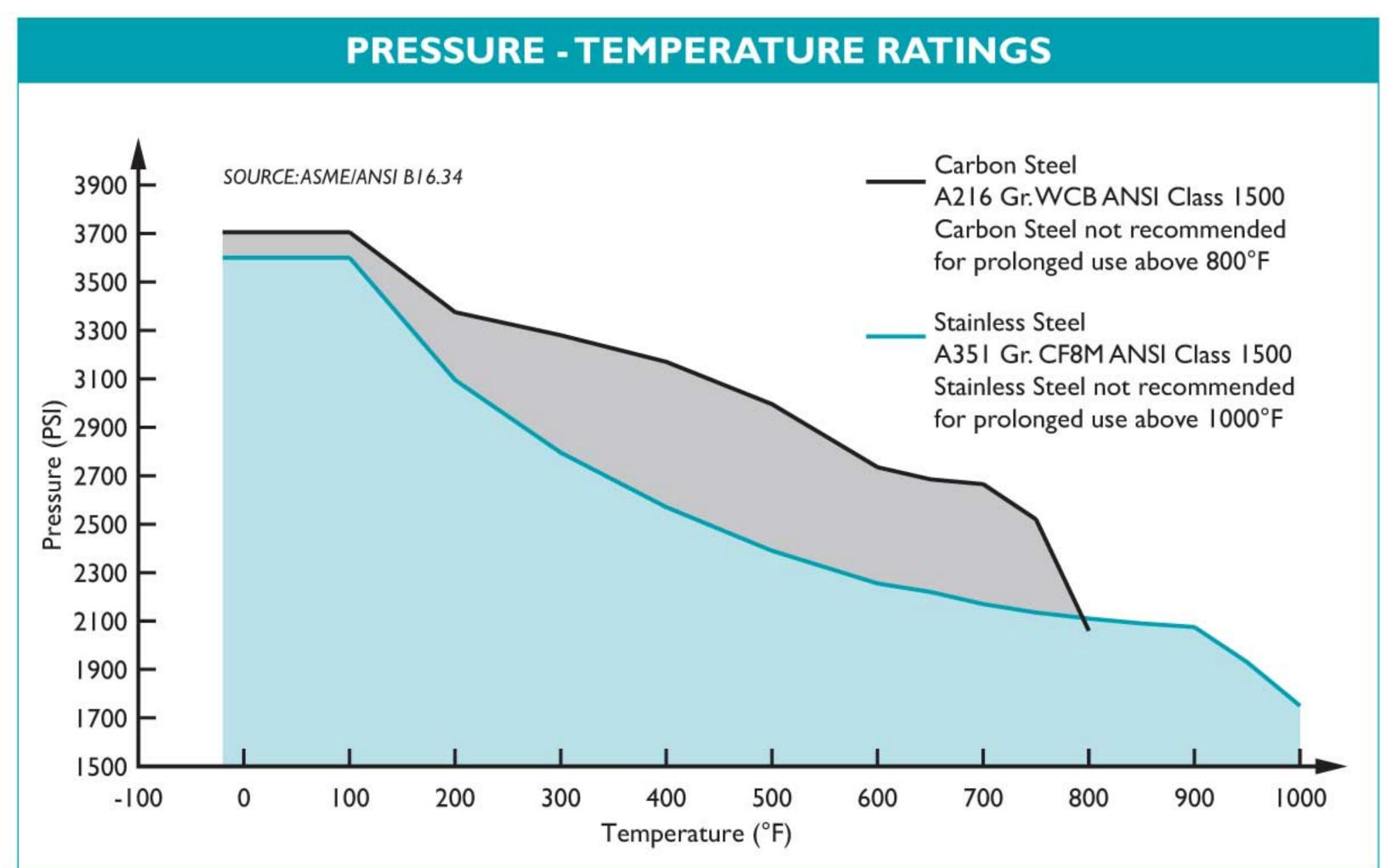
- NPT blow-offs are not recommended for ANSI Class 1500 strainers. An
 optional socket weld blow-off is available. Contact factory for details.
- A wide range of optional gasket materials are available.
- Bodies are also available in high temperature steel A217 Gr. WC6, WC9, and other materials. Please contact factory for price and delivery.



Illustrations are representative of sizes 1/2" through 3". Please ask for certified drawings when required.

DIMENSIONS AND PERFORMANCE DATA (1)													
SIZE	in	1/2	3/4	1	1 1/4	I I/2	2	2 I/2 (3)	3 (3)				
SIZE	mm	15	20	25	32	40	50	65	80				
A DIMENSION	in	3.94	4.25	6.00	8.37	8.37	10.50	C/F	C/F				
FACE TO FACE (2)	mm	101	108	153	213	213	267	C/F	C/F				
B DIMENSION	in	3.00	3.75	5.75	5.50	5.50	9.25	C/F	C/F				
CENTER LINE TO BOTTOM	mm	77	96	147	140	140	235	C/F	C/F				
C DIMENSION	in	4.25	5.25	7.00	8.00	8.00	11.00	C/F	C/F				
SCREEN REMOVAL	mm	108	134	178	204	204	280	C/F	C/F				
APPROXIMATE	lb	4.5	8.0	12.0	27.0	26.5	44.5	96.0	104.0				
ASSEMBLED WEIGHT	kg	2.0	3.7	5.4	12.2	12.0	20.2	43.5	47.2				
Flow Coefficient	C _V	6	11	16	32	34	60	140	140				

- 1. Dimensions and weights are for reference only. When required, request certified drawings. 3. Contact factory before ordering a 2-1/2" or 3" to get dimensions and performance data.
- 2. Face to face values have a tolerance of ±0.06 in (±2.0 mm) for sizes 10" and lower.



CODE DESCRIPTION ASME/ANSI B16.11 Forged Steel Fittings, Socket-Welding & Threaded ASME/ANSI B16.34 Flanged, Threaded, and Welding End

STANDARD SCREEN SELECTIONS									
Size	Liquid	Open Area	Steam	Open Area					
1/2" ~ 3"	1/16 (.0625)	41%	1/32 (.033)	28%					

PRESSURE - TEMPERATURE RATING									
Body Material A216 Gr. WCB A351 Gr. CF8M									
WOG (Non-shock):	3705 PSI @ 100 °F	3600 PSI @ 100 °F							



"Y" (WYE) STRAINER * THREADED AND SOCKET WELD

ANSI CLASS 600 * CARBON AND STAINLESS STEEL

MODELS: YCT3

(CARBON STEEL - THREADED)

YCS3

(CARBON STEEL - SOCKET WELD)

YST3

(STAINLESS STEEL - THREADED)

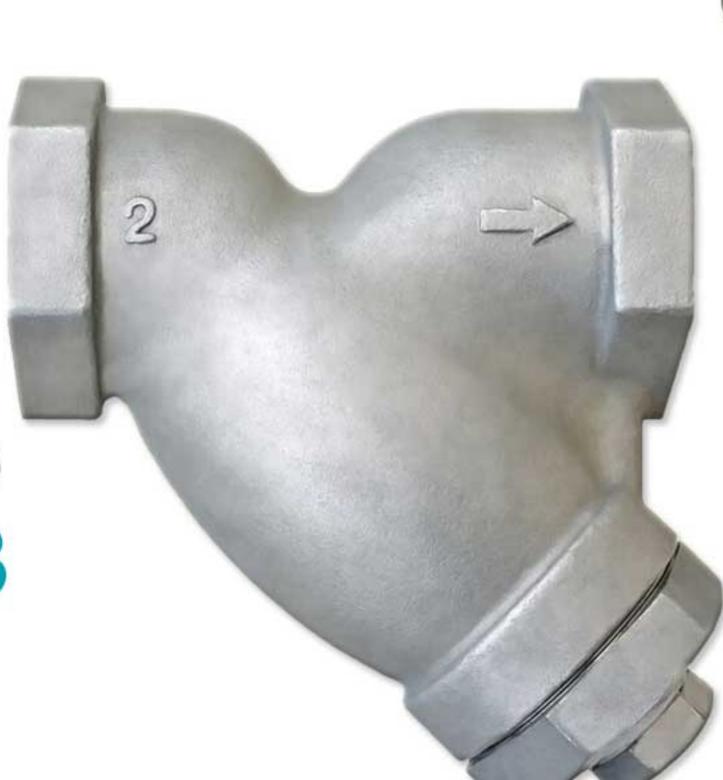
(STAINLESS STEEL - SOCKET WELD)

YCTB/YCSB3

(BOLTED COVER DESIGN)

YSTB/YSSB3

(BOLTED COVER DESIGN)



SIZE RANGE CAP COVER: 1/4" ~ 2" BOLTED COVER: 2" ~ 3"

FEATURES

BOLTED AND CAP COVER DESIGNS

STAYFLOW'S YCTB3 AND YCSB3 SIZES 21/2" AND 3" HAVE A BOLTED COVER AS STANDARD. AN OPTIONAL BOLTED COVER IS ALSO AVAILABLE ON SIZE 2". CAP COVERS ARE STANDARD ON YCT AND YCS SIZES 1/4" - 11/2".

RUGGED - HIGH QUALITY DESIGN

THE YCT AND YCS ARE IDEAL FOR PETROCHEMICAL AND OTHER DEMANDING INDUSTRIAL APPLICATIONS THAT HAVE HIGHER PRESSURE AND TEMPERATURE REQUIREMENTS.

LARGE STRAINING CAPACITY

WITH ITS LARGE BODY AND SIZABLE STRAINING ELEMENT, THE YCT AND YCS PROVIDE EXCELLENT OPEN AREA RATIOS THAT ARE TYPICALLY TWO-AND-A-HALF TIMES LARGER THAN THE CORRESPONDING PIPELINE.

PRECISION MACHINED SEATS

PRECISION MACHINED SCREEN SEATS IN BOTH THE BODY AND CAP HELP TO ENSURE ACCURATE POSITIONING OF THE SCREEN DURING REASSEMBLY AFTER CLEANING. ALSO, THE MACHINED BODY SEATS ENABLE FINER FILTRATION BY PREVENTING DEBRIS BYPASS.

SELF-CLEANING CAPABILITY

WITH THE OPTIONAL SOCKET WELD BLOW-OFF CONNECTION, THIS UNIT CAN BE FITTED WITH A BLOW-DOWN VALVE WHICH FACILITATES CLEANING OF THE STRAINING ELEMENT. PLEASE CONTACT FACTORY FOR MORE INFORMATION.

EPOXY PAINTED

CARBON UNITS ARE EPOXY PAINTED TO HELP RESIST RUST AND CORROSION. STAYFLOW ALSO OFFERS EPOXY COATING. PLEASE CONTACT FACTORY FOR MORE INFORMATION.

TECHNICAL

PRESSURE/ TEMPERATURE RATING CS - ASTM A216 GR. WCB - CLASS 600

WOG (Non-shock): 1480 PSI @ 100 °F

PRESSURE/TEMPERATURE RATING SS - ASTM A351 GR. CF8M - CLASS 600

WOG (Non-shock): 1440 PSI @ 100 °F

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- Stainless Steel not recommended for prolonged use above 1000 °F.

CARBON STEEL PROPERTIES: CARBON STEEL PERFORMS EXCEPTIONALLY WELL IN HIGH TEMPERATURES, UP TO 800°F IN CONTINUOUS SERVICE. IT PROVIDES HIGH RESISTANCE TO SHOCK, VIBRATION, PIPING STRAINS, AND FIRE AND FREEZING HAZARDS. CARBON STEEL STRAINERS ARE OFTEN USED IN THE OIL AND PETROCHEMICAL INDUSTRIES

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WYE STRAINER

Threaded Ends

(Carbon Steel

YCT3 (Carbon Steel)
YST3 (Stainless Steel)

Socket Weld Ends

YCS3 (Carbon Steel)

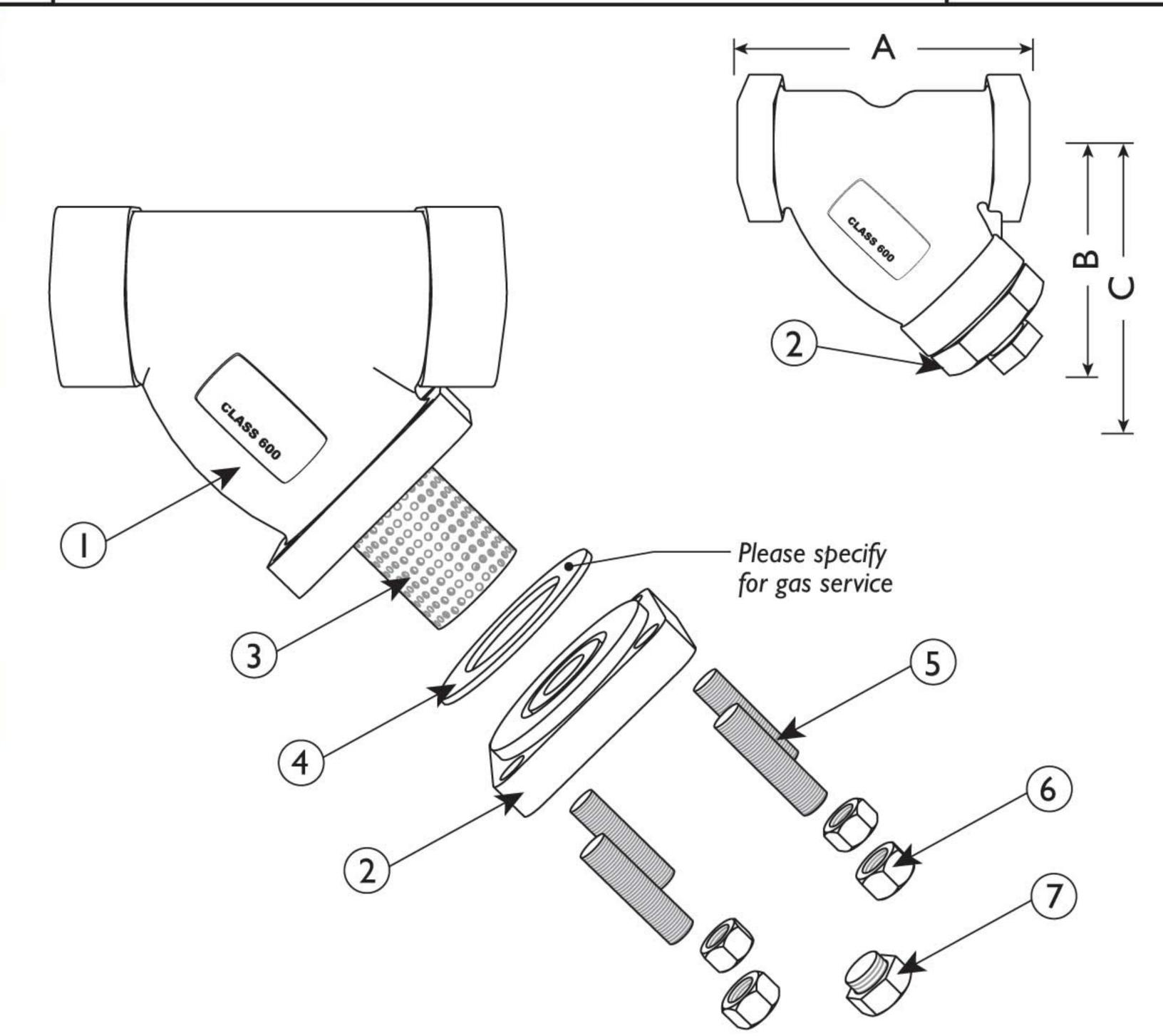
YSS3 (Stainless Steel)

ANSI Class 600

	BILL OF MATERIALS (1)										
No.	PART YCT3 YST3										
	Body (2)	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M								
2	Cover/Cap (5)	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M								
3	Straining Element (3)	Stainless Steel	Stainless Steel								
4	Gasket (3)(4)	Stainless Steel Spiral Wound	Stainless Steel Spiral Wound								
5	Studs (5) BC models only	Alloy Steel	Alloy Steel								
6	Nuts (5) BC models only	Alloy Steel	Alloy Steel								
7	Plug	Carbon Steel	Stainless Steel								

- Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
- 2. Available in additional body materials, such as LCB, WC6, WC9, 316L, Alloy 20, and Monel.
- 3. Denotes recommended spare parts.
- 4. The cover gasket is encapsulated in a machined recessed seat. A wide range of gasket materials are available; contact factory.
- 5. Only bolted cover designs (2½", 3", and optional 2") have Parts 5 and 6 (Studs and Nuts). Threaded cap covers are standard on Sizes ¼" through 1½". Size 2" is available with either a bolted or cap cover.

6. Carbon Steel bodies are epoxy painted.



			DIMENS	SIONS AND	PERFORI	MANCE D	ATA (I)				
SIZE	in	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2 ⁽³⁾	2 I/2 ⁽⁴⁾	3 ⁽⁴⁾
SIZE	mm	8	10	15	20	25	32	40	50	65	80
A DIMENSION	in	2.93	2.93	2.93	3.68	4.56	4.93	5.56	6.93	n/a	n/a
THREADED COVER	mm	75	75	75	94	116	126	142	177	n/a	n/a
A DIMENSION	in		OLTED CO	VED NOT A	/A A D E	1 CIZEC 1/.	" 11/."		7.50	12.00	12.00
BOLTED COVER	mm	· ·	SOLTED CO	VER NOT A	VAILABLE II	N SIZES /4	- 1 /2		191	305	305
B DIMENSION	in	2.37	2.37	2.37	2.81	3.68	4.12	4.75	6.00	10.50	10.50
CENTER LINE TO BOTTOM	mm	61	61	61	72	94	105	121	153	267	267
C DIMENSION	in	2.62	2.62	2.62	3.37	4.75	5.25	6.00	7.25	16.00	16.00
SCREEN REMOVAL	mm	67	67	67	86	121	134	153	184	407	407
D NPT Plug	in	1/4	1/4	1/4	3/8	3/8	3/4	3/4	1	1 1/4	1 1/4
BLOW-OFF	mm	8	8	8	10	10	20	20	25	32	32
APPROXIMATE	lb	1.5	1.5	1.5	2.5	5.0	5.5	9.0	13.0	46.0	43.0
ASSEMBLED WEIGHT	kg	0.7	0.7	0.7	1.1	2.3	2.5	4.1	5.9	20.9	19.5
Flow Coefficient	C _V	0.7	2	8	15	22	38	42	70	110	160

- 1. Dimensions and weights are for reference only. When required, request certified drawings.
- 2. Face to face values have a tolerance of ±0.06 in (±2.0 mm) for sizes 10" and lower.
- 3. Size 2" is available in either a cap or bolted cover; please specify when ordering. Weight given is for model with cap cover.
- 4. Sizes $2\frac{1}{2}$ " and 3" have bolted covers.

		PF	RESSUR	E-TEM	1PERAT	URE RA	ATINGS		
	SOURCE: ASME/ANSI B16.1				—— Carbon Steel A216 Gr.WCB ANSI Class 600 Carbon Steel not recommended for prolonged use above 800°F				nmended
	1500 -						— Stainless S A351 Gr. C		Class 600
(PSI)	1200 -							ged use above	
Pressure (PSI)	900 -						1		
	600 -								
	300 -								
	_ ا	1			1	All I			
	-100	50	200	350	500	650	800	950	1100
					Temperature	e (°F)			

PRESSURE - TEMPERATURE RATING						
Body Material	A216 Gr.WCB	A351 Gr. CF8M				
WOG (Non-shock):	1480 PSI @ 100 °F	1440 PSI @ 100 °F				

REFERENCED STANDARDS & CODES				
CODE	DESCRIPTION			
ANSI/ASME B1.20.1	National Pipe Thread Taper			
ASME/ANSI B16.11	Forged Steel Fittings, Socket-Welding & Threaded			
ASME/ANSI B16.34	Flanged, Threaded, and Welding End			

STANDARD SCREEN SELECTIONS					
Size	Liquid	Open Area	Steam	Open Area	
1/2" ~ 3"	1/16 (.0625)	41%	1/32 (.033)	28%	