PENTAIR

YARWAY

High Pressure piston traps with a quick change trim design.

Features

- Quick Change Trim- easily replaced without removing the trap body from the line
- Long life Materials - Chrome Moly body and bonnet, stainless steel internals
- Broad range of Pressure Classes- Classes 600 (PN100) and 1500 (PN 250) are standard
- Integral Screen - Eliminates extra piping connections
- Range of Capacities - Depends upon the trap internals applicable to the pressure class
- Seaworthy - Shock and vibration tested in accordance with MIL specs
- Optional Blow-Off Valve Connection - 1/2" socket weld.

Typical applications

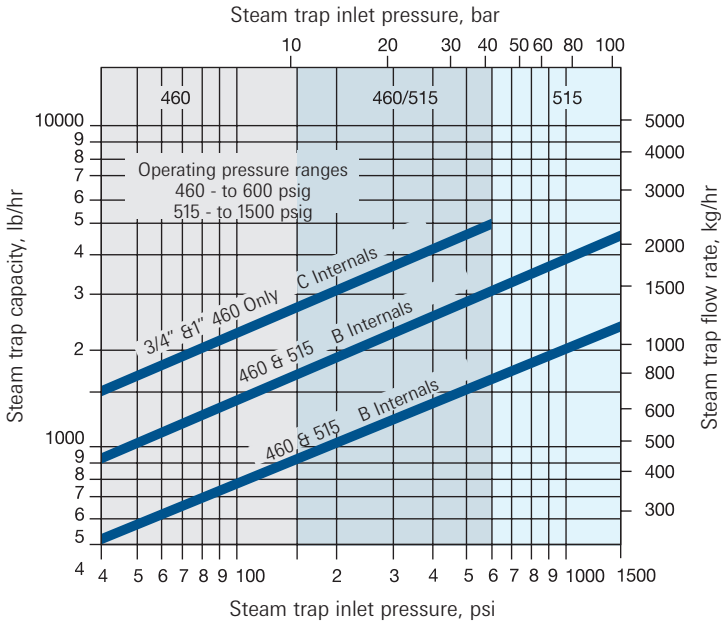
In all plants and utilities where high pressure steam is distributed and used for process applications e.g. main steam line drains etc.

How to interpret the curves

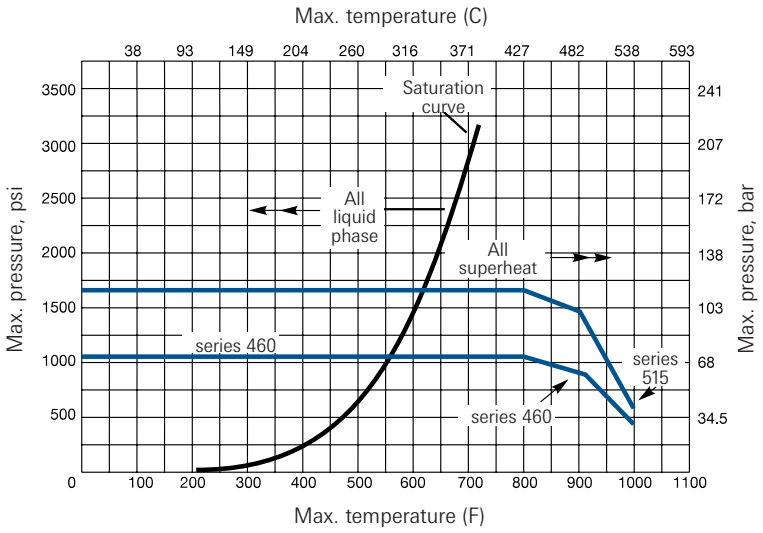
First, use the shell pressure / temperature curves to confirm that the trap selected is suitable for the design maximum pressure and temperature of the application. Then, select the trap on the basis of operating pressure. For instance, for operating pressures to 600 psig (41 barg), choose a Series 460 trap; to 1500 psig (103 barg), choose a Series 515 trap.
Finally, select the trap internals that will provide the required discharge capacity at the operating pressure.

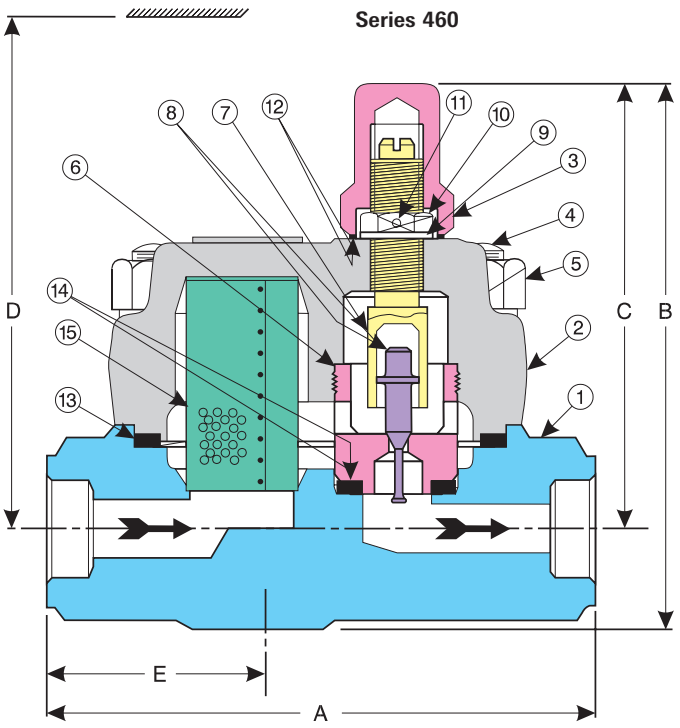
Operating Pressure Ranges vs. Condensate Capacity Near Steam Temperature

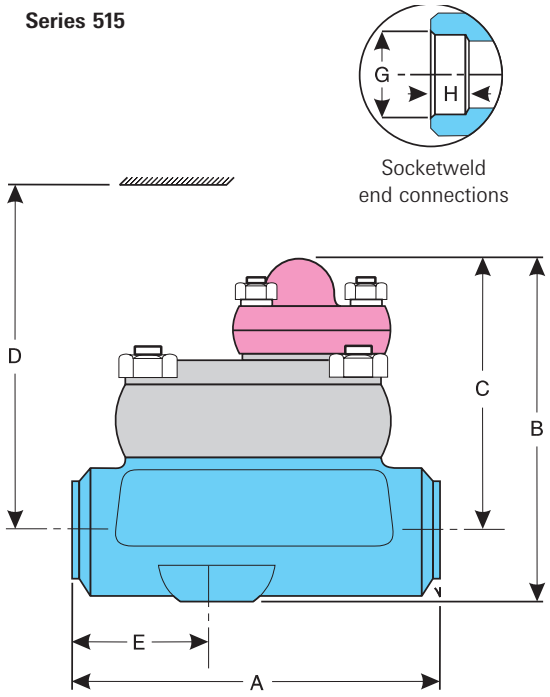
(For steam trap sizing)



Shell Pressure/Temperature Ratings







Materials and Specifications

Item	Part	460 (Class 600)		515 (Class 600)	
		Material	**Specification**	**Material**	**Specification**
1	Body	Forged Chrome Moly	ASME SA-182 F-11 .15 Max.C (Body)	Forged Chrome Moly	ASME SA-182 F-11 .15 Max C (Body)
2	Trap bonnet	Forged Chrome Moly	ASME SA-182 F-11 .15 Max.C (Body)	Forged Chrome Moly	ASME SA-182 F-11 .15 Max C (Body)
3	Cap	Stainless Steel	Series 400	Forged Chrome Moly	ASME SA-182 F-11
4	Studs	Steel	ASME SA-193 B-16	Steel	ASME SA- 193 B-16
5	Nut	Steel	ASTM A-194 GR.4	Steel	ASTM A-194 Gr.4
6	Seat	Stainless Steel	AISI Series 400 Heat Treated	Stainless Steel	AISI Series 400 Heat Treated
7*	Control Cylinder	Stainless Steel	AISI Series 400 Mod	Stainless Steel	17-4 PH Heat treated
8*	Valve	Stainless Steel	AISI Series 400 Heat Treated	Stainless Steel	AISI Series 400 Heat Treated
9*	Split Washer	Brass	-	-	-
10*	Lock Nut	Stainless Steel	Series 400	Stainless Steel	AISI Series 400
11*	Lock Pin	Brass	-	Monel	-
12*	Cap Gasket	Monel	-	Inconel	Spiral Wound Non -Asbestos
13*	Bonnet Gasket	Inconel	Spiral Wound Non-Asbestos	Inconel	Spiral Wound Non -Asbestos
14*	Seat Gasket	Inconel	Spiral Wound Non-Asbestos	Inconel	Spiral Wound Non -Asbesto
15*	Screen	Stainless Steel	AISI Series 300- 0.020" Perf.	Stainless Steel	AISI Series 300-0.020" Perf.

- Supplied in a renewal kit

Dimensions/Weights

Series	Trap size	Dimensions, in. (mm)							Weight lb. (kg)
	In. (DN)*	A	B	C	D	E*	G	H	
460	1/2 (15)	4 13/16 (122.2)	5 (127)	4 (101.6)	5 5/16 (134.9)	1 7/8 (47.6)	0.860 (21.8)	3/8 (10)	10 1/2 (4.76)
	3/4 (20)						1.070 (27.2)	1/2 (15)	
	1 (25)						1.335 (33.9)	1/2 (15)	
515	1/2 (15)	5 1/2 (139.7)	5 1/2 (139.7)	4 1/2 (114.3)	7 1/8 (181)	2 7/8 (73)	0.860 (21.8)	3/8 (10)	16 (7.26)
							1.070 (27.2)	1/2 (15)	
							1.335 (33.9)	1/2 (15)	

* 1/2" Socketweld blow-off optional