



YARWAY

Medium capacity traps for process & drip applications using the Unibody Plus in line replaceable capsule concept.

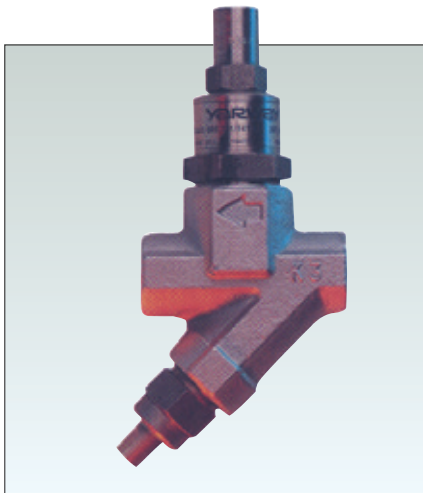
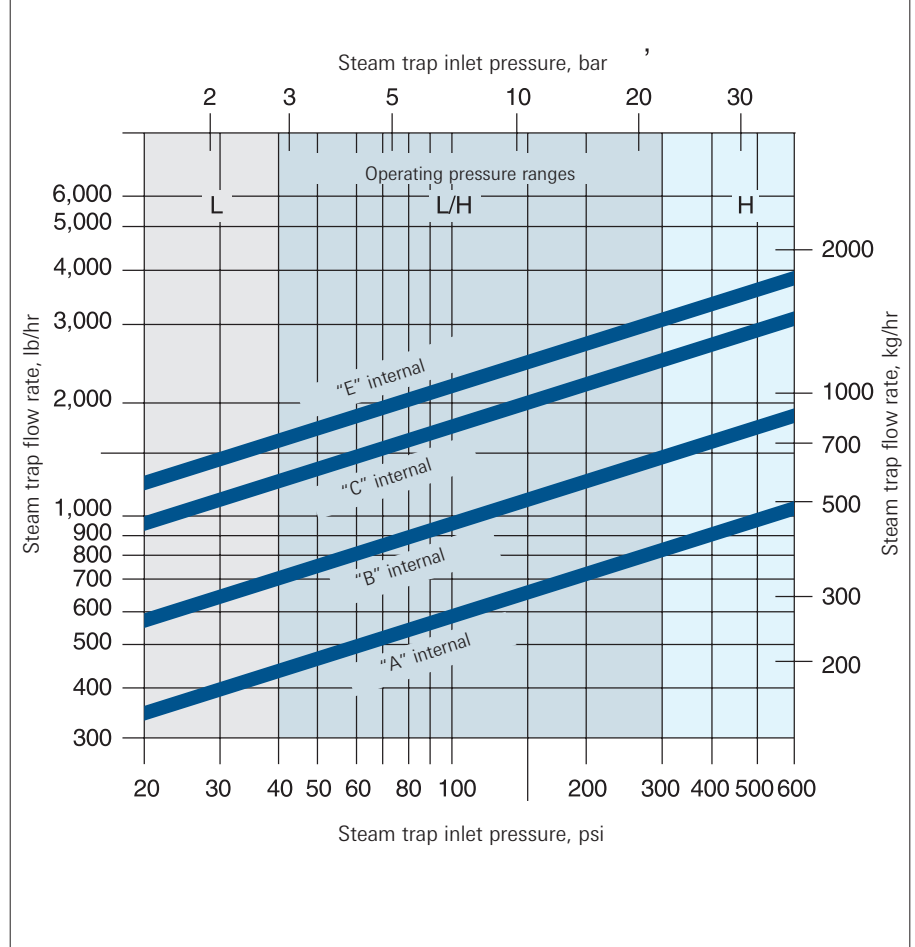
Operating principle

The Yarway Series 731/741 is a Piston Type Thermodynamic Steam Trap, designed to drain a range of condensate loads in high pressure applications such as steam main drips, high pressure steam tracing and Process Heaters.

Features

- Instant removal of condensates without sub-cooling.
- Quick discharge of air and non condensibles.
- Type 741 with Y strainer.
- Four different models available to suit various condensate capacities.
- Unibody capsule can be changed to suit different capacity or pressure requirements.
- Economic assembly and maintenance.
- Suitable for varying condensate loads.
- Can be installed horizontal or in vertical lines.
- Energy efficient, condensate seals the orifice.
- Disassembly unnecessary before welding.
- Unibody concept:
 - capsule renewable in line in few minutes
 - capsule interchangeable with other technologies without disturbing the piping.

Condensate Capacity Near Steam Temperature (For steam trap sizing)



Typical applications

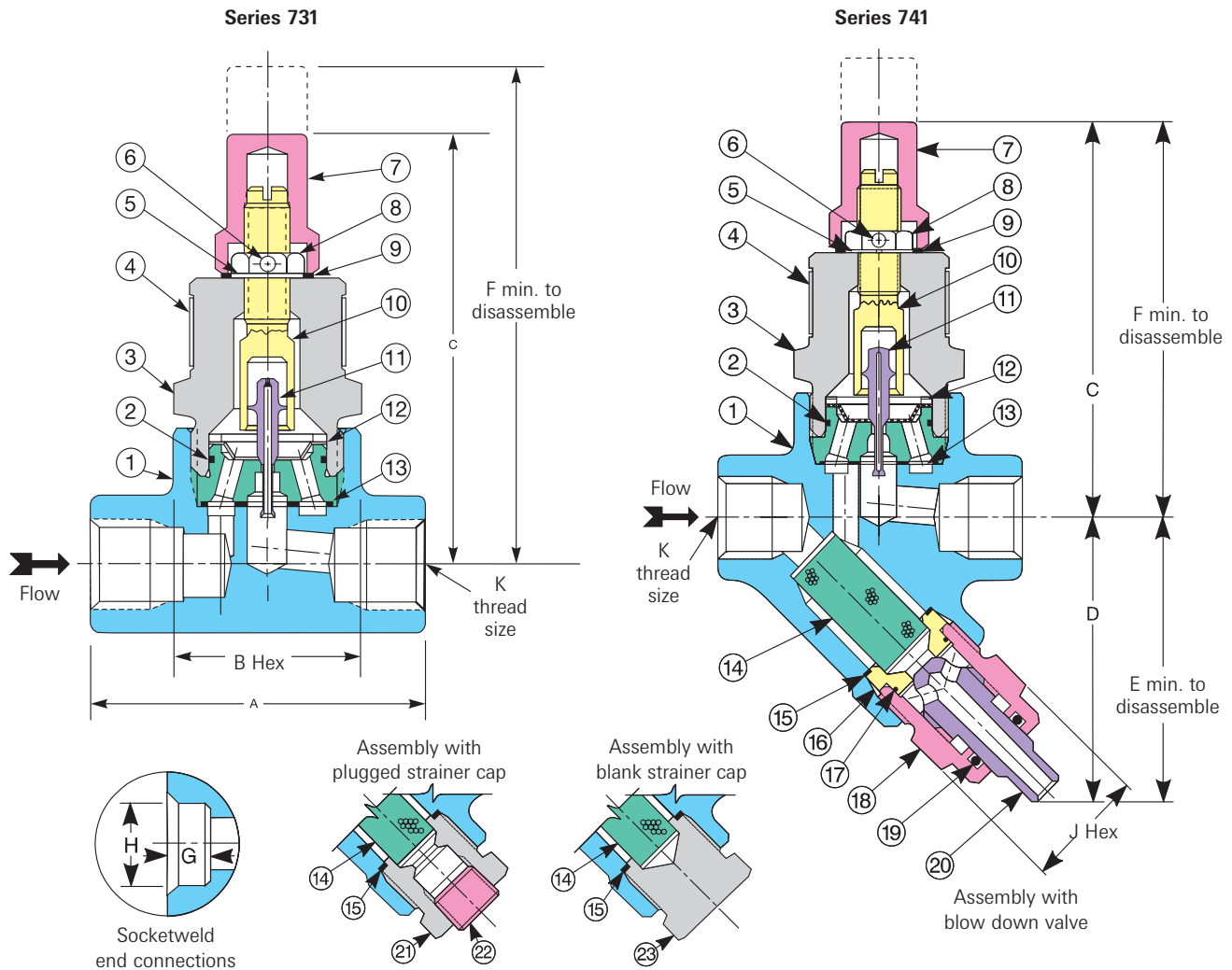
In all process plant where condensate has to be removed without sub-cooling, e.g. steam mains, steam collecting vessels, acid baths and alkaline solution baths fitted with syphons, autoclaves, heat-exchangers, galvanizing baths, calandring machines, draining auxiliary turbines, etc.

Technical data

Max. Working Pressure :	L 21 bar
	H 42 bar
Max. Temperature :	400°C
Max. Back Pressure :	L 40% / H 25%
Size range :	3/8"-1/2"-3/4"-1"
Connections :	BSP, NPT
	Socket Weld
731 Piston trap :	Straight body
741 Piston trap :	Body with Y-strainer

Thermodynamic Variable Orifice traps 3/8" -1/2" -3/4" -1"

Series 731-741



Parts/Materials

Item	Part	Material	Item	Part	Material
1	Body	ASME SA-182 Gr. F11 ⁽¹⁾	13	# Seat Gasket	Clad Non-asbestos
2	# Retaining Ring	17-7 PH Stainless Steel	14	Screen	Stainless Steel 0.020 perf.
3	# Bonnet	Stainless Steel	15	• Cap Gasket	Monel
4	# Nameplate	Stainless Steel	16	• Blowdown Seat	416 Stainless Steel
5	# Split Washer	Brass	17	• Retaining Ring	17-7 PH Stainless Steel
6	# Lock Pin	Brass	18	• Blowdown Body	416 Stainless Steel
7	# Cap Nut	Stainless Steel 400	19	• O-Ring	Silicone
8	# Lock Nut	Stainless Steel	20	• Blowdown Valve	416 Stainless Steel
9	# Cap Gasket	Monel	21	* Strainer Cap	416 Stainless Steel
10	# Control Cylinder	Stainless Steel	22	* Plug 3/8 NPT	Stainless Steel
11	# Valve	Stainless Steel	23	* Blank Strainer Cap	Stainless Steel
12	# Valve Seat	Stainless Steel Type 414HT			

⁽¹⁾ Low Carbon, 0.15 max. C

• Factory assembled blowdown valve renewal kit

Factory assembled renewal trap capsule

* Optional strainer caps

Dimensions/Weights

Trap Size In. (DN)*	Nominal Dimensions, in. (mm)										Weight lb. (kg)	
	A	B	C	D	E	F	G	H	J	K	Series 731	Series 741
1/2 (15)	3-5/32 (80)	1-1/2 (38)	4-1/16 (103)	2-3/8 (73)	3-15/16 (100)	4-13/16 (122)	.860 (21.8)	3/8 (9.5)	1-1/16 (27)	1/2"	2-1/4 (1.1)	2-3/4 (1.3)
3/4 (20)	3-35/64 (90)	1-1/2 (38)	4-3/8 (111)	3-1/4 (83)	4-5/16 (110)	5-1/8 (130)	1.070 (27.2)	1/2 (12.7)	1-3/16 (30)	3/4"	2-3/4 (1.3)	3-1/2 (1.6)
1 (25)	3-15/16 (100)	1-1/2 (38)	4-3/8 (111)	3-3/8 (86)	4-1/16 (113)	5-1/8 (130)	1.335 (33.9)	1/2 (12.7)	1-3/16 (30)	1"	3 (1.4)	4 (1.8)

*(DN) expresses metric equivalent