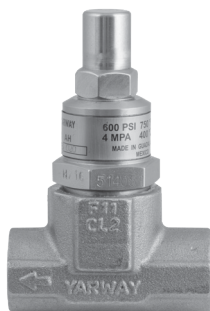




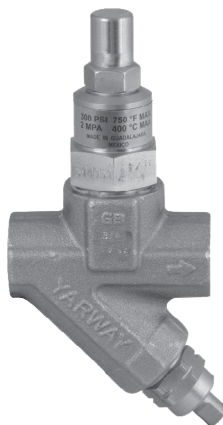
YARWAY REPAIRABLE DRIP AND TRACER STEAM TRAPS

SERIES 731/741

Thermodynamic steam traps that provide consistent performance in less than perfect conditions.



731



741

FEATURES

- Repairable
- Fail open design
- Self-draining (vertical mount)
- Hardened stainless steel valve body and seat
- Single moving part
- Freeze proof
- Withstand superheat
- Unaffected by water hammer
- Constant bleed
- Integral Strainer option

GENERAL APPLICATION

The Series 731/741 Unibody Plus variable orifice (piston) traps are designed for applications to 600 psi.

For applications up to 600 psi (41 bar) where constant bleed might be required such as rotating cylinders, submerged coils, and jacket kettles. These traps are fully renewable in-line.

TECHNICAL DATA

Technology: Thermodynamic
Size: 3/8", 1/2" (DN 10, 15)
Connections: Threaded, Socket Weld
Materials: Low carbon chrome moly steel and stainless steel trim

731L/741

Design: ANSI Class 600
Operating: 20-300 psi (1.4-21 bar)
750°F (400°C)
Back pressure: to 40% of inlet psia
Capacity: Up to 3100 lb/hr (1409 kg/h)

731H/741

Design: ANSI Class 600
Operating: 40-600 psi (21-41 bar)
750°F (400°C)
Back pressure: to 25% of inlet psia
Capacity: Up to 3900 lb/hr (1772 kg/h)

Applicable codes and standards

Pressure ratings per ANSI/FCI-69-1.
Performance testing per ANSI/ASME PTC-39.1.
End connections per ANSI B.20.1 for threaded ends, per ANSI B16.11 for socket-welding ends.

NOTE

For back pressure to 55% and/or operation to 10 psig, remove the split washer (Item 5)

YARWAY REPAIRABLE DRIP AND TRACER STEAM TRAPS

SERIES 731/741

SERIES 731/741 VARIABLE ORIFICE (PISTON)

The 'A' internals are designed for light load applications such as steam tracing and drip. The 'B', 'C' and 'E' internals are designed for the heavier process loads. The solid metal internals respond quickly to the presence of condensate, air and noncondensable gases. Two body styles and factory settings are available. Both the 741 and 731 bodies are straightway, accepting the same renewal capsules. The 741 body contains an integral wye strainer and blow-off valve.

The factory settings are 'L' for operating pressures to 300 psi and 'H' to 600 psi (41 bar).

HOW TO SPECIFY AND ORDER

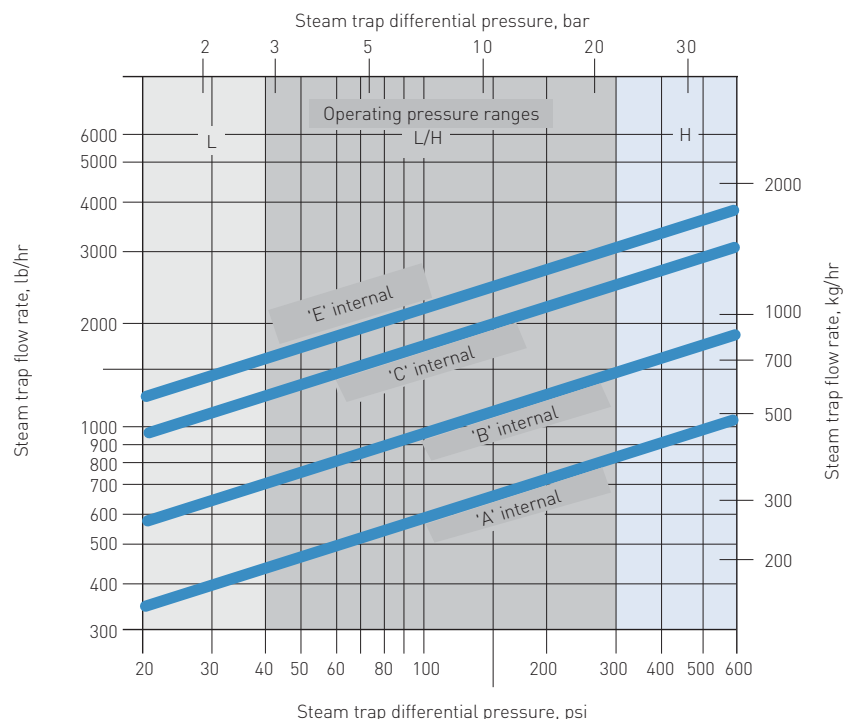
Typical specification - trap shall be piston valve, impulse type. The body shall be forged low carbon (0.15 max. C) chrome-moly steel with threaded (or socketwelding) ends. The internals shall be stainless steel contained in a factory set and assembled renewal capsule. Trap shall be in-line repairable piston valve, impulse type. Specify end connections to be threaded or socket-welded. Trap shall have replaceable capsule.

Ordering - specify trap size, series number, internals, settings and end connections.
Example: ¾" 741CL NPT.

HOW TO SIZE

1. Determine maximum temperature and pressure of application and verify with trap.
2. Determine operating conditions - Temperature, Inlet Pressure, Outlet Pressure, and Condensate Load (including factor of safety).
3. Determine the condensate load at the operating differential pressure is below what trap can handle.
4. Verify trap can handle back pressures. For back pressure to 55% and/or operation to 10 psig (0.69 bar), remove the split washer.

CONDENSATE CAPACITY NEAR STEAM TEMPERATURE (FOR STEAM TRAP SIZING)

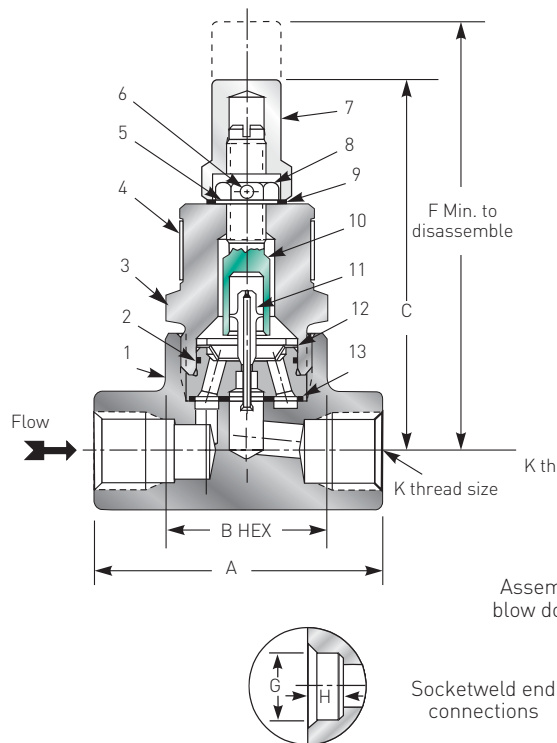


YARWAY REPAIRABLE DRIP AND TRACER STEAM TRAPS

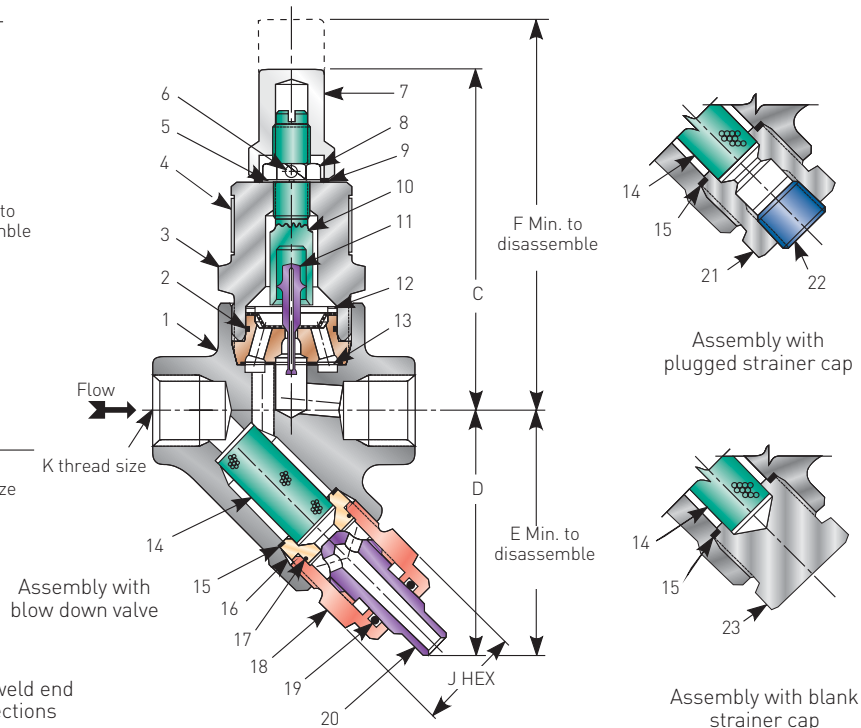
SERIES 731/741

SERIES 731/741 VARIABLE ORIFICE (PISTON)

SERIES 731



SERIES 741



PARTS AND MATERIALS

Item	Part	Material
1	Body	Chrome Moly
2 ^[1]	Retaining ring	Stainless steel
3 ^[1]	Bonnet	Stainless steel
4 ^[1]	Nameplate	Stainless steel
5 ^[1]	Split washer	Brass
6 ^[1]	Lock pin	Brass
7 ^[1]	Cap nut	Stainless steel
8 ^[1]	Lock nut	Stainless steel
9 ^[1]	Cap gasket	Monel®
10 ^[1]	Control cylinder	Stainless steel
11 ^[1]	Valve	Stainless steel
12 ^[1]	Valve seat	Stainless steel

Item	Part	Material
13 ^[1]	Seat gasket	Clad non-asbestos
14	Screen	Stainless steel
15 ^[2]	Cap gasket	Monel®
16 ^[2]	Blowdown seat	Stainless steel
17 ^[2]	Retaining ring	Stainless steel
18 ^[2]	Blowdown body	Stainless steel
19 ^[2]	O-ring	Silicone
20 ^[2]	Blowdown valve	Stainless steel
21 ^[3]	Strainer cap	Stainless steel
22 ^[3]	Plug 3/8 NPT	Carbon steel
23 ^[3]	Blank strainer cap	Stainless steel

NOTES

1. Factory assembled renewal trap capsule.
2. Factory assembled blowdown valve renewal kit.
3. Optional strainer caps.

DIMENSIONS AND 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)	0.860 (21.8)	3/8 (9.5)	1 1/16 (27)	1/2 NPT	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 NPT	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 NPT	3 (1.4)	4 (1.8)

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