



## YARWAY

## Special High Capacity Process Straps.

### Features

- Designed for heavy condensate loads
- Good start-up drainage of cold condensate
- Suited to operate without adjustment
- Compact design
- Quick discharge of air and non-condensibles
- Only one moving part
- Long-life
- Corrosion resistant
- Unaffected by water hammer
- Trap trim is replaceable

### Typical applications

In all process industries with large fluctuating steam loads where immediate removal of condensate is required, i.e. large shell and tube heat exchangers, batch stills, reboilers, brew kettles, etc.

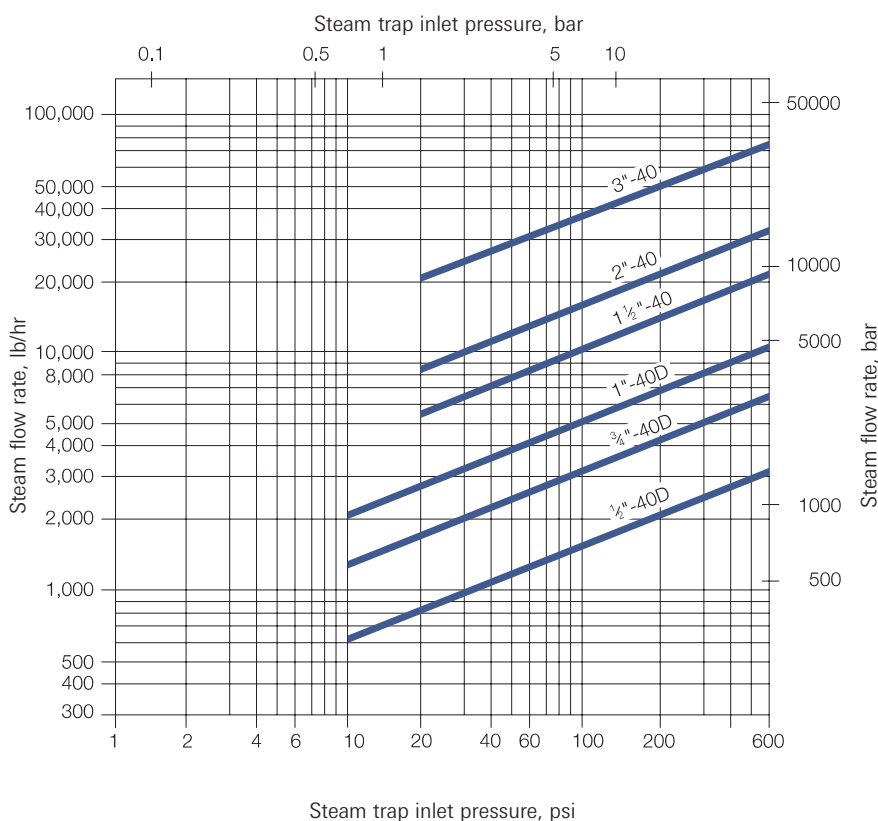
### Connections

NPT, BSP, Socket Weld Flanged to DIN, ANSI, BS, etc.

### Operating Principle

The operation of the Yarway Series 40/40D impulse steam trap is based upon two orifices in series, set in a single lever type disc. The condensate pressure acts upon the bottom of the disc, opening the conical valve to permit trap discharge. When steam or condensate close to steam temperature arrives at the valve, flash steam is produced which chokes the secondary orifice and results in closure of the disc. Trap discharge is close to saturation temperature.

Condensate Capacity (for steam trap sizing)



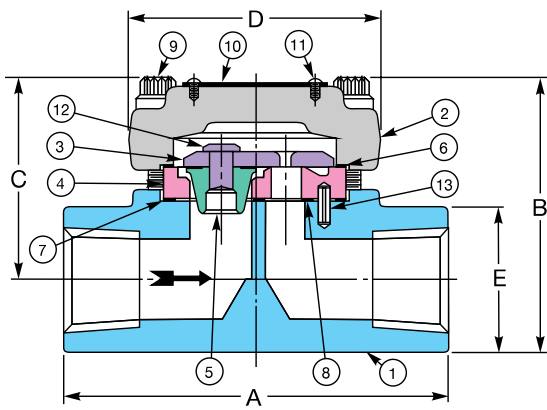
### Ratings

Series	Size in (DN)	Press. Range psi (bar)	Max.Temp. F (C)	Back Pressure
40D	1/2 and 3/4 (15 and 20)	2 to 600 (0,14 to 42)	750 (400)	•
40D	1 (25)	5 to 600 (0,34 to 42)	750 (400)	•
40	1-1/2, 2, 3 (40,50,80)	20 to 600 (1,38 to 42)	750 (400)	•

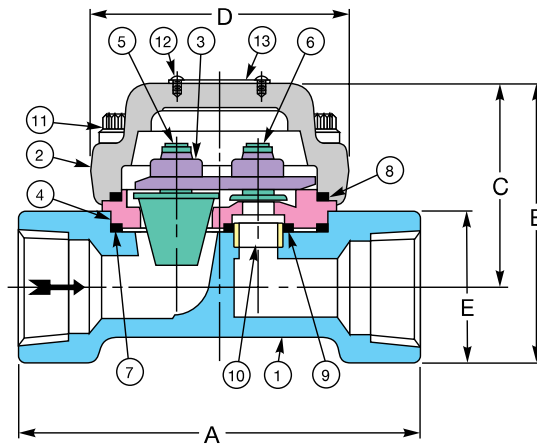
\* Operates against back pressure at trap outlet up to 40% of pressure at trap inlet. Based on absolute pressure when trap is discharging.

# Thermodynamic Lever Steam traps 1/2" -3/4"-1" -1 1/2"-2"-3"

Series 40-40D



**Series 40D**



**Series 40**

## Dimensions/Weights

Trap Series	Size* (DN)	Dimensions, in. (mm) in. (mm)					Weight lb. (kg)
		A	B	C	D	E	
40D	1/2 (15)	3-1/8 (79)	2-3/16 (56)	1-9/16 (40)	2 (51)	1-3/16 hex. (48)	2 (0.91)
	3/4 (20)	4 (102)	2-13/16 (71)	2-1/16 (52)	2-5/8 (67)	1-1/2 hex. (38)	3-3/4 (1.71)
	1 (25)	5 (127)	3-9/16 (90)	2-11/16 (68)	3-1/2 (89)	1-3/4 hex. (44)	8 (3.6)
40	1-1/2 (40)	7 (178)	4-7/8 (124)	3-9/16 (90)	4-3/8 (111)	2-5/8 diam. (67)	14 (6.4)
	2 (50)	7-5/8 (194)	5-7/8 (149)	4-5/16 (110)	5-1/8 (130)	3-1/8 diam. (79)	22 (10.0)
	3 (80)	10-5/8 (270)	8-3/16 (213)	6-1/16 (154)	7-3/8 (187)	4-5/8 diam. (117)	65 (29.5)

## Materials and Specifications Series 40D

Item	Part	Material
1	Body	Forged Cr-Moly Steel ASTM A 182 F22
2*	Bonnet	Forged Cr-Moly Steel ASTM A 182 F11
3*	Lever Valve	Stainless Steel Type 410, Heat treated
4*	Seat	Stainless Steel Type 410, Heat treated
5*	Inlet Valve	Stainless Steel Type 410, Heat treated
6*	Bonnet Gasket	Monel
7*	Body Gasket	Monel
8*	Outlet Port Gasket (1" size only)	Monel
9	Cap screw	Alloy Steel Heat Treated
10	Name plate	Stainless Steel
11	Drive Screw	Stainless Steel
12*	Inlet Valve Rivet	Stainless Steel Type 410
13	Spring Pin	Stainless Steel Type 303

## Materials and Specifications Series 40

Item	Part	Material
1	Body	Cast Cr-Moly Steel ASTM A 182-F 22 (size 1-1/2" and 2") A 217-WC9 (size 3")
2	Bonnet	Cast Cr-Moly Steel ASTM A 182-F 11 (size 1-1/2" and 2") A 217-WC6 (size 3")
3*	Lever Valve	Stainless Steel Type 410
4*	Seat	Stainless Steel Type 410, Heat treated
5*	Inlet Valve	Stainless Steel Type 410, Heat treated
6*	Outlet Valve	Stainless Steel Type 410, Heat treated
7*	Body Gasket	Stainless Steel Spiral Wound (non-Abestos)
8*	Bonnet Gasket	Stainless Steel Spiral Wound (non-Abestos)
9*	Outlet Port Gasket	Stainless Steel Spiral Wound (non-Abestos)
10	Outlet Port Bushing	Stainless Steel Type 304
11	Cap Screw	Alloy Steel Heat Treated
12	Drive Screw	Stainless Steel
13	Name plate	Stainless Steel

## Notes

\* Denotes available repair kit