



YARWAY DISC STEAM TRAPS

SERIES 129YB, 129Y-III/YF, 129YH

129YB - High performance disc type steam trap with integrated bypass mechanism

129Y-III/YF - Disc type steam trap with excellent performance and optimal drain discharge

129YH - Versatile disc type steam trap for drain discharge



FEATURES

Series 129YB

- Rapid equipment startup with built in bypass system.
- Stainless steel body, for a long life expectancy and high level of reliability.
- Simplified maintenance through simple design, providing high cost-performance.

Series 129Y-III/YF

- Versatile disc type design.
- Stainless steel body for a longer life and greater reliability.

Series 129YH

- Wide pressure range (0.03 MPa/4.35 psi to 5.0M Pa/725 psi).
- Stainless steel body for a longer life and greater of reliability.
- Weather cap offered as standard equipment for energy conservation.

GENERAL APPLICATION

Cleaning and food equipment, steam piping, headers, tracing, high pressure steam main drip.

TECHNICAL DATA

Size:	DN 10-25 (NPS 3/8 - 1)
Temperature:	Up to 450 °C (842 °F)
Connection:	Socket weld (ASME, JIS) Screwed end (ISO 7-1) Flanged (ASME, JIS, JPE)
Pressure:	Up to 5 MPa (725 psi)
Back pressure:	Up to 80%
Materials:	Stainless steel

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APPLICATION GUIDE

BODY MATERIAL

Series	Body material
129YB	Stainless steel (Heat treated)
129Y-III/YF	Stainless steel (Heat treated)
129YH	Stainless steel (Heat treated)

OPTIONS

Series	Description
129Y-III/YF	Stainless Steel Flange (SUS304) Weather cap for energy conservation

MAXIMUM OPERATING PRESSURE

Series	Maximum operating pressure
129YB	1.0 MPa (145 psi)
129Y-III/YF	2.8 MPa (406 psi)
129YH	5.0 MPa (725 psi)

MAXIMUM BACK PRESSURE LIMIT

Series	Maximum back pressure
129YB	50%
129Y-III/YF	70% (DN 10, 15), 50% (DN 20, 25)
129YH	80%

MAXIMUM OPERATING TEMPERATURE

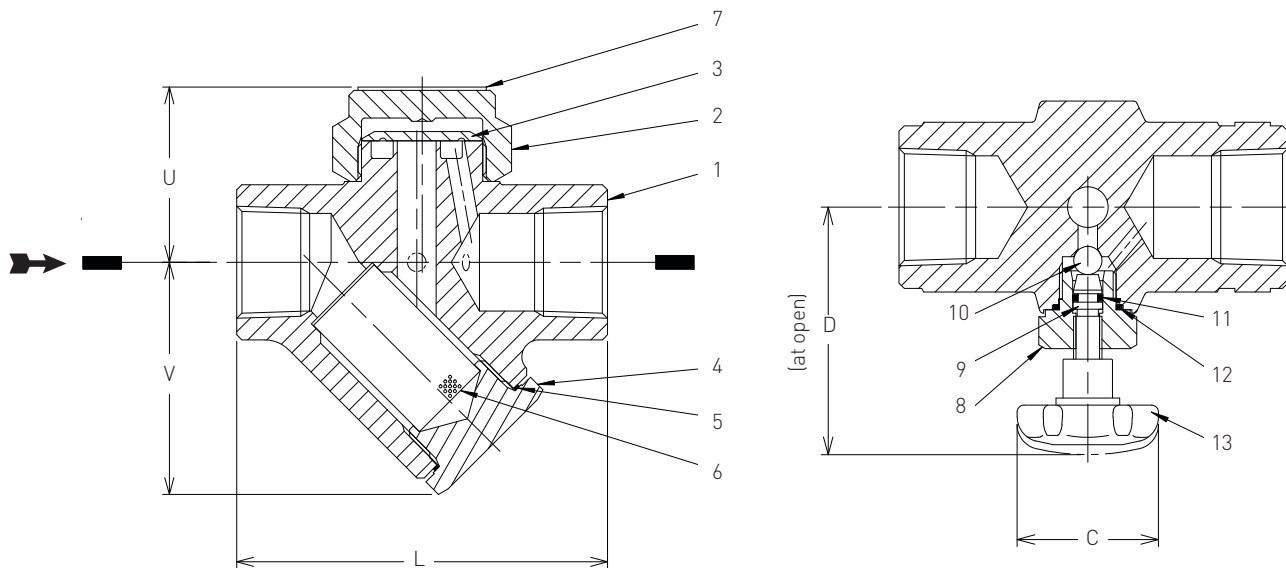
Series	Maximum operating temperature
129YB	185 °C (365 °F)
129Y-III/YF	350 °C (662 °F)
129YH	450 °C (842 °F)

Please contact your local sales representative for other specifications.

YARWAY DISC STEAM TRAPS

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SERIES 129YB



PARTS LIST

No.	Part	Material
1	Body	Stainless steel (heat treated)
2	Bonnet	Stainless steel
3	Disc	Stainless steel (heat treated)
4	Screen cap	Carbon steel
5	Gasket	Stainless steel
6	Screen	Stainless steel (Ø0.8 perforated)
7	Name plate	Stainless steel
8*	Valve bonnet	Stainless steel
9*	Valve stem	Stainless steel
10*	Ball	Stainless steel (heat treated)
11*	O-ring	FKM
12*	O-ring	FKM
13*	Handle	Engineering plastic

* Sold as a bypass valve part set.

DIMENSIONS (mm)

Size	DN	(NPS)	U	V	C	D	L	Weight (kg)
Screwed end¹								
15		(1/2)	52	70	40	74	110	2.0
20		(3/4)	52	70	40	74	110	2.0
25		(1)	52	70	40	74	110	2.0
Flanged²								
15		(1/2)	52	70	40	74	210	3.3
20		(3/4)	52	70	40	74	220	3.5
25		(1)	52	70	40	74	230	4.4

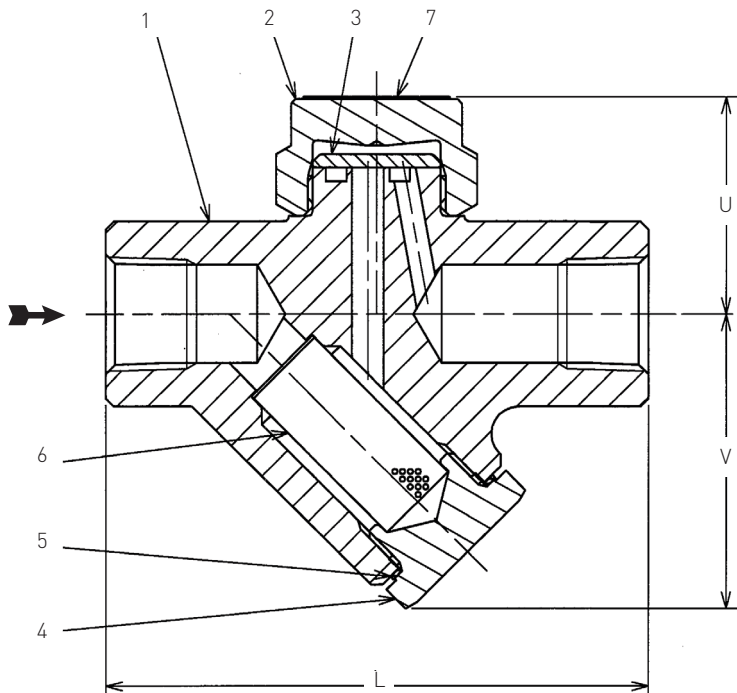
NOTES

1. Screwed end type threaded connection
2. Flange type JIS10K, consult factory for other configurations

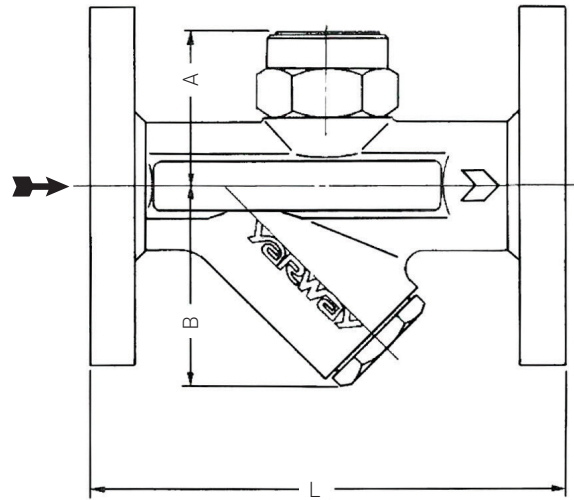
YARWAY DISC STEAM TRAPS

SERIES 129YB, 129Y-III/YF, 129YH

SERIES 129Y-III/YF



SERIES 129YF



PARTS LIST

No.	Part	Material
1	Body	Stainless steel (heat treated)
2	Bonnet	Stainless steel
3	Disc	Stainless steel (heat treated)
4	Screen cap	Carbon steel
5	Gasket	Stainless steel
6	Screen	Stainless steel
7	Name plate	Stainless steel

DIMENSIONS (mm) 129Y-III

Size	DN	(NPS)	U	V	L	Weight (kg)
10	10	[3/8]	41	55	100	1.0
15	15	[1/2]	41	55	100	1.0
20	20	[3/4]	48	70	100	1.4
25	25	[1]	52	70	110	1.9

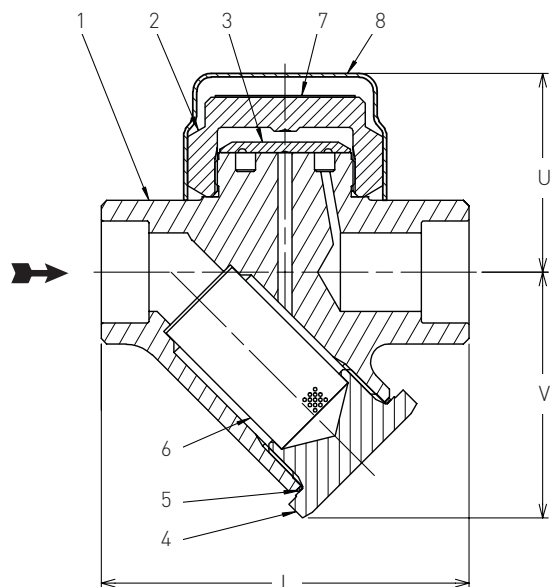
DIMENSIONS (mm) 129YF

Size	DN	(NPS)	U	V	L	Weight (kg)
15	15	[1/2]	41	55	124	2.2
20	20	[3/4]	48	70	128	2.8
25	25	[1]	48	70	100	4.1

YARWAY DISC STEAM TRAPS

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SERIES 129YH



PARTS LIST

No.	Part	Material
1	Body	Stainless steel (main components are heat-treated)
2	Bonnet	Stainless steel
3	Disc	Stainless steel (heat-treated)
4	Screen cap	Stainless steel
5	Gasket	Stainless steel
6	Screen	Stainless steel
7	Name plate	Stainless steel
8	Weather cap	Stainless steel

DIMENSIONS (mm)

Size					Weight
DN	(NPS)	U	V	L	(kg)
15	(1/2)	54	70	100	1.4
20	(3/4)	54	70	100	1.4
25	(1)	58	70	110	1.9

129Y-III

FACE TO FACE FOR FLANGED TYPE (mm)

Size		JIS10K, 16K, 20K
DN	(NPS)	ASME Class 150, 300
		JP1150, 300
15	(1/2)	210
20	(3/4)	220
25	(1)	230

129YF

FACE TO FACE FOR FLANGED TYPE (mm)

Size		JIS10K
DN	(NPS)	
15	(1/2)	124
20	(3/4)	128
25	(1)	138

NOTE

A short pipe enters between the trap and flange.

NOTE

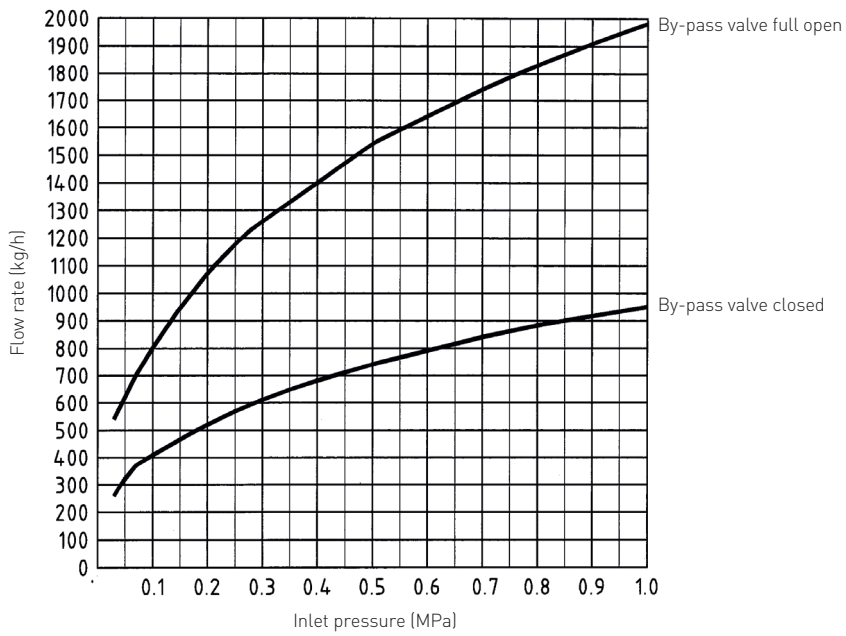
A 129YF model has a structure integrated with a JIS 10K-FF flange.

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CONDENSATE CAPACITY NEAR STEAM TEMPERATURE

SERIES 129YB



NOTE

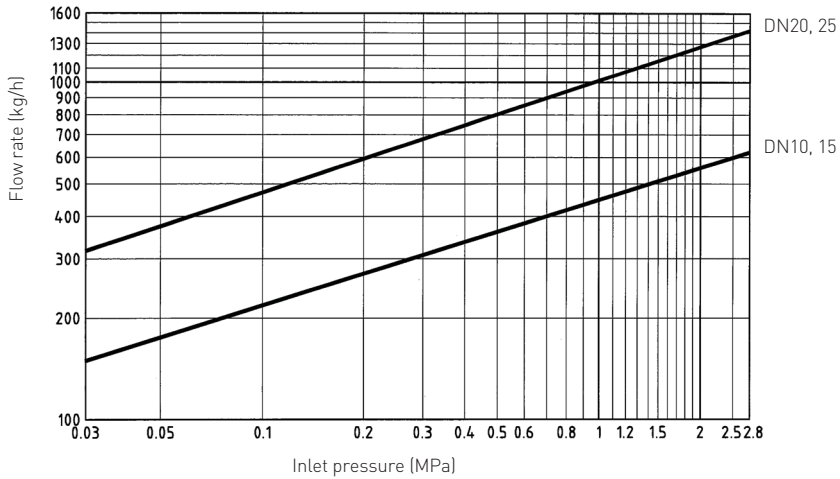
The lines indicate the condensate discharge at a temperature 17 °C (62 °F) lower than a saturation temperature.

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CONDENSATE CAPACITY NEAR STEAM TEMPERATURE

SERIES 129Y-III/YF

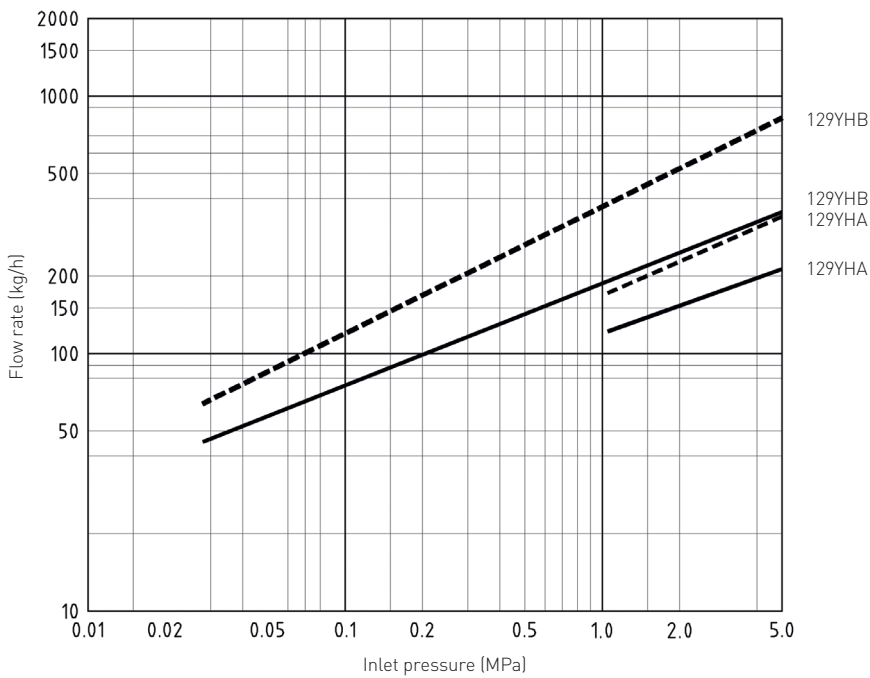


NOTE

The lines indicate the condensate discharge at a temperature 17 °C (62 °F) lower than a saturation temperature.

CONDENSATE CAPACITY NEAR STEAM TEMPERATURE

SERIES 129YH



NOTE

The solid lines indicate the condensate discharge at a temperature near a saturation temperature. The dotted lines indicate the condensate discharge at start-up.

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