

INVERTED BUCKET STEAM TRAPS IB30 (1/2" – 1"; DN 15 – DN 25)

DESCRIPTION

The IB30 series inverted bucket steam traps are recommended for applications where the most important requirements are overall operating efficiency and long, trouble-free service life. They operate intermittently, either wide open or tightly closed and are, therefore, best suited for medium and high steam pressure applications.

MAIN FEATURES

Intermittent discharge.
Discharges condensate at steam temperature.
Unaffected by water hammer and vibrations.
Easy to maintain.

OPTIONS: Anti-freeze device.

USE: Saturated and superheated steam.

AVAILABLE MODELS:

IB30S – carbon steel body, stainless steel cover.
IB30SS – completely in stainless steel.

SIZES: 1/2" to 1"; DN 15 to DN 25.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld (SW) ASME 16.11.
Butt weld (BW) ASME B16.25 on request.

INSTALLATION: Horizontal installation.
See IMI – Installation and maintenance instructions.

MAX. ΔP: IB30S-4 – 4 bar
IB30S-8 – 8 bar
IB30S-12 – 12 bar
Remark: the same figures are valid for the IB30SS.



IB30S



IB30SS

CE MARKING – GROUP 2 (PED – European Directive)

PN 40	Category
1/2" to 1" – DN 15 to 25	SEP

FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)										
		1	2	3	4	5	6	7	8	10	11	12
IB30S-4	1/2" to 1" – DN 15 to 25	280	390	470	530	–	–	–	–	–	–	–
IB30S-8	1/2" to 1" – DN 15 to 25	190	260	320	360	400	430	460	500	–	–	–
IB30S-12	1/2" to 1" – DN 15 to 25	160	220	260	290	320	360	370	400	440	480	490

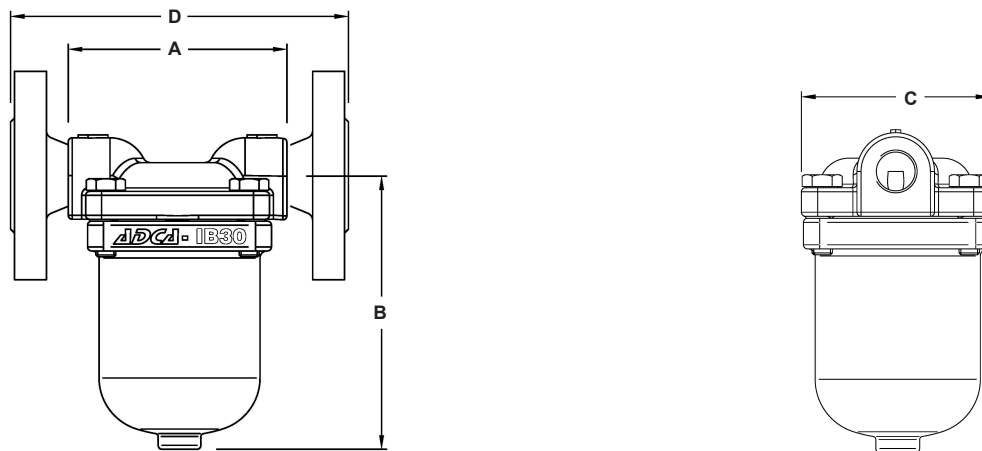
Remark: the same figures are valid for the IB30SS.

BODY LIMITING CONDITIONS					
IB30S		IB30SS			RELATED TEMP.
FLANGED CLASS 150 **	FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	FLANGED PN 40 *	
ALLOW. PRESS.	ALLOW. PRESS.	ALLOW. PRESS.	ALLOW. PRESS.	ALLOW. PRESS.	
17,7 bar	37,1 bar	13,3 bar	34,4 bar	37,9 bar	100 °C
14 bar	33,3 bar	11,1 bar	28,8 bar	31,8 bar	200 °C
8,4 bar	25,7 bar	8,4 bar	24,1 bar	26,4 bar	350 °C
6,5 bar	23,8 bar	6,5 bar	23,1 bar	25,7 bar	400 °C

PMO – Maximum operating pressure: 27 bar; TMO – Maximum operating temperature: 380 °C.

* According to EN 1092-1:2018; ** According to EN 1759-1:2004.

Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded, SW and BW versions.



DIMENSIONS (mm)										
THREADED / SW				PN 40		CLASS 150		CLASS 300		
SIZE	A	B	C	WEIGHT (kg)	D	WEIGHT (kg)	D	WEIGHT (kg)	D	WEIGHT (kg)
1/2" – DN 15	110	125	92	2,3	170	3,8	170	3,3	170	4,1
3/4" – DN 20	110	125	92	2,3	170	4,3	170	3,7	170	5,3
1" – DN 25	110 / 160 *	125	92	2,3	180	4,9	180	4,5	180	6,5

* IB30SS is supplied with welded threaded socket.

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (IB30S)	P250GH / 1.0460
	Body (IB30SS)	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Graphite
4	* Seat	AISI 410 / 1.4006
5	* Valve	AISI 410 / 1.4006
6	* Lever	AISI 304 / 1.4301
7	* Bucket	AISI 304 / 1.4301
8	Inlet tube	AISI 304 / 1.4301
9	Bolts	Stainless steel A2-70
10	** Anti-freeze device	AISI 304 / 1.4301

* Available spare parts; ** Optional.

