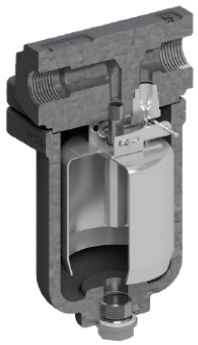
PROTEK
Processteknik GH AB

INVERTED BUCKET STEAM TRAPS
IB36S

DESCRIPTION

The IB36S is a series of robust and versatile inverted bucket steam traps manufactured in carbon steel.
These steam traps operate intermittently, and are suitable for use with low to high pressure saturated or superheated steam.
Typical applications include drip points, steam tracing lines, dryers, chemical and laundry equipment.



MAIN FEATURES

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

OPTIONS: BDV – Blowdown valve.
AFZ – Anti-freeze device.

USE: Saturated and superheated steam.

AVAILABLE MODELS: IB36S-5, 10, 15, 30 and 40 – carbon steel.

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

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN1092-1 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.

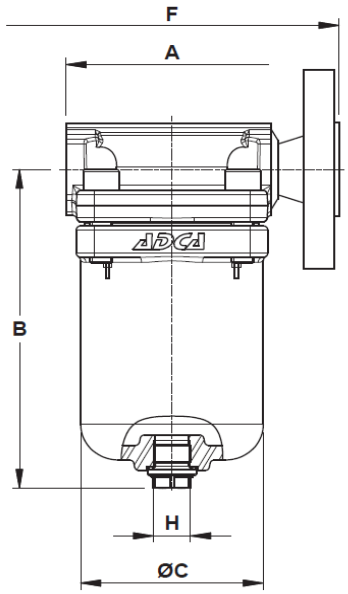
MAX. ΔP: IB36S-5 – 5 bar
IB36S-10 – 10 bar
IB36S-15 – 15 bar
IB36S-30 – 30 bar
IB36S-40 – 40 bar

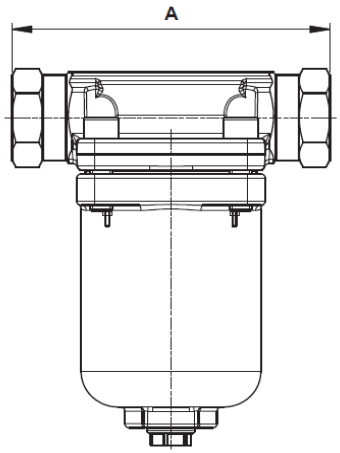
CE MARKING – GROUP 2 (PED – European Directive)	
PN 40	**Category**
1/2" to 1" – DN 15 to 25	SEP

BODY LIMITING CONDITIONS			
FLANGED CLASS 300 / THREADED / BW / SW **	**FLANGED PN 40 ***	**FLANGED CLASS 150 ****	**RELAT. TEMP.**
ALLOWABLE PRESSURE	**ALLOW. PRESS.**	**ALLOW. PRESS.**	
50 bar	40 bar	19,3 bar	50 ºC
46,3 bar	34,2 bar	17,7 bar	100 ºC
43,9 bar	31 bar ***	14 bar ***	200 ºC
41,6 bar ***	28, 3 bar	12,1 bar	250 ºC
38,9 bar	25,7 bar	10,2 bar	300 ºC
34,6 bar	22,8 bar	6,5 bar	400 ºC

* According to EN 1092-1:2018.
** According to EN 1759-1:2004.
*** PMO – Maximum operating pressure.
TMO – Maximum operating temperature: 400 ºC.
Body limiting conditions Class 300 or below, depending on the type of connection adopted. Rating Class 300 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)															
MODEL	**SIZE**	**DIFFERENTIAL PRESSURE (bar)**													
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**15**	**20**	**30**	**40**
IB36S-5	**1/2" to 1" – DN 15 to 25**	290	400	495	550	610	–	–	–	–	–	–	–	–	–
IB36S-10	**1/2" to 1" – DN 15 to 25**	225	300	350	395	420	470	490	520	540	560	–	–	–	–
IB36S-15	**1/2" to 1" – DN 15 to 25**	190	255	295	330	370	390	410	445	465	490	520	–	–	–
IB36S-30	**1/2" to 1" – DN 15 to 25**	130	180	210	225	265	285	300	315	340	355	415	450	480	–
IB36S-40	**1/2" to 1" – DN 15 to 25**	90	120	135	155	165	185	205	220	230	245	290	320	370	400





Only for 1" threaded version (with welded coupling)

DIMENSIONS (mm)

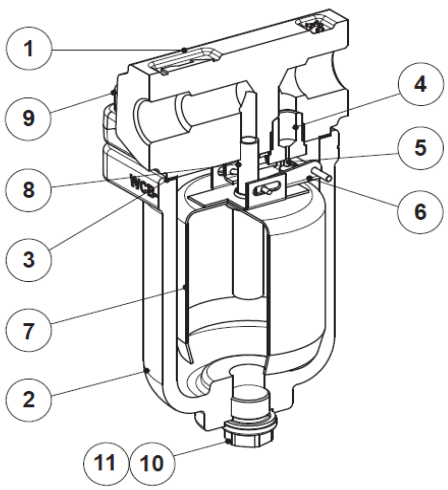
THREADED						SW		PN 40		CLASS 150		CLASS 300	
SIZE	A	B	ØC	H *	WEIGHT (kg)	A	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)
1/2" – DN 15	95	153	82	3/8"	3,9	95	3,9	150	5,4	150	4,8	150	5,3
3/4" – DN 20	95	153	82	3/8"	3,8	95	3,8	150	5,9	150	5,2	150	6,2
1" – DN 25	145 **	153	82	3/8"	4	95	3,8	160	6,3	160	5,7	160	6,8

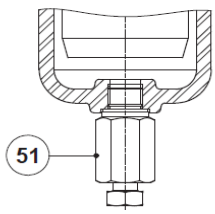
* As standard, in versions with EN flanges or female Rp threads, this connection is female threaded ISO 7 Rp. In versions with ASME flanges, female NPT threads or SW, this connection is female threaded NPT.
** With welded coupling.

MATERIALS

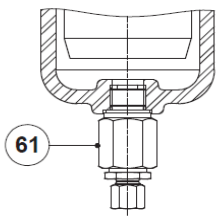
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	A216 WCB / 1.0619
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 440C / 1.4125
5	* Valve	AISI 420 / 1.4021
6	* Lever	AISI 304 / 1.4301
7	* Bucket	AISI 304 / 1.4301
8	Inlet tube	AISI 316L / 1.4404
9	Bolts	ASTM A193 Gr. B7
10	Plug	AISI 316 / 1.4401
11	** Washer	Copper; AISI 304 / 1.4301
51	Blowdown valve	AISI 303 / 1.4305; AISI 316L / 1.4404
61	Anti-freeze device	AISI 303 / 1.4305; AISI 316L / 1.4404

* Available spare parts; ** Not applicable in NPT version.





BDV - Blowdown valve (Manual)



AFZ - Anti-freeze device (Automatic)