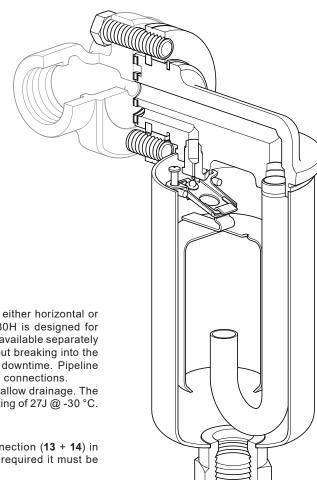
Swivel connectors and traps

TI-P113-01 CMGT Issue 10



UIB30 and UIB30H **Sealed Inverted Bucket Steam Traps** (for use with Pipeline Connectors)



Description

The UIB30 and UIB30H are sealed inverted bucket steam traps for either horizontal or vertical installation (with the cover hanging downwards). The UIB30H is designed for higher capacities. When installed with a suitable pipeline connector (available separately from Spirax Sarco) the UIB can easily and simply be removed without breaking into the pipeline, thus speeding up trap replacement with minimal system downtime. Pipeline connectors are available with screwed, socket weld and flanged end connections. The cover is also available with the option of a threaded base port to allow drainage. The body and cover meet typical industry standards including Charpy testing of 27J @ -30 °C.

Optional extras

The cover (1) is also available with a threaded drain plug and connection (13 + 14) in 3/8" NPT, 1/2" NPT or 1/2" BSP to allow for drainage. If this option is required it must be specified at the time of order placement.

Standards

This product fully complies with the requirements of the Pressure Equipment Directive (PED).

Certification

This product is available with certification to EN 10204 3.1.

Note: All certification/inspection requirements must be stated at the time of order placement.

Pipeline connector options

The UIB can be fitted to a variety of pipeline connectors including:

PC10HP	Straight connector	ASME 600	(TI-P128-10)	
PC20	+ 'Y' type strainer	ASME 300	(TI-P128-15)	See the relevant sheet as liste
PC3_	+ 1 piston isolation valve	ASME 600	(TI-P128-02)	connections ava
PC4_	+ 2 piston isolation valves	ASME 600	(TI-P128-03)	

nt Technical Information ed for details of the ailable for each pipeline

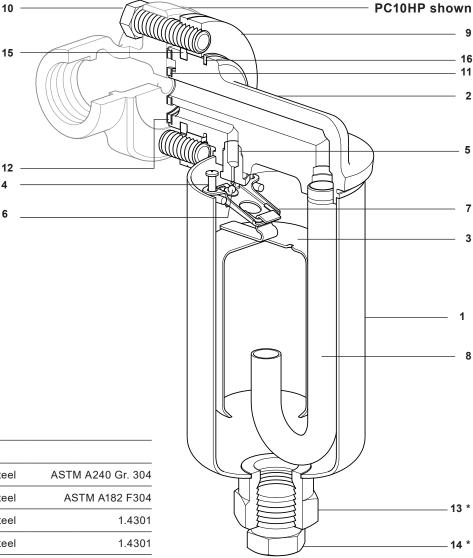
First for Steam Solutions

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EXPERTISE | SOLUTIONS | SUSTAINABILITY

Swivel connectors and traps

Materials



No.	Part	Material	
1	Cover	Stainless steel A	STM A240 Gr. 304
2	Body	Stainless steel	ASTM A182 F304
3	Bucket	Stainless steel	1.4301
4	Pivot pin	Stainless steel	1.4301
5	Valve seat	Stainless steel	440B
6	Valve	Stainless steel	440B
7	Valve lever	Stainless steel	1.4301
8	Internal tube	Stainless steel	1.4306
9	Flange	Alloy steel - ELNP	ASTM A193 B7
10	Connector screw	Steel	ASTM A193 B7
11	Inlet gasket	Graphite/Stainless stee	el AISI 204 etrin
12	Outlet gasket	laminate	' AISI 304 strip
13 *	Drain connection	Stainless steel ASTM	A182 F304 / F304L
14 *	Drain plug	Stainless steel - ELNP	ASTM A479 316
15	Split ring	Stainless steel	ASTM A240 304

Carbon spring steel

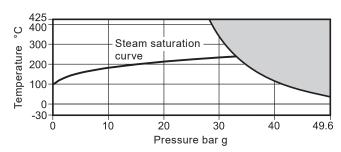
Crescent ring

* Note: Items 13 and 14 are optional extras that, if required, must be specified at the time of order placement.

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Swivel connectors and traps

Pressure/temperature limits (ISO 6552)



The product **must not** be used in this region.

Note: The model of pipeline connector and connections selected will dictate the maximum operating limits of the complete assembly. Reference the specific pipeline connector Technical Information sheet as detailed in 'Pipeline connector options'.

Body design conditions			ASM	1E 300
PMA Maximum allowable pressure			49.6 bar g @	38 °C
TMA Maximum allowable temperature	425 °C @ 28	3 bar g		
Minimum ambient temperature				-30 °C
PMO Maximum operating pressure for saturated s	32	2 bar g		
TMO Maximum operating temperature	425 °C @ 28	3 bar g		
Minimum operating temperature Note: For lower operating temperatures consult Spi	rax Sarco			0 °C
	30.0 bar	UIB30/4	UIB30H/5	
	20.0 bar	UIB30/5	UIB30H/6	
	12.0 bar	UIB30/6	UIB30H/7	
	8.5 bar	UIB30/7	UIB30H/8	
$_{\Delta}$ PMX Maximum differential pressure	5.0 bar		UIB3	30H/10
	4.0 bar	UIB30/8		
	2.5 bar	UIB30/10		
	2.0 bar		UIB30H/12	
	1.5 bar	UIB30/12		
Designed for a maximum cold hydraulic test pressur	re of		75	5 bar g

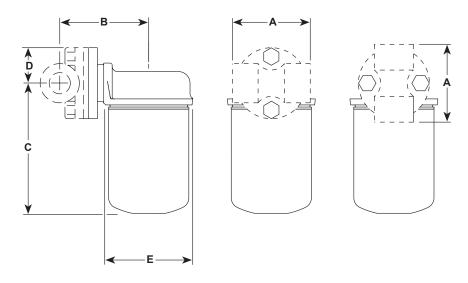
TI-P113-01 CMGT Issue 10 spirax /sarco

Swivel connectors and traps

Dimensions/weights (approximate) in mm and kg

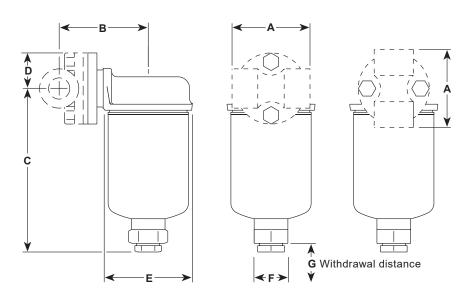
UIB30 and UIB30H + PC10HP

	Α	В	(D	E	Weight			
Size			UIB30	UIB30H			UIB30	UIB30 + PC10HP	UIB30H	UIB30H + PC10HP
DN15 - ½"	61.5	88	124.5	159.0	33.5	83	1.70	2.30	1.85	2.45
DN20 - 3/4"	73.5	86	124.5	159.0	33.5	83	1.70	2.40	1.85	2.55
DN25 - 1"	90.0	89	124.5	159.0	33.5	83	1.70	2.40	1.85	2.55



UIB30 and UIB30H with optional drain plug + PC10HP

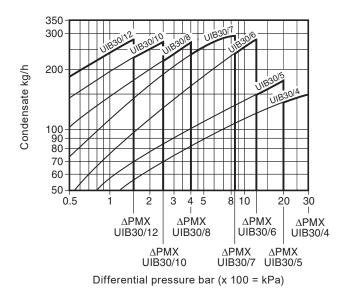
	Α	В		С	D	E	F	G		We	ight	
Size			UIB30	UIB30H				Plug withdrawal distance	UIB30	UIB30 + PC10HP	UIB30H	UIB30H + PC10HP
DN15 - ½"	61.5	88	158	192	33.5	83	32	20	1.90	2.50	2.05	2.65
DN20 - 3/4"	73.5	86	158	192	33.5	83	32	20	1.90	2.60	2.05	2.75
DN25 - 1"	90.0	89	158	192	33.5	83	32	20	1.90	2.60	2.05	2.75

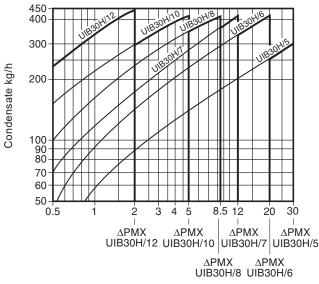


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Swivel connectors and traps

Note: The trap should be selected for the most appropriate working pressure differential and not on the basis of load. For example: 80 kg/h at 7 bar differential should be handled with the UIB30/7 and not the UIB30/4.





Differential pressure bar (x 100 = kPa)

How to order The UIB30 is supplied in two parts:

PC10HP	Standard connection	
PC20 + 'Y' type straine		Note: Any optional extras
PC3_	+ 1 integral ISO valve	need to be specified at the
PC4_	+ 2 integral ISO valves	time of order placement.
	PC20 PC3_	PC20 + 'Y' type strainer PC3_ + 1 integral ISO valve

2. The UIB30 trap complete with inner and outer gaskets and two connector screws.

How to order example:

1 off 1/2" PC10HP swivel connector having screwed NPT connections for use with a UIB30/4 sealed inverted bucket steam trap.

1 off UIB30/4 sealed inverted bucket steam trap complete with gaskets and connector screws. or

1 off UIB30/4 sealed inverted bucket steam trap with a ½" NPT drain plug and connection, complete with gaskets and connector screws.

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P113-02) supplied with the product.

Installation note:

The pipeline connector can be installed in either horizontal or vertical pipework.

Disposal:

The UIB30 trap unit is manufactured from stainless steel and is therefore totally recyclable. No ecological hazard is anticipated with the disposal of this product provided due care is taken.

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Swivel connectors and traps

Spare parts

The spare parts available are shown in heavy outline. Parts drawn in a grey line are not supplied as spares.

Available spares

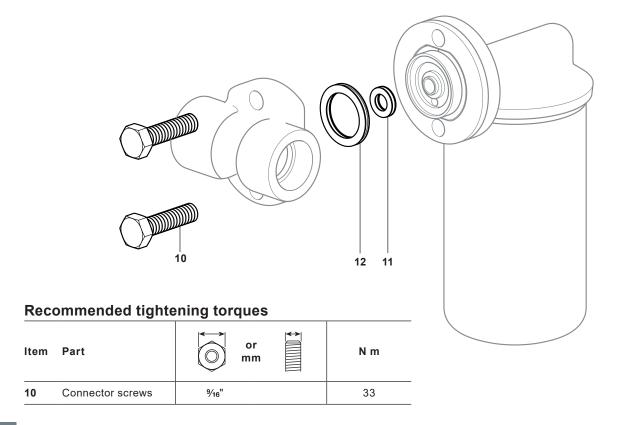
Connector screw and gasket set

10, 11, 12

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the type of trap.

Example: 1 - Connector screw and gasket set for a Spirax Sarco UIB30 sealed inverted bucket steam trap.



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Steam traps

Swivel connectors and traps

TI-P113-03 CMGT Issue 3



Sealed Inverted Bucket Steam Trap (for use with Pipeline Connectors)

Description

The UIB45 is a sealed inverted bucket steam trap for either horizontal or vertical installation (with the cover hanging downwards). When installed with a suitable pipeline connector (available separately from Spirax Sarco) the UIB45 can easily and simply be removed without breaking into the pipeline, thus speeding up trap replacement with minimal system downtime. Pipeline connectors are available with screwed, socket weld and flanged end connections.

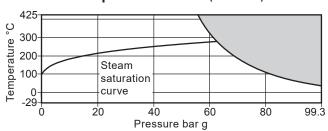
Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 2014/68/EU.

Note: The body/cover weld joint complies with ASME section IX.

This product is available with certification to EN 10204 3.1. Note: All certification/inspection requirements must be stated at the time of order placement.

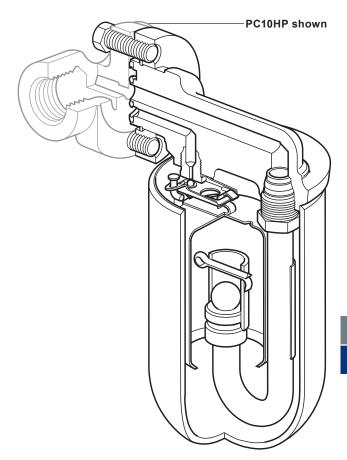
Pressure/temperature limits (ISO 6552)



The product must not be used in this region.

Note: The model of pipeline connector and connections selected will dictate the maximum operating limits of the complete assembly. Reference the specific pipeline connector Technical Information sheet as detailed in 'Pipeline connector options'.

Body de	sign conditions	AS	ME 600			
PMA	Maximum allowal	ole pressure	99.3 bar g	@ 38 °C		
TMA	Maximum allowal	ole temperature	425 °C @	56 bar g		
Minimur	n allowable tempe		-29 °C			
РМО	Maximum operati saturated steam s		63 bar g			
ТМО	Maximum operati	ng temperature	425 °C @	56 bar g		
Minimur	m operating tempe	rature		0 °C		
Note: F	or lower operating	temperatures co	nsult Spirax	Sarco		
		45.0 bar		UIB45/5		
A 5107	Maximum differential	20.0 bar		UIB45/6		
Δ PMX	pressure	8.5 bar		UIB45/8		
		4.5 bar	U	IB45/10		
Designed for a maximum cold hydraulic test pressure of 149 bar g						



Pipeline connector options

The UIB45 can be fitted to a variety of pipeline connectors includina:

PC10HP	Straight connector	ASME 600	(TI-P128-10)
PC20	Straight connector with Maximum differential pressure	ASME 300	(TI-P128-15)
PC3_	Straight connector with one piston isolation valve	ASME 600	(TI-P128-02)
PC4_	Straight connector with two piston isolation valve	ASME 600	(TI-P128-03)

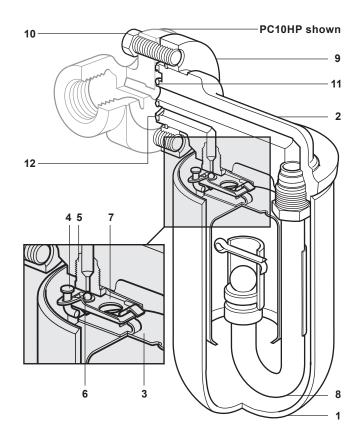
See the relevant Technical Information sheet as listed above for details of the connections available for each pipeline connector.

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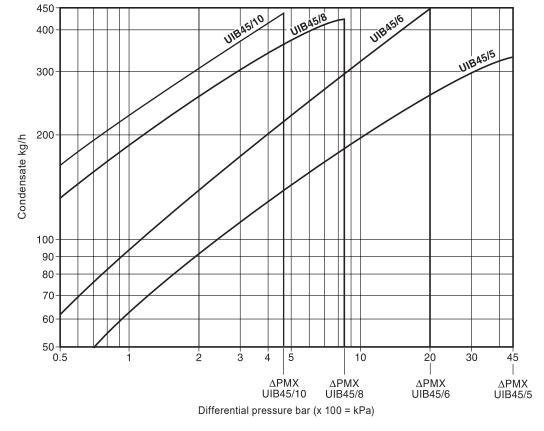
Swivel connectors and traps

Materials

Part	Material	
Cover	Stainless steel	ASTM A240 Gr. 304
Body	Stainless steel	ASTM A182 F304
Bucket	Stainless steel	BS 1449 304 S 12
Pivot pin	Stainless steel	BS 970 304 S 15
Valve seat	Stainless steel	AISI 440B
Valve	Stainless steel	AISI 440B
Valve lever	Stainless steel	BS 1449 304 S 16
Internal tube	Stainless steel	ASTM A269 304
Flange	Alloy steel - ELNP	ASTM A193 B7
Connector screw	Steel	ASTM A193 B7
Inlet gasket	Graphite / stainless steel laminate	AISI 304 strip
Outlet gasket	Graphite / stainless steel laminate	AISI 304 strip
	Cover Body Bucket Pivot pin Valve seat Valve Valve lever Internal tube Flange Connector screw Inlet gasket	Cover Stainless steel Body Stainless steel Bucket Stainless steel Pivot pin Stainless steel Valve seat Stainless steel Valve Stainless steel Valve Stainless steel Internal tube Stainless steel Flange Alloy steel - ELNP Connector screw Steel Inlet gasket Graphite / stainless steel laminate Outlet gasket



Capacities



Note: Trap should be selected for the most appropriate working pressure differential and not on the basis of load. e.g. 80 kg/h at 7 bar differential should be handled with the UIB45/8 and not the UIB45/5.

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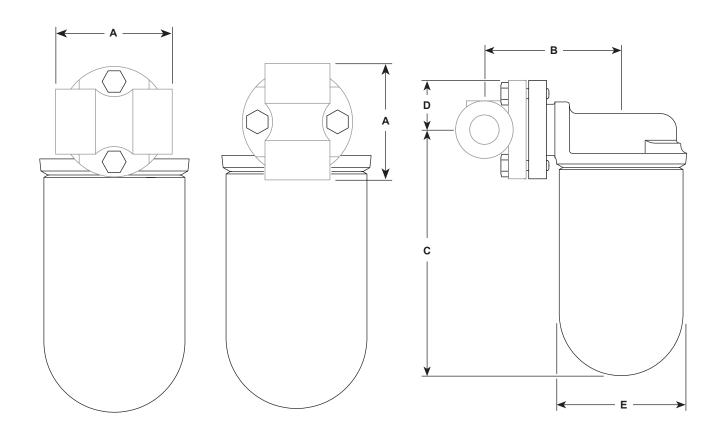
Steam traps

Swivel connectors and traps

Dimensions/weights (approximate) in mm and kg

Size	Α	В	С	D	E	Weight
DN15 - ½"	61.5	86	170	33.5	90	2.6
DN20 - 3/4"	73.5	84	170	33.5	90	2.6
DN25 - 1"	90.0	87	170	33.5	90	2.6

Please note: The weights shown are for the trap only and do not include the pipeline connector.



How to order

The UIB45 is supplied in two parts:-

		PC10HP	Straight connection
1.	The swivel pipeline	PC20	Straight connection with 'Y' type strainer
C	connector	PC3_	Straight connection with one integral ISO valve
		PC4_	Straight connection with two integral ISO valves

The UIB45 trap complete with inner and outer gaskets and two connector screws.

Note: Any optional extras need to be specified at the time of order placement.

1 off 1/2" PC10HP straight connector having screwed NPT connections for use with a UIB45/5 sealed inverted bucket steam trap.

1 off UIB45/5 sealed inverted bucket steam trap complete with gaskets and connector screws.

Swivel connectors and traps

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P113-04) supplied with the product.

Installation note:

The pipeline connector can be installed in either horizontal or vertical pipework.

Disposal:

The UIB45 trap unit is manufactured from stainless steel and is therefore totally recyclable. No ecological hazard is anticipated with the disposal of this product provided due care is taken.

Spare parts

The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

Available spares

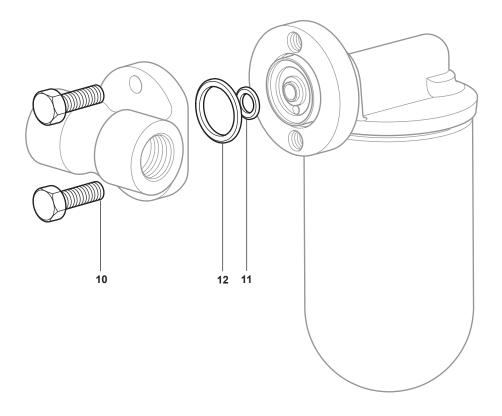
Connector screw and gasket set

10, 11, 12

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the type of trap.

Example: 1 - Connector screw and gasket set for a Spirax Sarco UIB45 sealed inverted bucket steam trap.



Recommended tightening torques (for suitably lubricated threads)

Item	Part	or mm	N m
10	Connector screws	9/16"	33