



## PC20

# Universal Pipeline Connector with Integral Strainer

### Description

The PC20 range of pipeline connectors are designed to give universal flow direction when used with the following swivel connector steam traps:- UTD30, UTD42, UTD46M, UTD52, UBP21, UBP32, UFT14, UFT32, UIB30, UIB30H and UIB45.

The integral strainer screen provides protection for the selected steam trap where system conditions require.

There is an optional blowdown valve which can be used to periodically remove any pipeline debris.

The PC20 can also be supplied fitted with an integral Spiratec sensor to detect steam trap failures and reduce energy costs.

These are designated IPC20 and IPC21. Full details are on TI-P128-17.

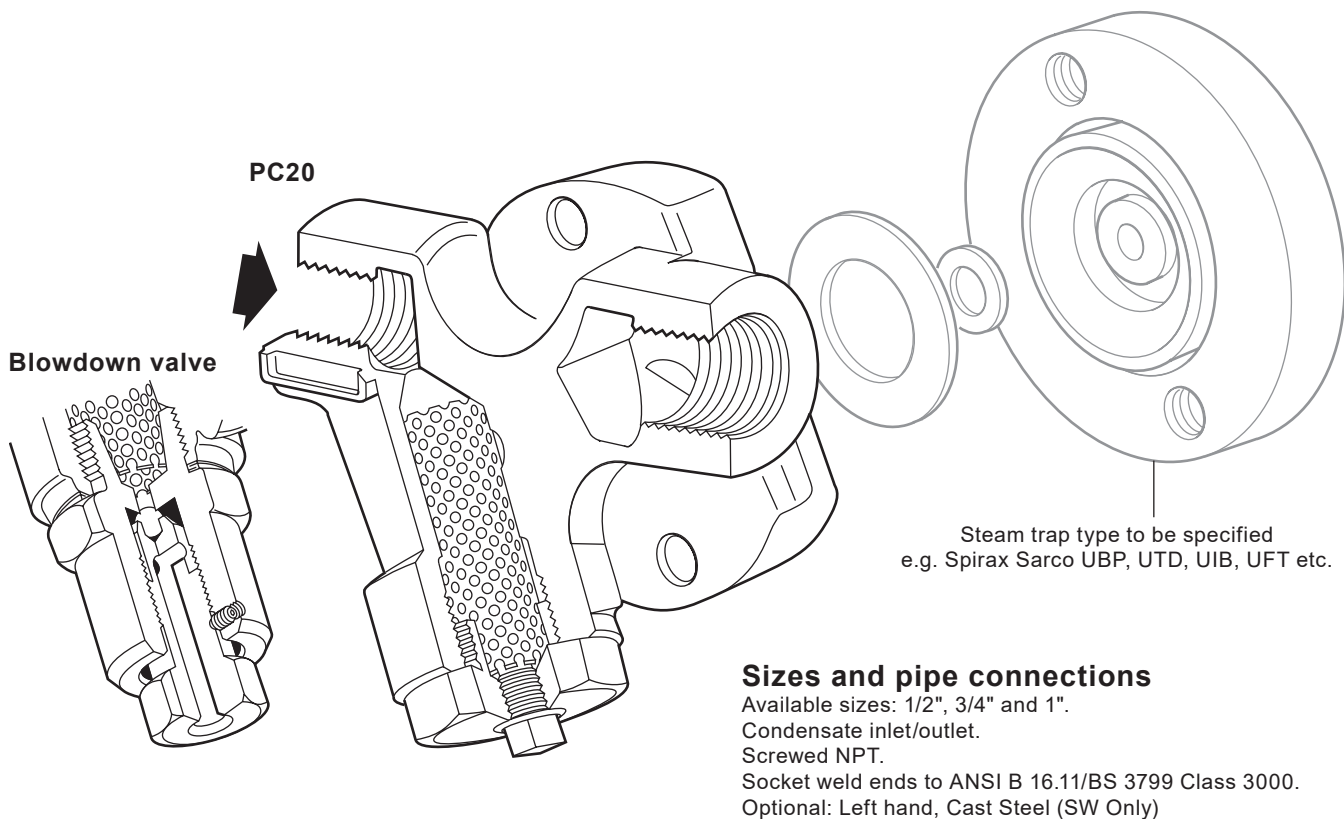
### Standards

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

### Certification

This product is available with certification to EN 10204 2.2.

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



### Sizes and pipe connections

Available sizes: 1/2", 3/4" and 1".

Condensate inlet/outlet.

Screwed NPT.

Socket weld ends to ANSI B 16.11/BS 3799 Class 3000.

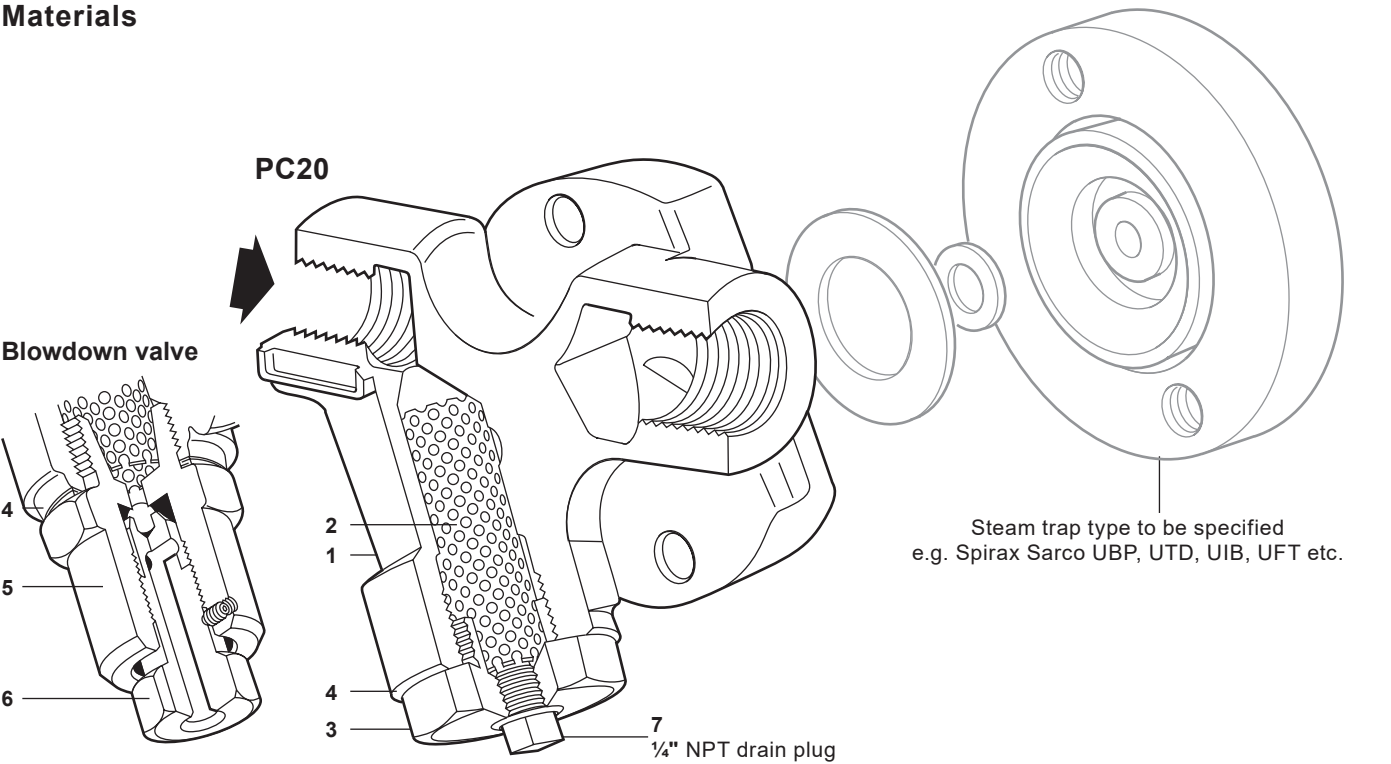
Optional: Left hand, Cast Steel (SW Only)

### Optional extras

- Integral blowdown valve, see TI-P153-01 for further details.

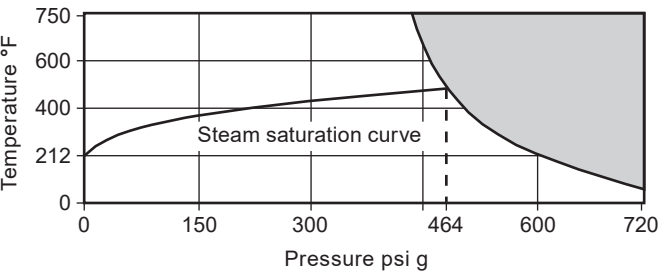
- Integral Spiratec sensor, see TI-P128-17 for further details.

Materials



No. Part	Material	
1 Body	Austenitic stainless steel	ASTM A 351 CF8
2 Strainer screen	Austenitic stainless steel (0.8 mm perforations.)	316L
3 Strainer cap	Austenitic stainless steel	AISI 303
4 Cap gasket	Stainless steel	BS 1449 304 S16
5 Blowdown valve	Stainless steel	ASTM A582 A16
6 Valve screw	Stainless steel	ASTM A276 431
7 Plug	Steel	ASTM A105

Operating range

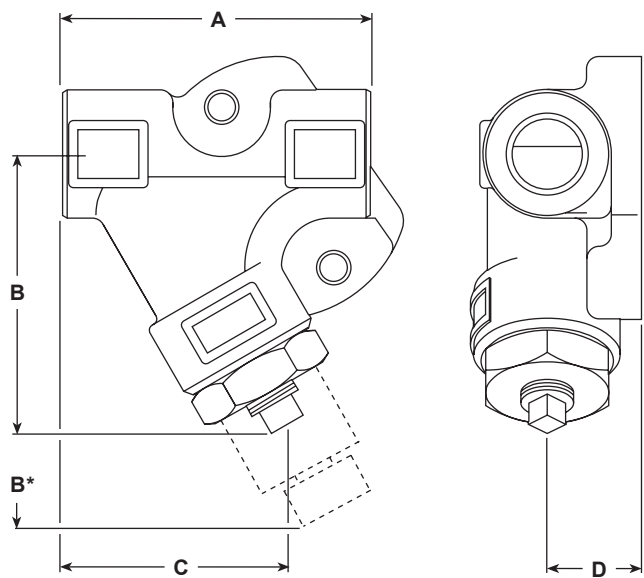


The product **must not** be used in this region.

\*PMO Maximum operating pressure recommended for saturated steam service.

Body design conditions		ANSI/ASME Class 300 (PN50)
PMA	Maximum allowable pressure	720 psi g @ 100 °F
TMA	Maximum allowable temperature	750 °F @ 600 psi g
PMO	Maximum operating pressure for saturated steam service	600 psi g
TMO	Maximum operating temperature	750 °F
Designed for a maximum cold hydraulic test pressure of:		900 psi g

Dimensions (approximate) in inches



Weight (approximate) in lbs

Size	Weight
1/2"	1.32
3/4"	1.54
1"	1.54

Strainer connector dimensions (inches)							
Model >	Right hand and left hand standard with 3/8" NPT plug			Right hand and left hand with blowdown valve			All strainer connectors
Size	A	B	C	A	B*	C	D
1/2"	3.2	3.1	2.6	3.2	4.4	3.1	.8
3/4"	3.5	3.2	2.8	3.5	4.5	3.3	.8
1"	3.9	3.4	3.0	3.9	4.6	3.5	.8

Safety information, installation and maintenance

For full details see Installation and Maintenance Instructions (IM-P128-11) supplied with the product.

General information

There are two criteria which must be satisfied to ensure that the swivel connector trap will operate correctly and ensure effective condensate removal:

- The PC20 shall be installed with flow in the direction of the arrow. Flow can be horizontal (either direction), vertical or inclined.
- The connection face for the swivel connector steam trap must always be in the vertical plane unless stated on relevant steam trap Installation and Maintenance Instructions.

After installation it is recommended that the pipeline connector is insulated to minimise radiated heat losses and to protect personnel from burns risk.

**Note:** Ensure that the discharge from the blowdown valve blows to a safe place.  
Detailed instructions regarding welding socket weld versions are provided with the product.

Disposal

The product is recyclable. No ecological hazard is anticipated with disposal of this product providing due care is taken.

How to order

**Example:** 1 off 1/2" Spirax Sarco PC20 pipeline connector with integral strainer in austenitic stainless steel socket weld to ANSI B 16.11 Class 3000.

Steam trap shall be purchased with the pipeline connector, which once installed remains permanently in the pipeline. Trap shall be attached to the connector by two bolts to enable simple quick rapid installation and replacement. The connection is designed to allow installation on pipe work that is vertical, horizontal, or any angle in between. When specified, the connector shall be provided with integral "Y" pattern strainer with or with integral blowdown valve right hand or left hand pattern.

Spare parts

The spare parts available are detailed below. No other parts are supplied as spares.

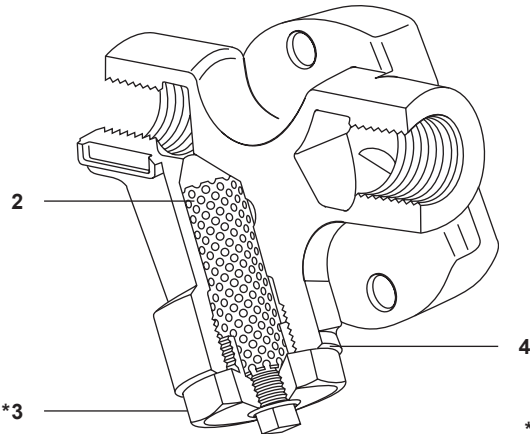
Available spares

Blowdown valve and gasket	4, 5
Strainer screen and gasket	2, 4

How to order spares

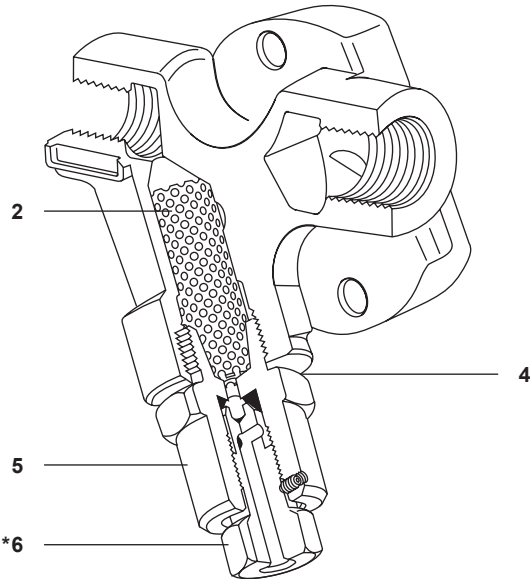
Always order spares using the description given in the column headed 'Available spares' and state model number.  
Example: 1 - Strainer screen and gasket for a 1/2" PC20 connector.

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\*Items 3 and 6 are not available spares

PC20 with blowdown valve



Recommended tightening torques

Item		or mm		ft-lb
3	32 A/F	M28 x 1.5P		125 - 140
5	32 A/F	M28 x 1.5P		125 - 140
6	19 A/F			33 - 37