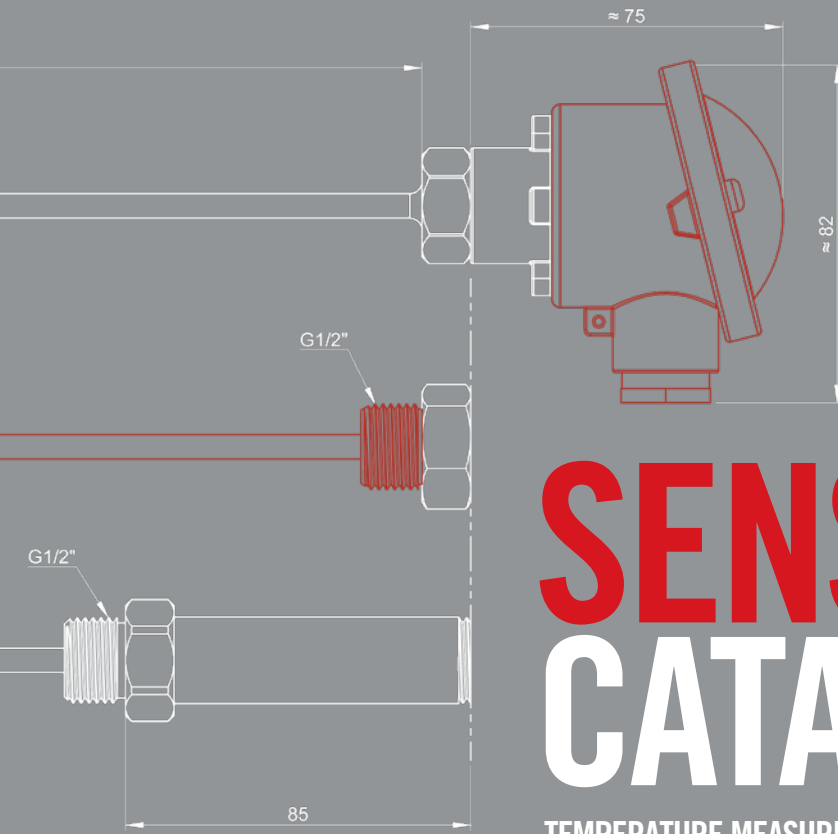
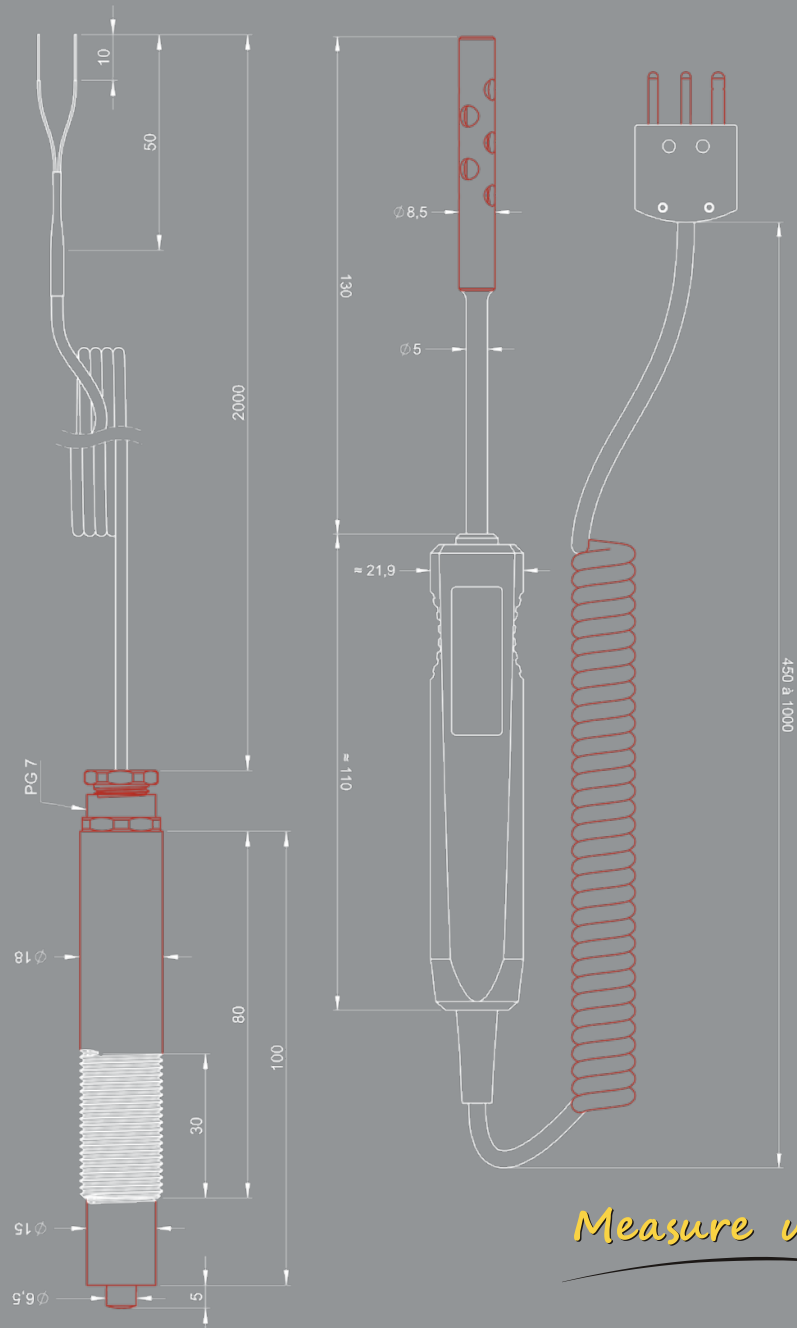
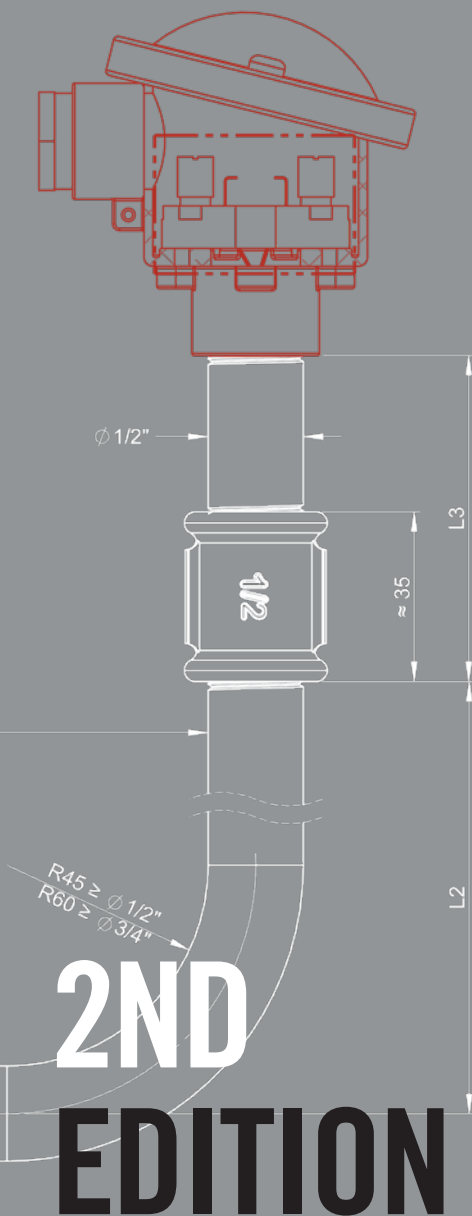
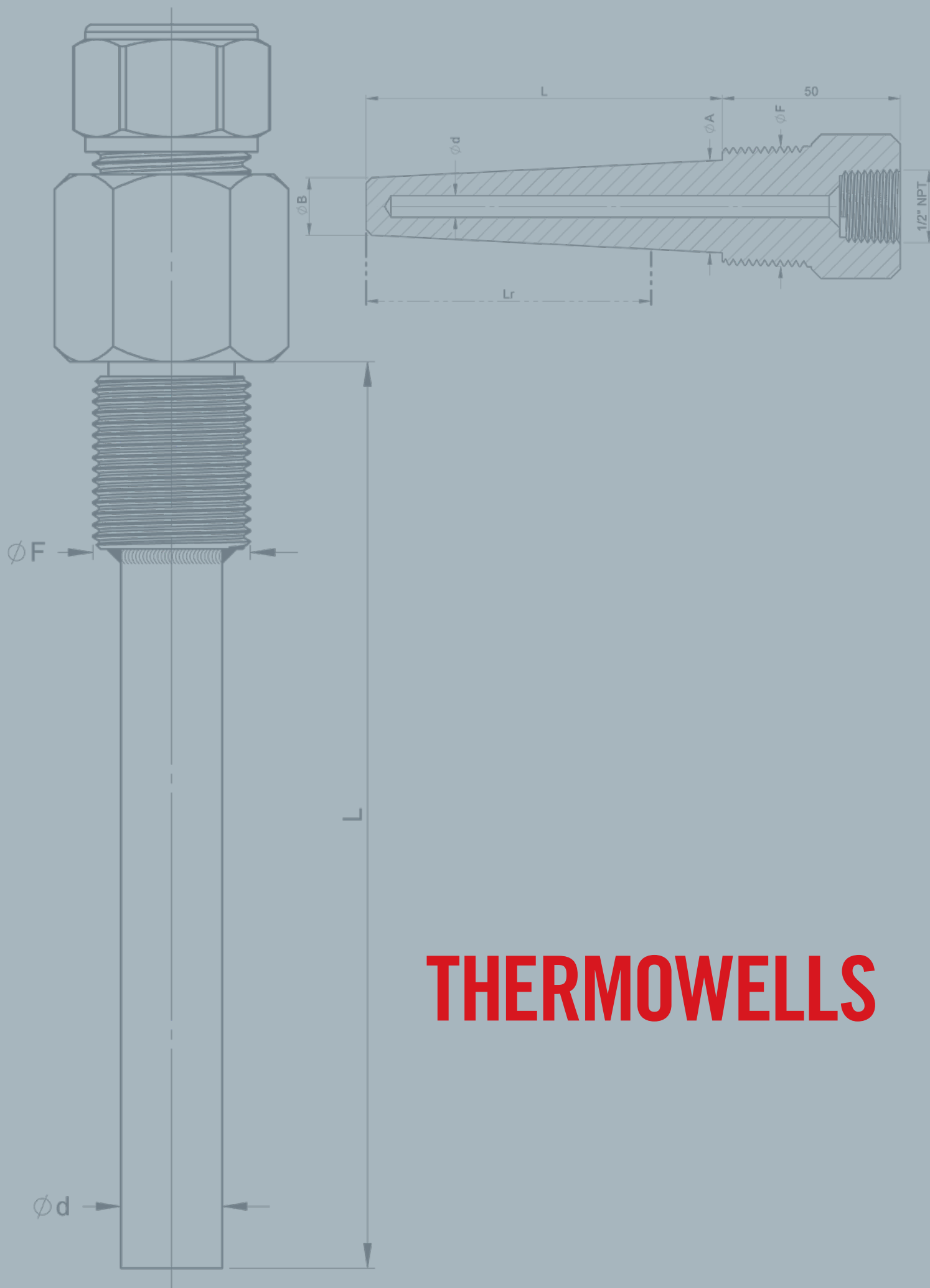




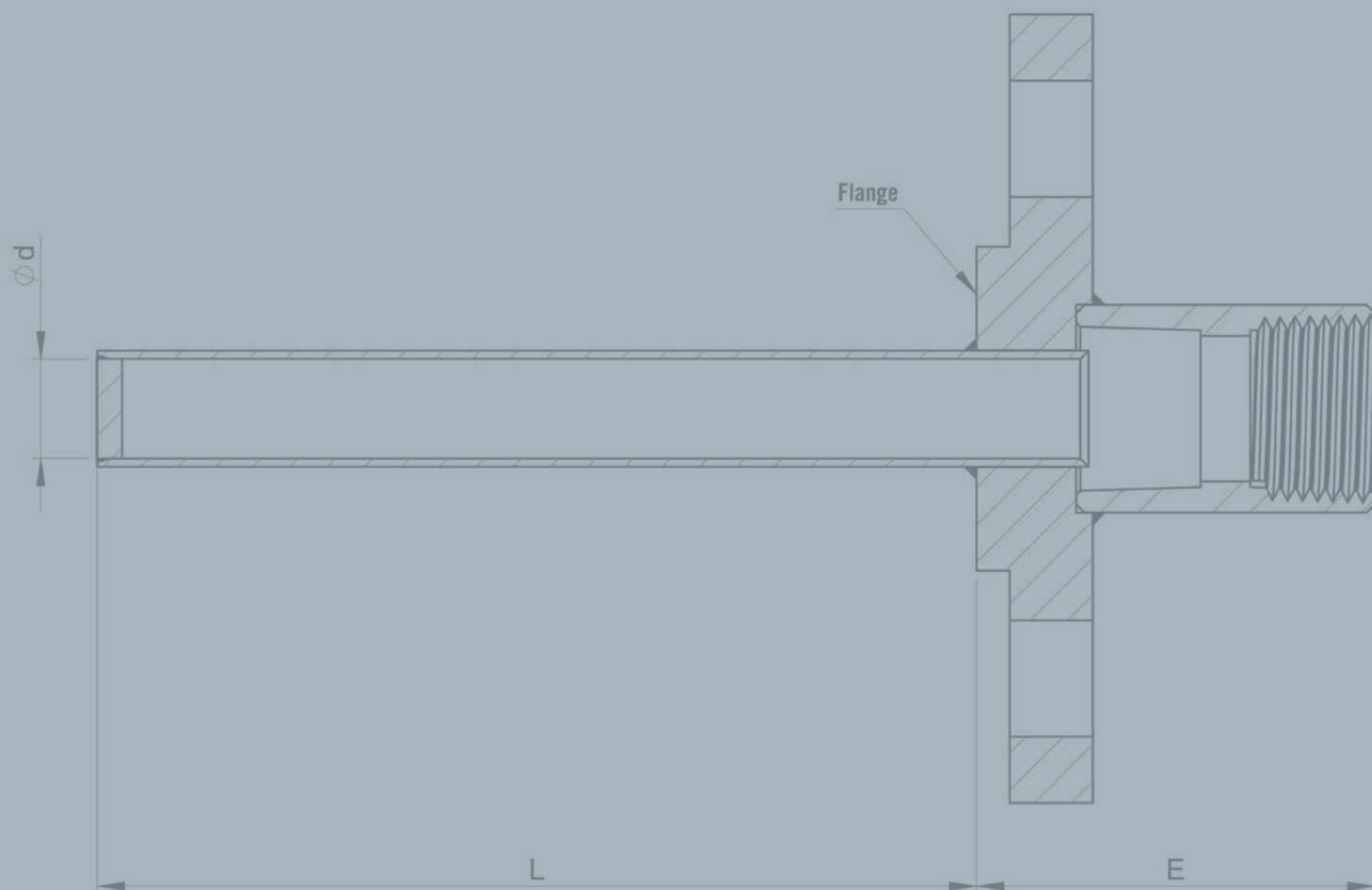
SENSORS CATALOGUE

TEMPERATURE MEASUREMENT IN INDUSTRIAL ENVIRONMENTS





THERMOWELLS



PRODUCT	TYPE	DESIGN	PROCESS CONNECTION	CONSTRUCTION	MODEL	PAGE
Thermowell	Mechanically welded	Straight	Screwed		PMSV	272
			Flanged	Double welding	PMSB	274
	Bored	Straight	Screwed		PDV	276
			Flanged	Screwed/Welded	PDB-VS	278
			Flanged	Double welding	PDB-2S	280
		Tapered	Screwed		PCV	282
			Flanged	Screwed/Welded	PCB-VS	284
				Double welding	PCB-2S	286
				Full penetration	PCB-PP	288
				Forged	PCB-F	290



PMSV

THERMOWELL

STRAIGHT

SCREW-
ON

DESCRIPTION

Straight, screw-on, mechanically-welded thermowell for use in undemanding operating conditions.

SPECIFICATIONS

Model	PMSV
Max. pressure and temperature	100 bar / 350°C
Instrument connection	Leak-tight fitting
Sensor diameter	3 - 4.5 - 6 mm
Process connection	1/8" - 1/4" - 3/8" - 1/2" G 1/8" - 1/4" - 3/8" - 1/2"
Tube diameter D (mm)	5x3.5 - 6x5 - 9x7
Material	316
Length L min/max (mm)	50 to 400 mm

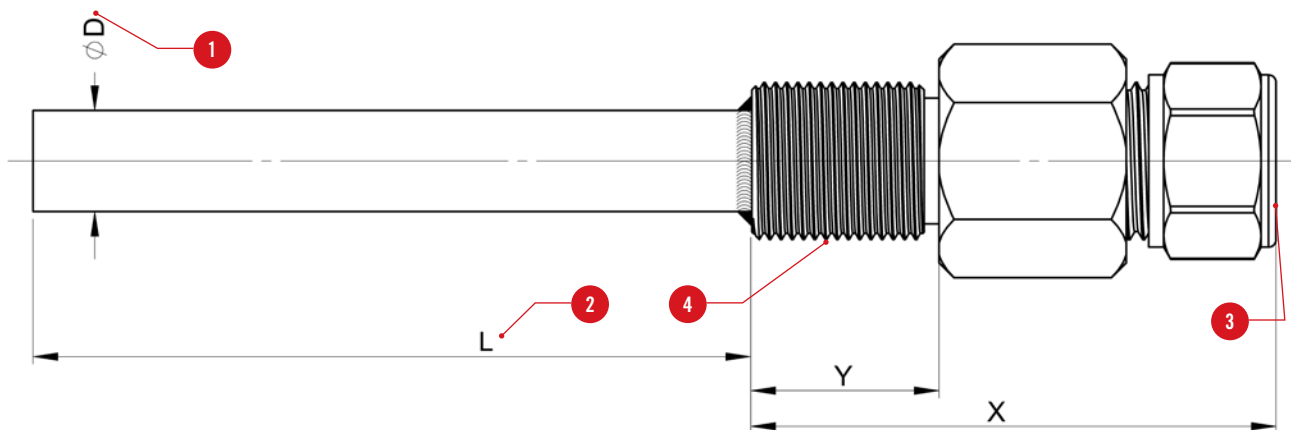
DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	Ø TUBE (mm)	L (mm)	SENSOR DIAMETER (mm)	PROCESS CONNECTION
PMSV	A	50	40	N38
Reference in table and diagram	1	2	3	4
Possible choice	5 x 3.5: A 6 x 5: B 9 x 7: C	50 100 150 200 300 400	3: 30 4.5: 45 6: 60	1/8" NPT: N18 1/4" NPT: N14 3/8" NPT: N38 1/2" NPT: N12 G 1/8": G18 G 1/4": G14 G 3/8": G38 G 1/2": G12

DIAGRAM (MM)



PROCESS CONNECTION DIMENSIONS (MM)

Process connection	X (MM)	Y (MM)
1/8" NPT	35	10
1/8" G	35	10
1/4" NPT	45	15
1/4" G	40	10
3/8" NPT	45	15
3/8" G	40	15
1/2" NPT	50	20
1/2" G	45	15

For any other configuration, please contact us.

⚠ Minimum order quantity : 10

PMSB

THERMOWELL



STRAIGHT

FLANGED

DESCRIPTION

Straight, flanged, mechanically-welded thermowell for use in undemanding operating conditions.

SPECIFICATIONS

Model	PMSB
Instrument connection	1/2"NPT
Process connection	See table opposite
Tube D diameter (mm)	10, 12, 20
Material	316L - 321
Length L min/max (mm)	50 to 2,000 mm

DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	MATERIAL	TUBE DIAMETER (mm)	FLANGE	L (mm)	OPTION PLUG + CHAIN	TAG
PMSB	AC	12	218	150	NO	-
Reference in table and diagram		1	2	3		
	316L : AC 321 : AR	10 12 20	See table below	50 - 2 000 mm	YES NO	Personalized customer reference
Possible choice						

DIAGRAM (MM)

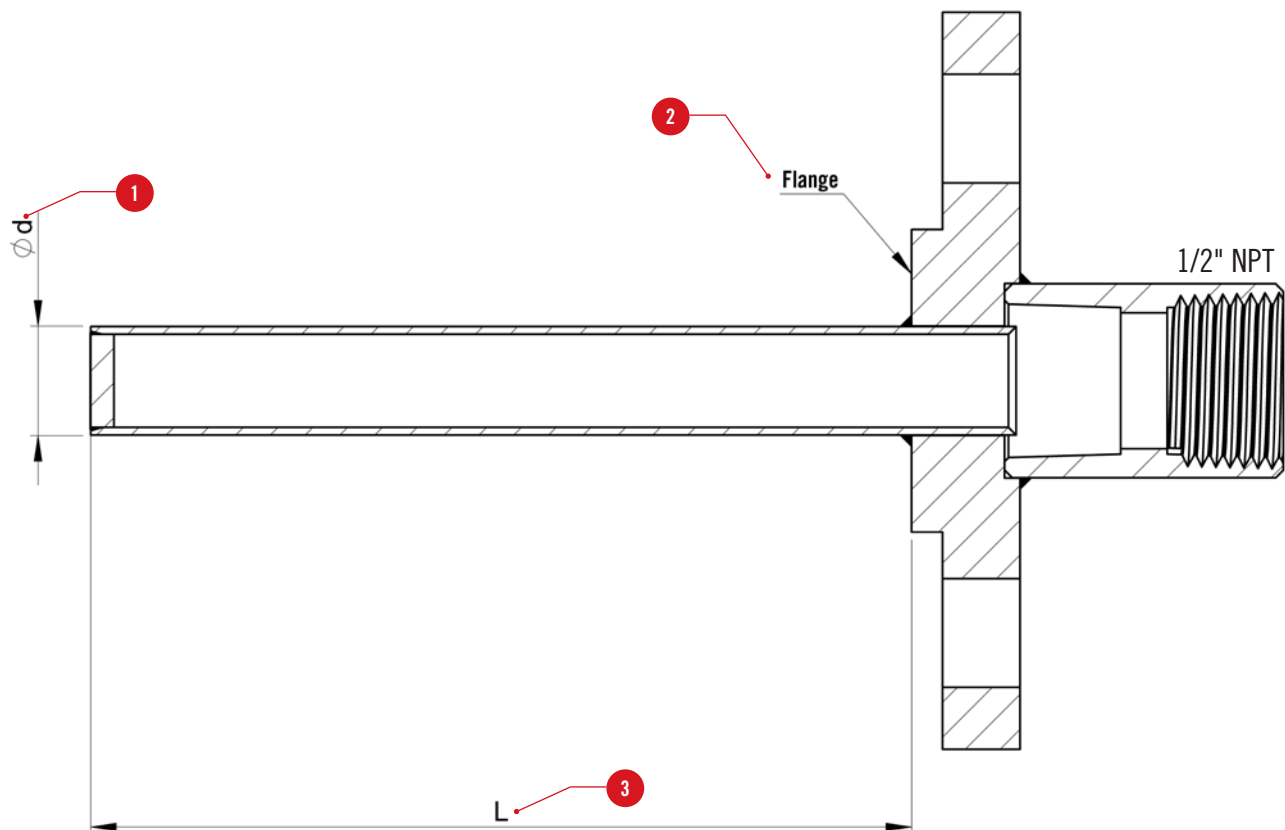


TABLE OF FLANGES

Flange code	Material	ASME B16.5			EN1759-1		
		DN	Class	Face	DN	PN	Face
217	316L	1"1/2	150	RF	40	20	B1
218	316L	1"1/2	300	RF	40	50	B1
427	316L	1"1/2	600	RF	40	100	B1
540	321	1"1/2	150	RF	40	20	B1
481	321	1"1/2	300	RF	40	50	B1
482	321	1"1/2	600	RF	40	100	B1

For any other configuration, please contact us.



PDV

THERMOWELL

BORED
FROM BAR
STOCK

STRAIGHT

SCREW-
ON

DESCRIPTION

Straight, screw-on thermowell bored from bar stock, for use in demanding operating conditions.

It offers an excellent mechanical pressure withstand.

SPECIFICATIONS

Model		PDV
Instrument connection		1/2"NPT
Process connection		3/4"NPT - 1"NPT - G3/4" - G1"
Diameter (mm)		20
Bore diameter (mm)		10 / 6.5
Material		304L - 316L - 321
Length L min/max (mm)		50 to 500 mm
Tip		Normal - Thinned - Reduced
Roughness	Ra	0.8
Non-Destructive Controls for compliance with the PED directive 2014/68/EU	Material certificate	As per EN10204 3.1
	Pressure test	Internal at 1.5xPN for 15' (max. 600 bar) as per ASME Section XIII Division 1 Section UG-99
	PMI	1 point
Coating		Stellite, thickness 2 mm Halar, thickness 0.1mm Tantalum, thickness 0.5 mm

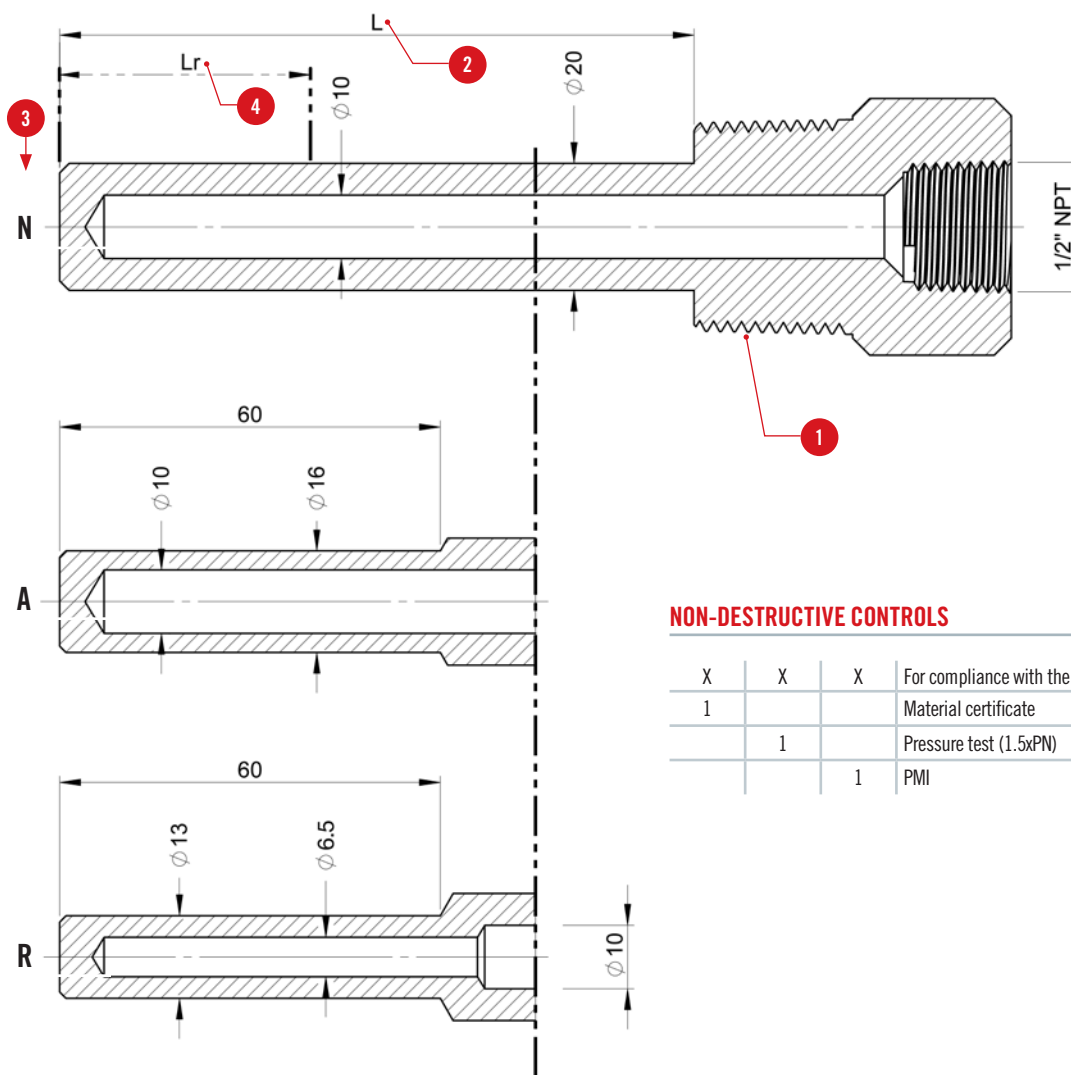
DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	PROCESS CONNECTION	MATERIAL	LENGTH L (mm)	TIP	OPTION			
					REVÊTEMENT	NDC	PLUG + CHAIN	TAG
PDV	G10	AR	250	A	S200		NO	-
Reference in table and diagram								
Possible choice								
		3/4"NPT : N34 1"NPT : N10 G3/4" : G34 G1" : G10	304L : AB 316L : AC 321 : AR	50 to 500 mm	Normal: N Thinned: A Reduced: R	Without: 0000 Stellite: SXXX L max.: 200 mm Halar: Mxxx Tantalum: Txxx (xxx: length in mm from tip)	In compliance with the PED directive 2014/68/EU (see table below).	YES NO Personalized customer reference

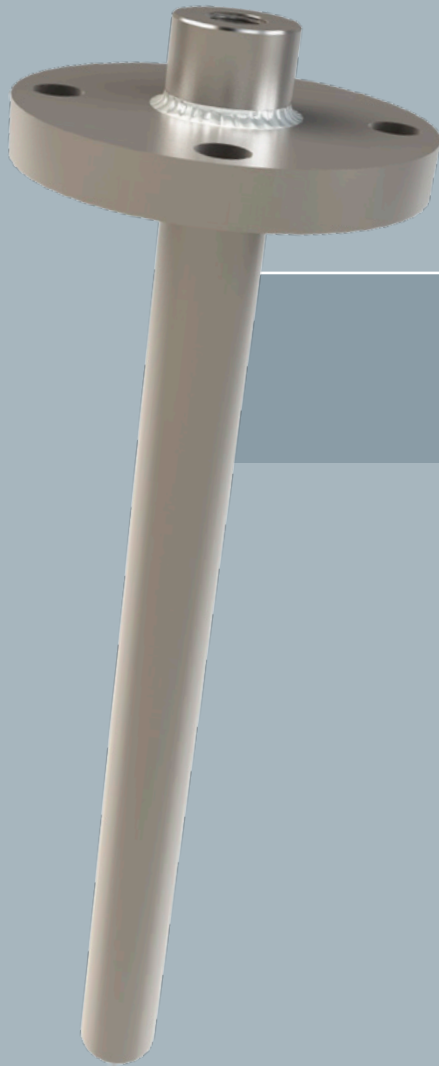
DIAGRAM (MM)



NON-DESTRUCTIVE CONTROLS

			5
X	X	X	For compliance with the PED directive 2014/68/EU
1			Material certificate
	1		Pressure test (1.5xPN)
		1	PMI

For any other configuration, please contact us.



PDB-VS

THERMOWELL

BORED
FROM BAR
STOCK

STRAIGHT

FLANGED

ASME
B16.5

DESCRIPTION

Straight thermowell bored from bar stock, with screwed and welded flange, for use in demanding operating conditions. It offers an excellent mechanical pressure withstand.

SPECIFICATIONS

Model		PDB-VS
Compliance with standards		ASME B16.5
Instrument connection		1/2"NPT
Process connection	Flange	As per table opposite
Diameter (mm)		20
Bore diameter (mm)		10 / 6.5
Material		316L - 321
Length L min/max (mm)		50 to 500 mm
Roughness	Ra	0.8
Non-Destructive Controls for compliance with the PED directive 2014/68/EU	Material certificate	As per EN10204 3.1
	Pressure test	Internal at 1.5xPN for 15' (max. 600 bar) as per ASME Section XIII Division 1 Section UG-99
	Penetrant test	Performed according to EN ISO3452 and interpreted according to EN ISO23277 level 1 or ASME VIII div 1.
	PMI	2 points (flange + thermowell)
Coating		Stellite, thickness 2 mm Halar, thickness 0.1mm Tantalum, thickness 0.5mm

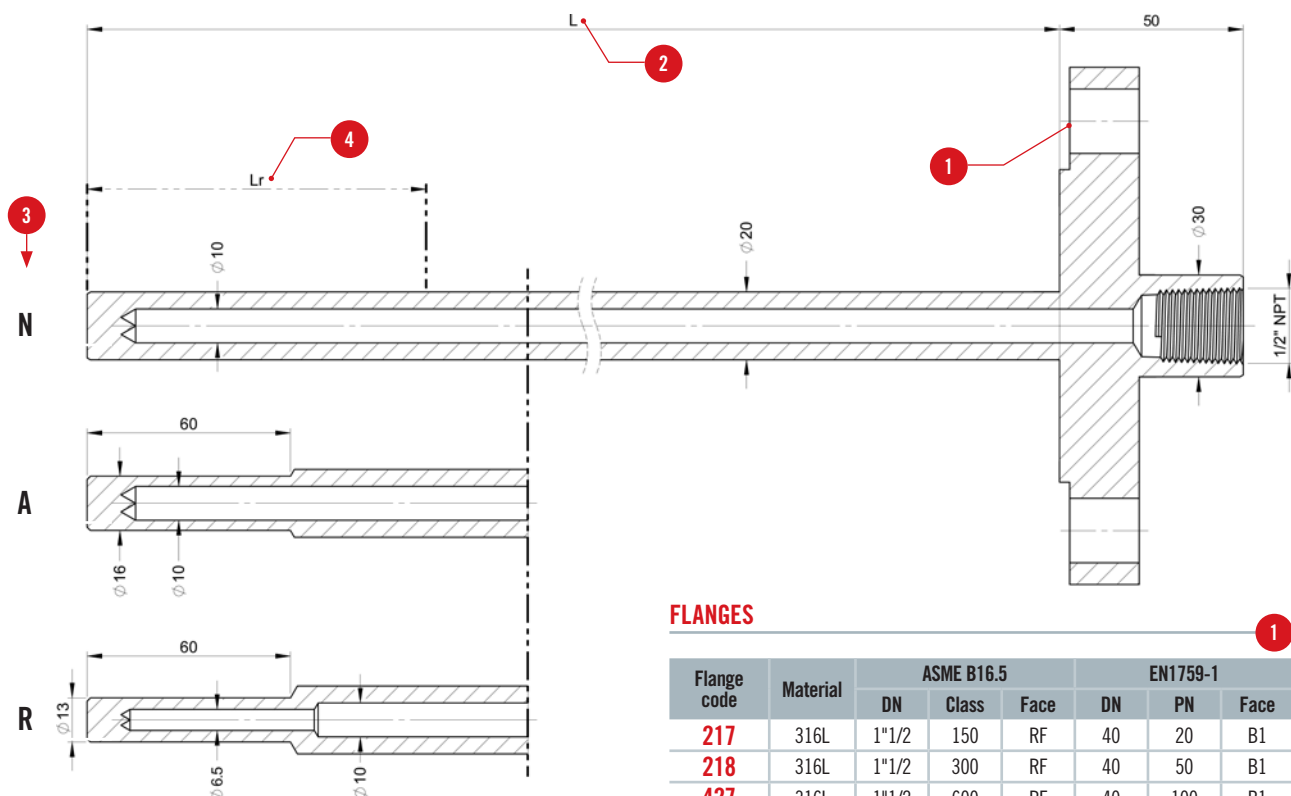
DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	FLANGE	MATERIAL	LENGTH L (mm)	TIP	COATING	OPTION	PLUG + CHAIN	TAG
PDB-VS	217	AC	700	N	M100	NDC	NO	-
Référence tableau et schéma	1		2	3	4	5		
Choix possible	As per table below	316L : AC 321 : AR	50 to 500 mm	Normal: N Thinned: A Reduced: R	Without: 0000 Stellite: SXXX L max.: 200mm Halar: Mxxx Tantalum: Txxx (xxx: length in mm from tip)	In compliance with the PED directive 2014/68/EU (see table opposite).	YES NO	Personalized customer reference

DIAGRAM (MM)



NON-DESTRUCTIVE TESTING

X	X	X	X	For compliance with the PED directive 2014/68/EU
1				Material certificate: flange + thermowell
	1			Weld penetrant test (COFREND 2)
		1		Pressure test (1.5xPN)
			1	PMI

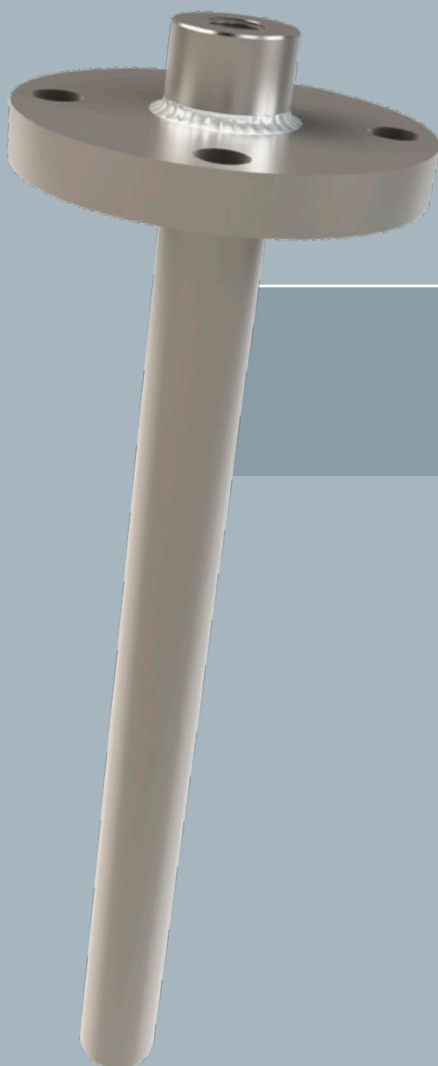
FLANGES

Flange code	Material	EN1092-1		
		DN	PN	Face
400	316L	10/40	40	B1
413	316L	10/40	50	B1

FLANGES

Flange code	Material	ASME B16.5			EN1759-1		
		DN	Class	Face	DN	PN	Face
217	316L	1"1/2	150	RF	40	20	B1
218	316L	1"1/2	300	RF	40	50	B1
427	316L	1"1/2	600	RF	40	100	B1
411	316L	1"1/2	600	RJ	40	100	B1
245	321	1"1/2	600	RJ	40	100	B1
540	321	1"1/2	150	RF	40	20	B1
481	321	1"1/2	300	RF	40	50	B1
482	321	1"1/2	600	RF	40	100	B1
219	316L	2"	150	RF	50	20	B1
409	316L	2"	300	RF	50	50	B1
448	316L	2"	600	RF	50	100	B1
238	316L	2"	600	RJ	50	100	
477	316L	2"	1500	RJ	50	250	
562	321	2"	150	RF	50	20	B1
269	321	2"	300	RF	50	50	B1
519	321	2"	600	RF	50	100	B1
563	321	2"	600	RJ	50	100	
564	321	2"	1500	RJ	50	250	

For any other configuration, please contact us.



PDB-2S

THERMOWELL

BORED
FROM BAR
STOCK

STRAIGHT

FLANGED

ASME
B16.5

DESCRIPTION

Straight thermowell bored from bar stock, with flange welded on both sides (partial penetration), for use in demanding operating conditions.

It offers an excellent mechanical pressure withstand.

SPECIFICATIONS

Model		PDB-2S
Compliance with standards		ASME B16.5
Instrument connection		1/2"NPT
Process connection	Flange	As per table opposite
Diameter (mm)		20
Bore diameter (mm)		10 / 6.5
Material		316L - 321
Length L min/max (mm)		50 to 500 mm
Roughness	Ra	0.8
Non-Destructive Controls for compliance with the PED directive 2014/68/EU	Material certificate	As per EN10204 3.1
	Pressure test	Internal at 1.5xPN for 15' (max. 600 bar) as per ASME Section XIII Division 1 Section UG-99
	Penetrant test	Performed according to EN ISO3452 and interpreted according to EN ISO23277 level 1 or ASME VIII div 1.
	PMI	2 points (flange + thermowell)
Coating		Stellite, thickness 2 mm Halar, thickness 0.1mm Tantalum, thickness 0.5mm

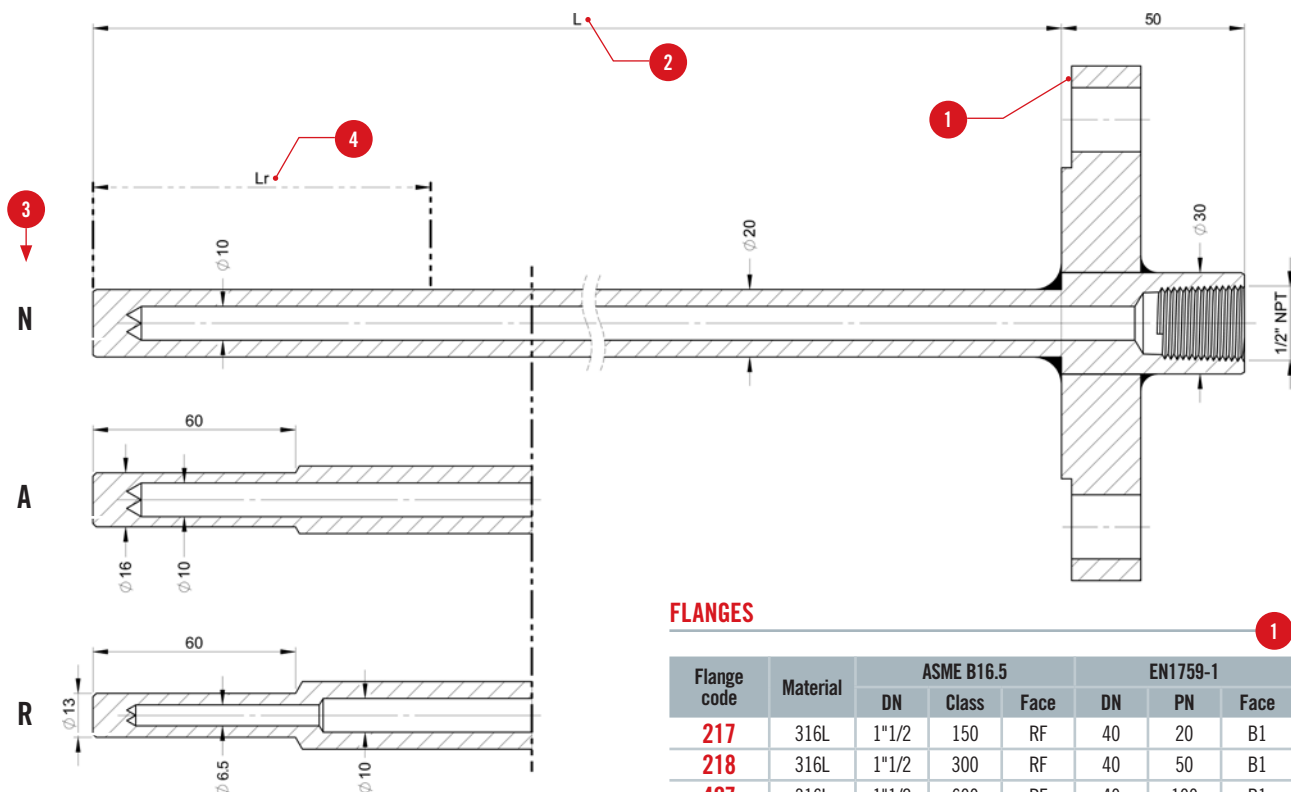
DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	FLANGE	MATERIAL	LENGTH L (mm)	TIP	COATING	NDC	OPTION PLUG + CHAIN	TAG
PDB-2S	427	AC	75	N	0000	-	NON	-
Reference in table and diagram	1		2	3	4	5		
Possible choice	As per table below	316L : AC 321 : AR	50 to 500 mm	Normal: N Thinned: A Reduced: R	Without: 0000 Stellite: SXXX L max.: 200mm Halar: Mxxx Tantalum: Txxx (xxx: length in mm from tip)	In compliance with the PED directive 2014/68/EU (see table opposite).	YES NO	Personalized customer reference

DIAGRAM (MM)



NON-DESTRUCTIVE CONTROLS

X	X	X	X	For compliance with the PED directive 2014/68/EU
1				Material certificate: flange + thermowell
	1			Weld penetrant test (COFREND 2)
		1		Pressure test (1.5xPN)
			1	PMI

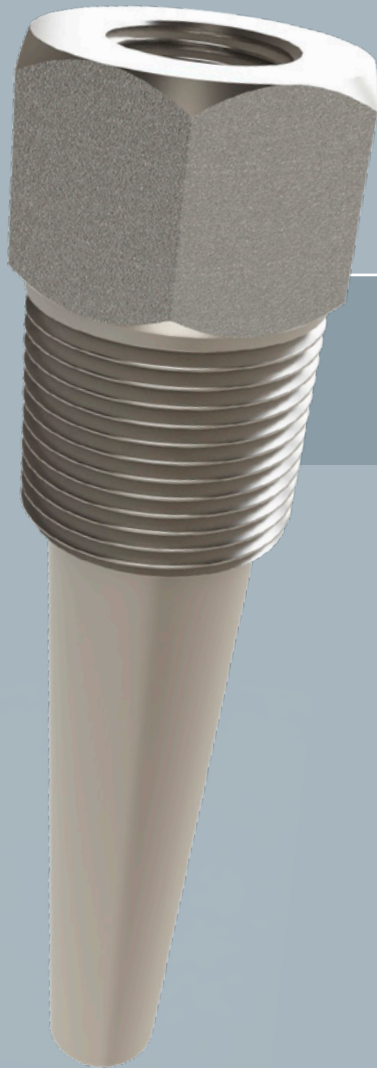
FLANGES

Flange code	Material	EN1092-1		
		DN	PN	Face
400	316L	10/40	40	B1
413	316L	10/40	50	B1

FLANGES

Flange code	Material	ASME B16.5			EN1759-1		
		DN	Class	Face	DN	PN	Face
217	316L	1"1/2	150	RF	40	20	B1
218	316L	1"1/2	300	RF	40	50	B1
427	316L	1"1/2	600	RF	40	100	B1
411	316L	1"1/2	600	RJ	40	100	B1
245	321	1"1/2	600	RJ	40	100	B1
540	321	1"1/2	150	RF	40	20	B1
481	321	1"1/2	300	RF	40	50	B1
482	321	1"1/2	600	RF	40	100	B1
219	316L	2"	150	RF	50	20	B1
409	316L	2"	300	RF	50	50	B1
448	316L	2"	600	RF	50	100	B1
238	316L	2"	600	RJ	50	100	
477	316L	2"	1500	RJ	50	250	
562	321	2"	150	RF	50	20	B1
269	321	2"	300	RF	50	50	B1
519	321	2"	600	RF	50	100	B1
563	321	2"	600	RJ	50	100	
564	321	2"	1500	RJ	50	250	

For any other configuration, please contact us.



PCV

THERMOWELL

BORED
FROM BAR
STOCK

TAPERED

SCREW-
ON

DESCRIPTION

Tapered, screw-on thermowell bored from bar stock, for use in demanding operating conditions.

It offers an excellent mechanical pressure withstand.

Compatible with PED 2014/68/EU.

SPECIFICATIONS

Model		PCV
Compliance with standards		ASME PTC19.3 TW-2016
Instrument connection		1/2"NPT
Process connection		3/4"NPT - 1"NPT - G3/4" - G1"
Thermowell shape		21x16 - 26x19
Bore diameter (mm)		6.5 - 8.5
Material		304L - 316L - 321
Length L min/max (mm)		50 to 500 mm
Roughness	Ra	0.8
Non-Destructive Controls for compliance with the PED directive 2014/68/EU	Material certificate	As per EN10204 3.1
	Calculation note	As per ASME PTC19.3 TW-2016
	Pressure test	Internal at 1.5xPN for 15' (max. 600 bar) as per ASME Section XIII Division 1 Section UG-99
	PMI	1 point
Coating		Stellite, thickness 2 mm Halar, thickness 0.1mm Tantalum, thickness 0.5mm

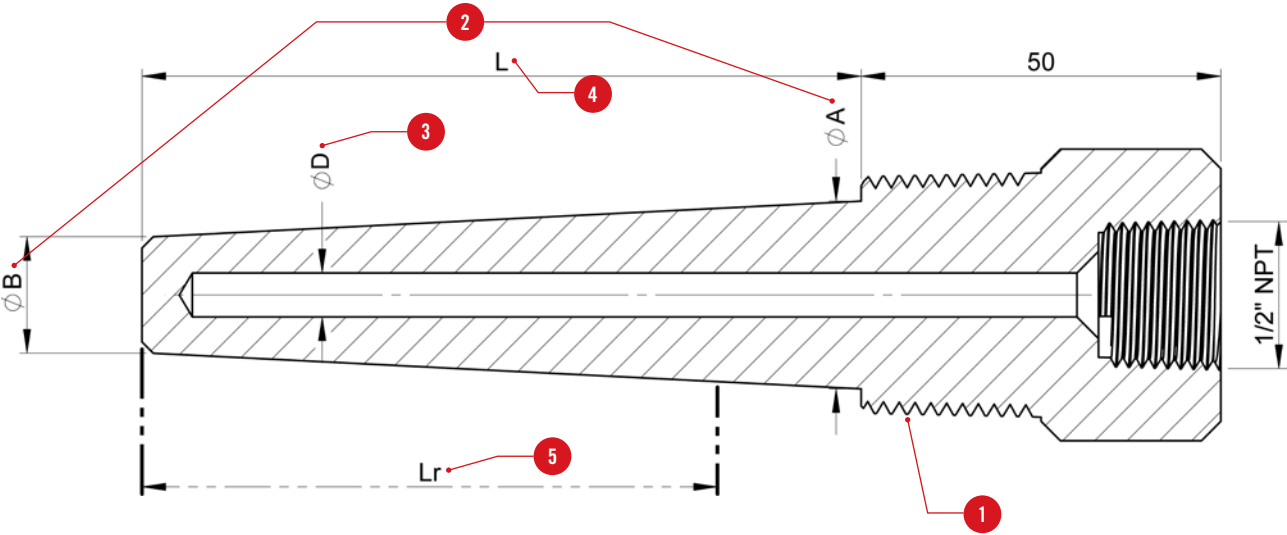
DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	PROCESS CONNECTION	CONE AXB (mm)	Ø BORE	MATERIAL	LENGTH L (mm)	OPTION			
						COATING	NDC	PLUG + CHAIN	TAG
PCV	N10	21	65	AB	400	0000		NON	-
Référence tableau et schéma 1 2 3 4 5 6									
Choix possible 3/4"NPT : N34 1"NPT : N10 G3/4" : G34 G1" : G10 21x16 : 21 26x19 : 26 6.5 : 65 8.5 : 85 304L : AB 316L : AC 321 : AR 50 to 500 mm Without: 0000 Stellite: SXXX L max.: 200mm Halar: Mxxx Tantalum: Txxx (xxx: length in mm from tip) Compliant with the PED directive 2014/68/EU (see table below). YES NO Personalized customer reference									

DIAGRAM (MM)



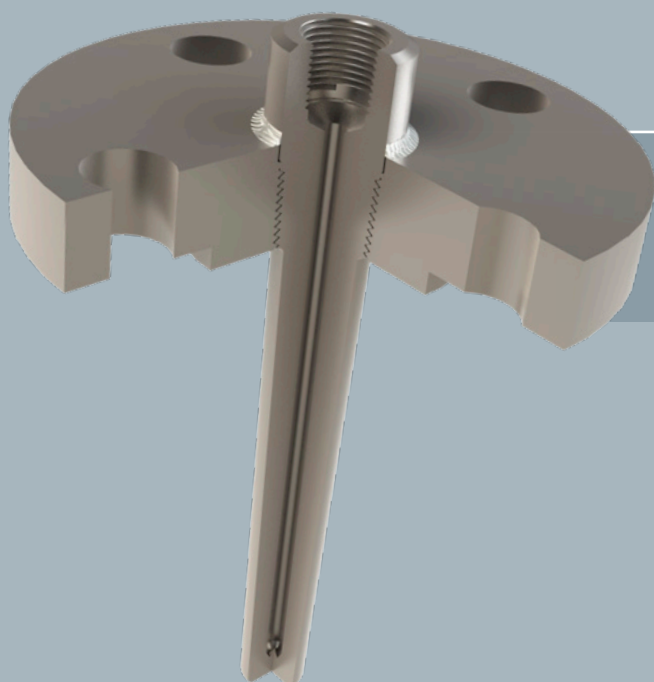
NON-DESTRUCTIVE CONTROLS

				6
X	X	X	For compliance with the PED directive 2014/68/EU	
1			Material certificate: thermowell	
	1		Pressure test (1.5xPN)	
		1	PMI	

For any other configuration, please contact us.

PCB-VS

THERMOWELL


**ASME
B16.5**
**BORED
FROM BAR
STOCK**
TAPERED
FLANGED

DESCRIPTION

Tapered thermowell bored from bar stock, with screw-on welded flange, for use in demanding operating conditions. It offers an excellent mechanical pressure withstand. Compatible with PED 2014/68/EU.

SPECIFICATIONS

Model		PCB-VS
Compliance with standards		ASME B16.5
Instrument connection		1/2"NPT
Process connection	Flange	As per table opposite
Thermowell shape AxB (mm)		21x16 - 26x19
Bore diameter d (mm)		6.5 - 8.5
Material		316L - 321
Length L min/max (mm)		50 to 500 mm
Roughness	Ra	0.8
Non-Destructive Controls for compliance with the PED directive 2014/68/EU	Material certificate	As per EN10204 3.1
	Stress withstand calculation note	As per ASME PTC19.3 TW-2016
	Pressure test	Internal at 1.5xPN for 15' (max. 600 bar) as per ASME Section XIII Division 1 Section UG-99
	Penetrant test	Performed according to EN ISO3452 and interpreted according to EN ISO23277 level 1 or ASME VIII div 1.
	PMI	2 points (flange + thermowell)
Coating		Stellite, thickness 2 mm Halar, thickness 0.1mm Tantalum, thickness 0.5mm

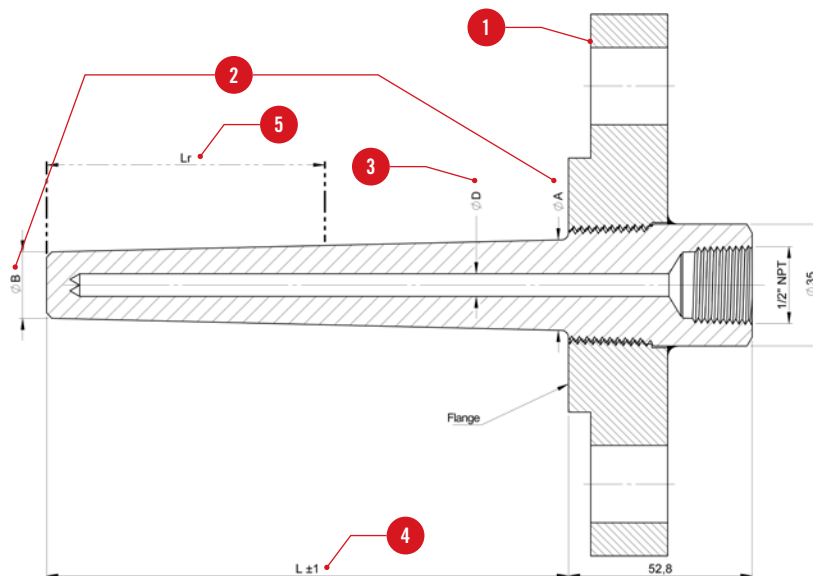
DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	FLANGE	CONE AXB (mm)	Ø (mm)	MATERIAL	LENGTH L (mm)	COATING	OPTION			TAG
PCB-VS	427	21	65	AR	250	S150			NO	-
Reference in table and diagram	1	2	3		4	5	6			
Possible choice	As per table below	21x16 : 21 26x19 : 26	6.5 : 65 8.5 : 85	316L : AC 321 : AR	50 to 500 mm	Without: 0000 Stellite: Sxxx L max.: 200mm Halar: Mxxx Tantalum: Txxx (xxx: length in mm from tip)	In compliance with the PED directive 2014/68/EU (see table opposite).	YES NO	Personalized customer reference	

SCHÉMA (MM)



NON-DESTRUCTIVE CONTROLS

X	X	X	X	For compliance with the PED directive 2014/68/EU
1				Material certificate: flange + thermowell
	1			Weld penetrant test (COFREND 2)
		1		Pressure test (1.5xPN)
			1	PMI

FLANGES

Flange code	Material	EN1092-1		
		DN	PN	Face
400	316L	10/40	40	B1
413	316L	10/40	50	B1

For any other configuration, please contact us.

FLANGES

Flange code	Material	ASME B16.5			EN1759-1		
		DN	Class	Face	DN	PN	Face
217	316L	1"1/2	150	RF	40	20	B1
218	316L	1"1/2	300	RF	40	50	B1
427	316L	1"1/2	600	RF	40	100	B1
411	316L	1"1/2	600	RJ	40	100	B1
245	321	1"1/2	600	RJ	40	100	B1
540	321	1"1/2	150	RF	40	20	B1
481	321	1"1/2	300	RF	40	50	B1
482	321	1"1/2	600	RF	40	100	B1
219	316L	2"	150	RF	50	20	B1
409	316L	2"	300	RF	50	50	B1
448	316L	2"	600	RF	50	100	B1
238	316L	2"	600	RJ	50	100	
477	316L	2"	1500	RJ	50	250	
562	321	2"	150	RF	50	20	B1
269	321	2"	300	RF	50	50	B1
519	321	2"	600	RF	50	100	B1
563	321	2"	600	RJ	50	100	
564	321	2"	1500	RJ	50	250	

PCB-2S

THERMOWELL


**ASME
B16.5**
**BORED
FROM BAR
STOCK**
TAPERED
FLANGED

DESCRIPTION

Tapered thermowell bored from bar stock, with flange welded on both sides, for use in demanding operating conditions. It offers an excellent mechanical pressure withstand. Compatible with PED 2014/68/EU.

SPECIFICATIONS

Model		PCB-2S
Compliance with standards		ASME B16.5
Instrument connection		1/2"NPT
Process connection	Flange	As per table opposite
Thermowell shape AxB (mm)		21x16 - 26x19
Bore diameter d (mm)		6.5 - 8.5
Material		316L - 321
Length L min/max (mm)		50 to 500 mm
Roughness	Ra	0.8
Non-Destructive Controls for compliance with the PED directive 2014/68/EU	Material certificate	As per EN10204 3.1
	Stress withstand calculation note	As per ASME PTC19.3 TW-2016
	Pressure test	Internal at 1.5xPN for 15' (max. 600 bar) as per ASME Section XIII Division 1 Section UG-99
	Penetrant test	Performed according to EN ISO3452 and interpreted according to EN ISO23277 level 1 or ASME VIII div 1.
	PMI	2 points (flange + thermowell)
Coating		Stellite, thickness 2 mm Halar, thickness 0.1mm Tantalum, thickness 0.5mm

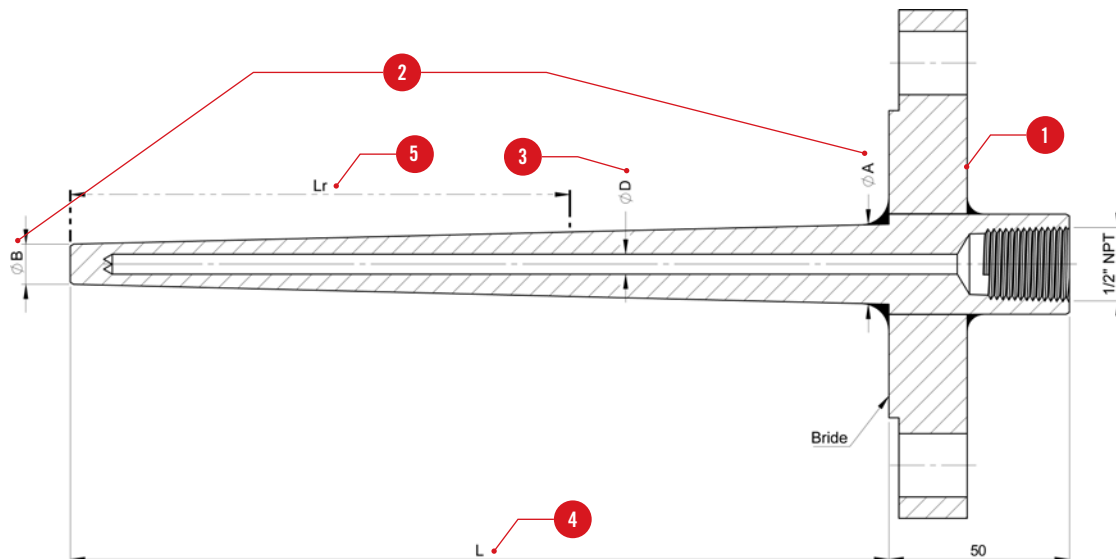
DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	FLANGE	CONE AXB (mm)	Ø (mm)	MATERIAL	LENGTH L (mm)	COATING	OPTION	PLUG + CHAIN	TAG
PCB-VS	427	21	65	AR	250	S150		NO	-
Reference in table and diagram	1	2	3		4	5	6		
Possible choice	As per table below	21x16 : 21 26x19 : 26	6.5 : 65 8.5 : 85	316L : AC 321 : AR	50 to 500 mm	Without: 0000 Stellite: SXXX L max.: 200mm Halar: Mxxx Tantalum: Txxx (xxx: length in mm from tip)	In compliance with the PED directive 2014/68/EU (see table opposite).	YES NO	Personalized customer reference

DIAGRAM (MM)



FLANGES

Flange code	Material	ASME B16.5			EN1759-1		
		DN	Class	Face	DN	PN	Face
217	316L	1"1/2	150	RF	40	20	B1
218	316L	1"1/2	300	RF	40	50	B1
427	316L	1"1/2	600	RF	40	100	B1
411	316L	1"1/2	600	RJ	40	100	B1
245	321	1"1/2	600	RJ	40	100	B1
540	321	1"1/2	150	RF	40	20	B1
481	321	1"1/2	300	RF	40	50	B1
482	321	1"1/2	600	RF	40	100	B1
219	316L	2"	150	RF	50	20	B1
409	316L	2"	300	RF	50	50	B1
448	316L	2"	600	RF	50	100	B1
238	316L	2"	600	RJ	50	100	
562	321	2"	150	RF	50	20	B1
269	321	2"	300	RF	50	50	B1
519	321	2"	600	RF	50	100	B1
563	321	2"	600	RJ	50	100	

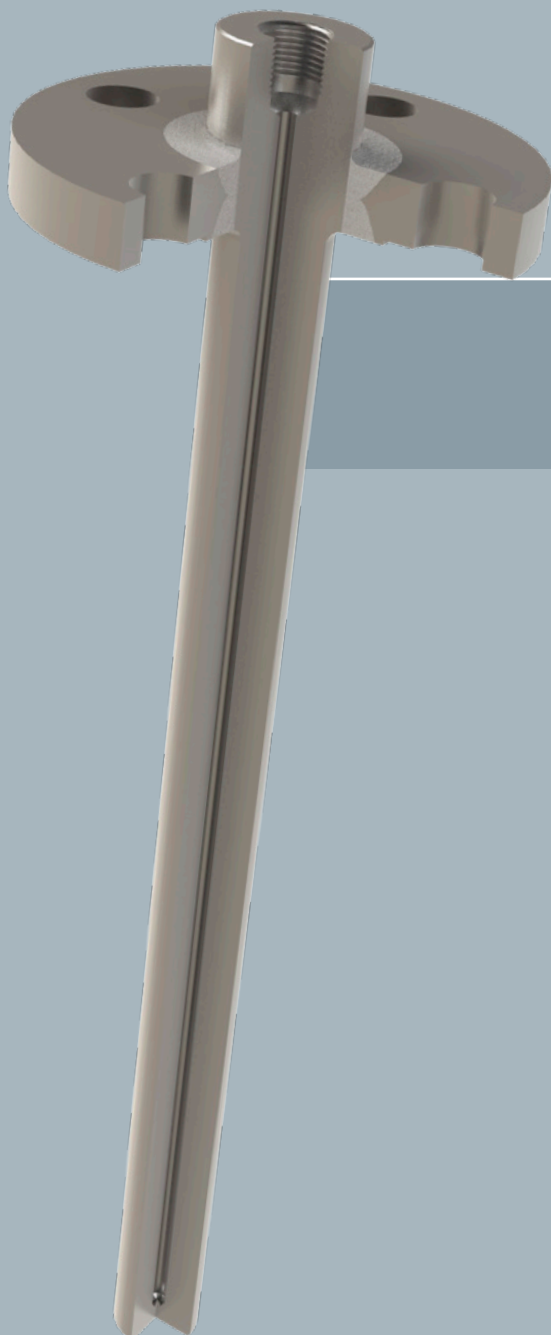
NON-DESTRUCTIVE CONTROLS

X	X	X	X	X	For compliance with the PED directive 2014/68/EU
1					Material certificate: flange + thermowell
	1				Calculation note as per ASME PTC19.3 TW-2016
		1			Weld penetrant test (COFREND 2)
			1		Pressure test (1.5xPN)
				1	PMI

FLANGES

Flange code	Material	EN1092-1		
		DN	PN	Face
400	316L	10/40	40	B1
413	316L	10/40	50	B1

For any other configuration, please contact us.



PCB-PP

THERMOWELL

**ASME
B16.5**
**BORED
FROM BAR
STOCK**
TAPERED
FLANGED

DESCRIPTION

Tapered thermowell bored from bar stock with full-penetration welded flange, for use in demanding operating conditions. It offers an excellent mechanical pressure withstand. Compatible with PED 2014/68/EU.

SPECIFICATIONS

Model		PCB-PP
Compliance with standards		ASME B16.5
Instrument connection		1/2"NPT
Process connection	Flange	As per table opposite
Thermowell shape AxB (mm)		21x16 - 26x19 - 31x26 - 36x33
Bore diameter d (mm)		6.5 - 8.5
Material		316L - 321
Length L min/max (mm)		50 to 500 mm
Roughness	Ra	0.8
Non-Destructive Controls for compliance with the PED directive 2014/68/EU	Material certificate	As per EN10204 3.1
	Stress withstand calculation note	As per ASME PTC19.3 TW-2016
	Pressure test	Internal at 1.5xPN for 15' (max. 600 bar) as per ASME Section XIII Division 1 Section UG-99
	Penetrant test	Root and final, internal and external, performed as per EN ISO3452 and interpreted as per EN ISO23277 level 1 or ASME VIII div 1 for auto TIG, level 2 for manual TIG.
	PMI	3 points (flange, thermowell and weld)
Coating		Stellite, thickness 2 mm Halar, thickness 0.1mm Tantalum, thickness 0.5mm

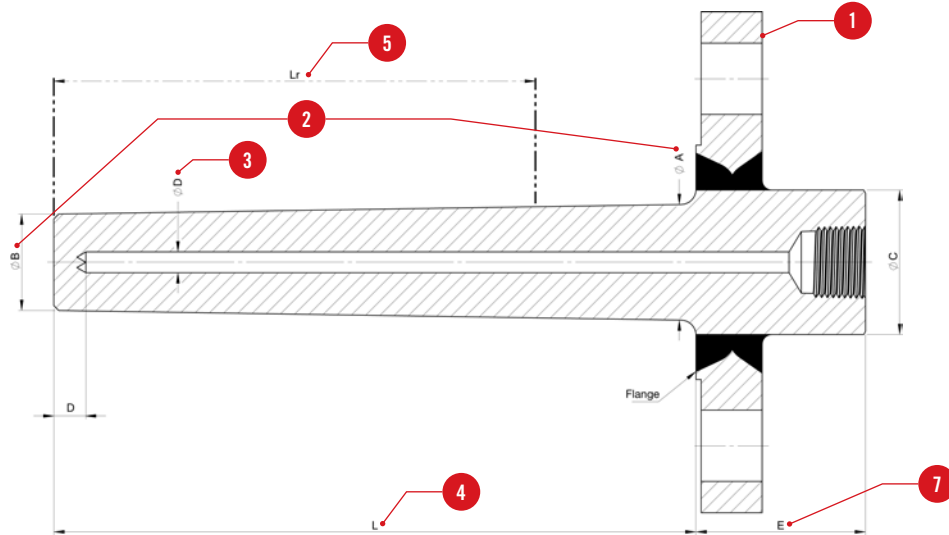
DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	FLANGE	CONE AXB (mm)	Ø (mm)	MATERIAL	LENGTH L (mm)	COATING	OPTION			TAG
PCB-PP	245	26	65	AC	700	S200			NO	-
Reference in table and diagram	1	2	3		4	5	6			
Possible choice	As per table below	21x16 : 21 26x19 : 26 31x26 : 31 36x33 : 36	6.5 : 65 8.5 : 85	316L : AC 321 : AR	50 to 500 mm	Without: 0000 Stellite: SXXX L max.: 200mm Halar: Mxxx Tantalum: Txxx (xxx: length in mm from tip)	In compliance with the PED directive 2014/68/EU (see table opposite).	YES NO	Personalized customer reference	

DIAGRAM (MM)



HEAD AND THERMOWELL DEPTH

AxB (mm)	Diam. C (mm)	D (mm)
21x16	30	9.5
26x19	35	9.5
31x26	40	10
36x33	45	13.5

NON-DESTRUCTIVE CONTROLS

X	X	X	X	X	For compliance with the PED directive 2014/68/EU
1					Material certificate: flange + thermowell
	1				Calculation note as per ASME PTC19.3 TW-2016
		1			Weld penetrant test (COFREND 2)
			1		Pressure test (1.5xPN)
				1	PMI

DIMENSION LINKED TO FLANGE

Flange Class	E (mm)
≤ 600	52.8
>600	80

FLANGES

Flange code	Material	ASME B16.5			EN1759-1		
		DN	Class	Face	DN	PN	Face
217	316L	1"1/2	150	RF	40	20	B1
218	316L	1"1/2	300	RF	40	50	B1
427	316L	1"1/2	600	RF	40	100	B1
411	316L	1"1/2	600	RJ	40	100	B1
245	321	1"1/2	600	RJ	40	100	B1
540	321	1"1/2	150	RF	40	20	B1
481	321	1"1/2	300	RF	40	50	B1
482	321	1"1/2	600	RF	40	100	B1
219	316L	2"	150	RF	50	20	B1
409	316L	2"	300	RF	50	50	B1
448	316L	2"	600	RF	50	100	B1
238	316L	2"	600	RJ	50	100	
477	316L	2"	1500	RJ	50	250	
562	321	2"	150	RF	50	20	B1
269	321	2"	300	RF	50	50	B1
519	321	2"	600	RF	50	100	B1
563	321	2"	600	RJ	50	100	
564	321	2"	1500	RJ	50	250	

For any other configuration, please contact us.

PCB-F

THERMOWELL


**ASME
B16.5**
FORGED
TAPERED
FLANGED

DESCRIPTION

Tapered thermowell bored from bar stock with flange, made from forging interstage, for use in very demanding operating conditions. It offers an excellent mechanical pressure withstand. Compatible with PED 2014/68/EU.

SPECIFICATIONS

Model		PCB-F
Compliance with standards		ASME B16.5
Instrument connection		1/2"NPT
Process connection	Flange	As per table opposite
Thermowell shape AxB (mm)		26x19 - 31x26 - 36x33 - 41x36
Bore diameter d (mm)		6.5 - 8.5
Material		316L - 321
Length L min/max (mm)		50 to 500 mm
Roughness	Ra	0.8
Non-Destructive Controls for compliance with the PED directive 2014/68/EU	Material certificate	As per EN10204 3.1
	Stress withstand calculation note	As per ASME PTC19.3 TW-2016
	Pressure test	Internal at 1.5xPN for 15' (max. 600 bar) as per ASME Section XIII Division 1 Section UG-99
	PMI	1 point (forged bar)
Coating		Stellite, thickness 2 mm Halar, thickness 0.1mm Tantalum, thickness 0.5mm

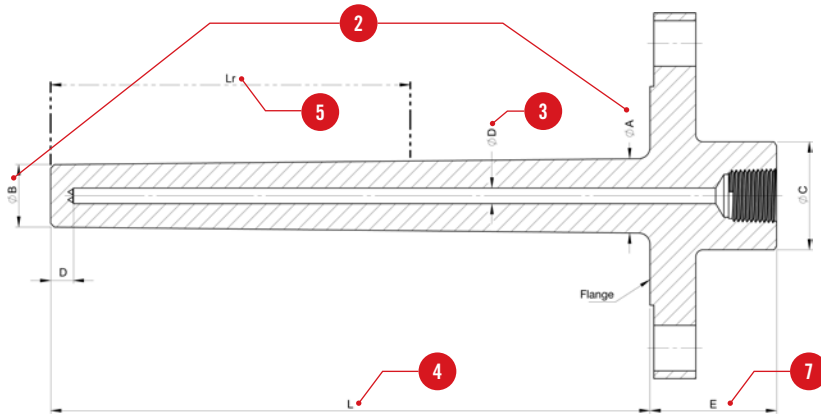
DESIGN YOUR THERMOWELL

CONFIGURATOR CODE

Parameters to be indicated when ordering. Example:

MODEL	FLANGE	CONE AxB (mm)	Ø (mm)	MATERIAL	LENGTH L (mm)	COATING	OPTION	NDC	PLUG + CHAIN	TAG
PCB-F	219	26	65	AC	400	M200			NO	-
Reference in table and diagram	1	2	3		4	5	6			
Possible choice	As per table below	26x19 : 26 31x26 : 31 36x33 : 36 41x36 : 41	6.5 : 65 8.5 : 85	316L : AC 321 : AR	50 to 500 mm	Without: 0000 Stellite: SXXX L max.: 200mm Halar: Mxxx Tantalum: Txxx (xxx: length in mm from tip)	In compliance with the PED directive 2014/68/EU (see table opposite).	YES NO	Personalized customer reference	

DIAGRAM (MM)



FLANGES

Flange code	Material	ASME B16.5			EN1759-1		
		DN	Class	Face	DN	PN	Face
217	316L	1"1/2	150	RF	40	20	B1
218	316L	1"1/2	300	RF	40	50	B1
427	316L	1"1/2	600	RF	40	100	B1
411	316L	1"1/2	600	RJ	40	100	
463	316L	1"1/2	1500	RJ	40	250	
540	321	1"1/2	150	RF	40	20	B1
481	321	1"1/2	300	RF	40	50	B1
482	321	1"1/2	600	RF	40	100	B1
245	321	1"1/2	600	RJ	40	100	
541	321	1"1/2	1500	RJ	40	250	
219	316L	2"	150	RF	50	20	B1
409	316L	2"	300	RF	50	50	B1
448	316L	2"	600	RF	50	100	B1
238	316L	2"	600	RJ	50	100	
477	316L	2"	1500	RJ	50	250	
502	316L	2"	2500	RJ	50	420	
562	321	2"	150	RF	50	20	B1
269	321	2"	300	RF	50	50	B1
519	321	2"	600	RF	50	100	B1
563	321	2"	600	RJ	50	100	
564	321	2"	1500	RJ	50	250	
565	321	2"	2500	RJ	50	420	

HEAD AND THERMOWELL DEPTH

DN	AxB (mm)	C (mm)	D (mm)
1"1/2	26x19	35	9.5
1"1/2 - 2"	31x26	40	10
	36x33	45	13.5
2"	41x36	50	15

DIMENSION LINKED TO FLANGE

Flange Class	E (mm)
≤ 600	52.8
>600	80

NON-DESTRUCTIVE CONTROLS

X	X	X	X	For compliance with the PED directive 2014/68/EU
1				Material certificate: flange + thermowell
	1			Calculation note as per ASME PTC19.3 TW-2016
		1		Pressure test (1.5xPN)
			1	PMI

For any other configuration, please contact us.



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