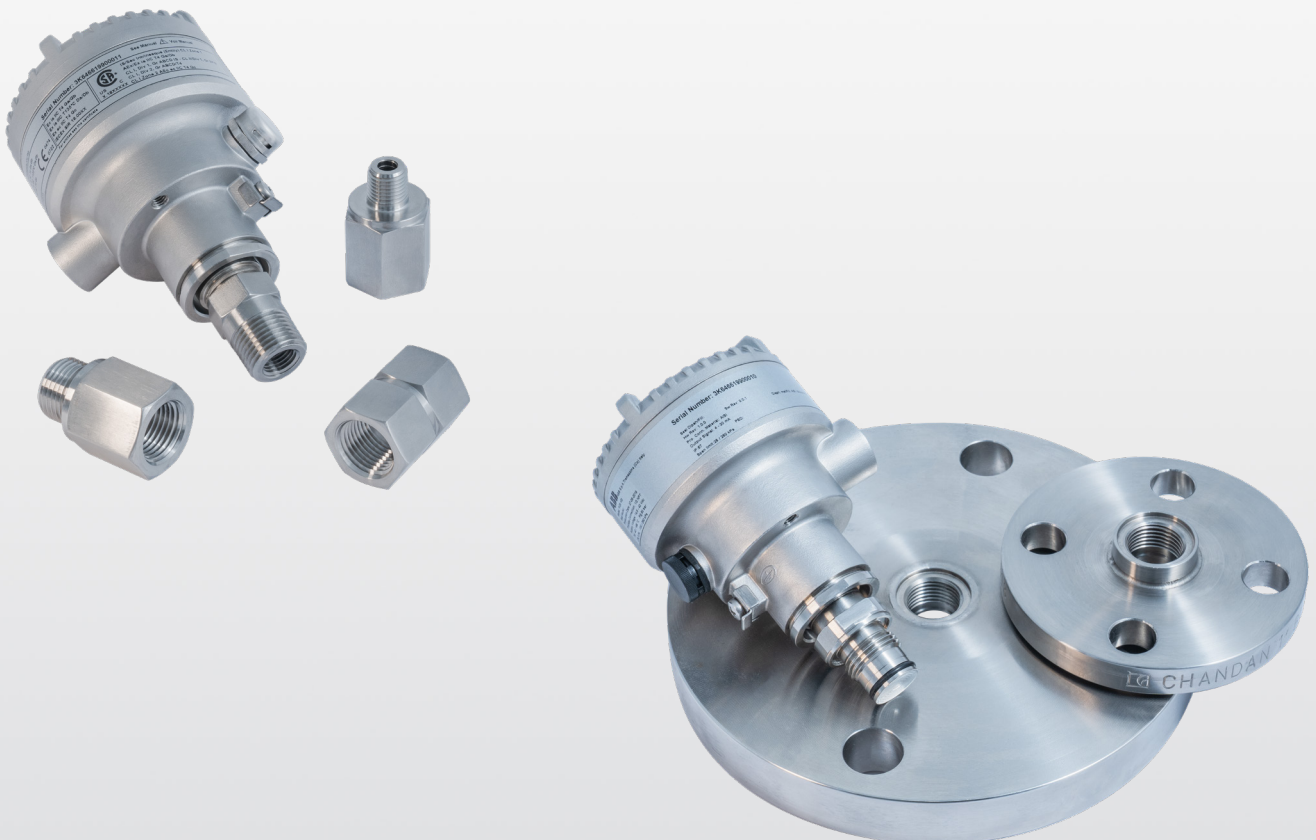


ABB MEASUREMENT & ANALYTICS | DATA SHEET

# PZT and PZF and non-configurable items

## Threaded and flanged adapters and accessories



# Measurement made easy

Engineered solutions for all applications

## **Stainless steel construction**

- Optimized for use in harsh ambient conditions
- Extremely robust

## **Wide selection of versions**

- allows to meet application specific requirements

## Specifications

Please refer to the ordering information for variants availability

### Pressure limits

Flange to EN 1092-1	AISI 316 L ss flange @ 20 °C
PN 16	16 bar
PN 40	40 bar

Flange to ASME B16.5	AISI 316 L ss flange @ 100 °F (38 °C)
Class 150	275 psi
Class 300	720 psi

## Materials

### Adapters

AISI 316 ss / AISI 316 L ss (dual grade)

### Flanges

AISI 316 L ss

## Process connections

### Adapters

1/2 in - 14 NPT female, 1/2 in G male, 1 in G male,  
1 in - 11.5 NPT female, 1 in - 11.5 NPT male, M20 x 1.5 male

### Flanges

1 in, 2 in, 3 in to ASME; DN25, DN50, DN80 to EN 1092-1.

## Weight

- Adapters 100 to 900 g (0.22 to 2 lb) approx.
- Flanges 950 to 7000 g (2.1 to 15.6 lb) approx.

## Packaging

Cardboard box

### Mounting dimensions

(not design data) - dimensions in mm (inch)

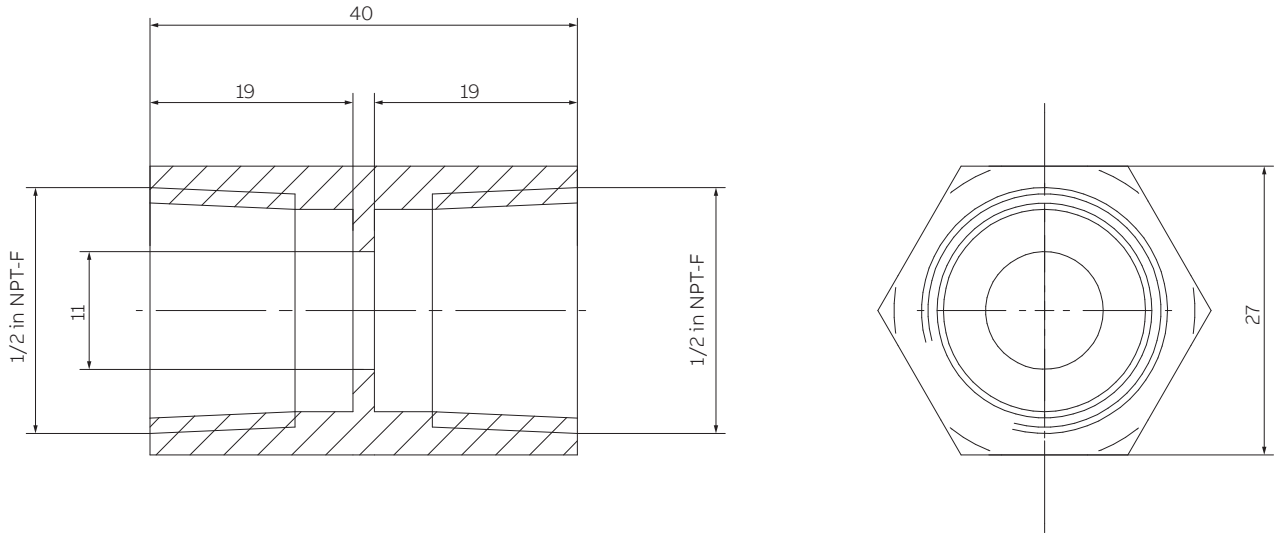


Figure 1 Straight adapter to 1/2 in NPT female process connection

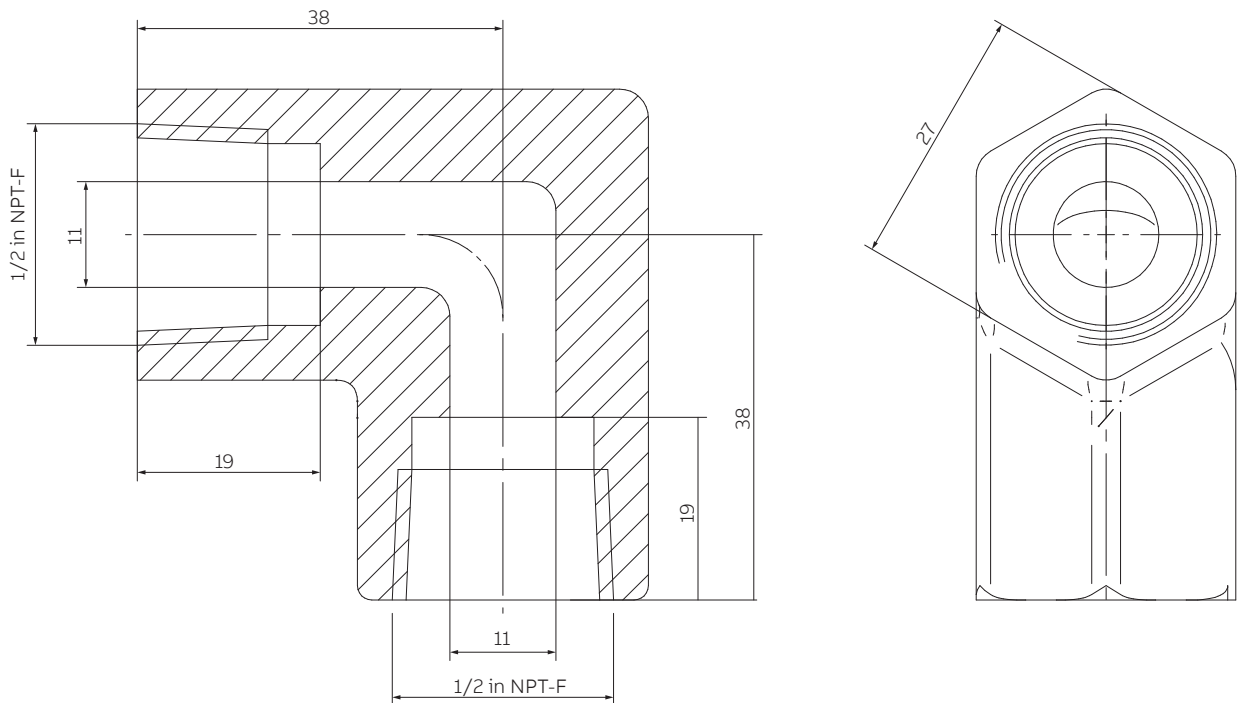


Figure 2 Angle adapter to 1/2 in NPT female process connection

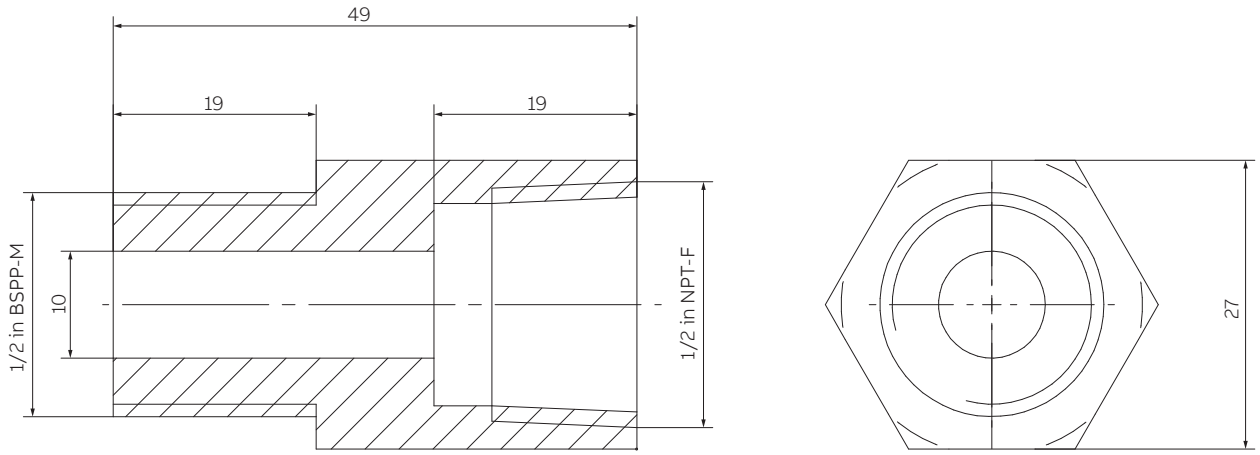


Figure 3 Straight adapter to 1/2 in G male process connection

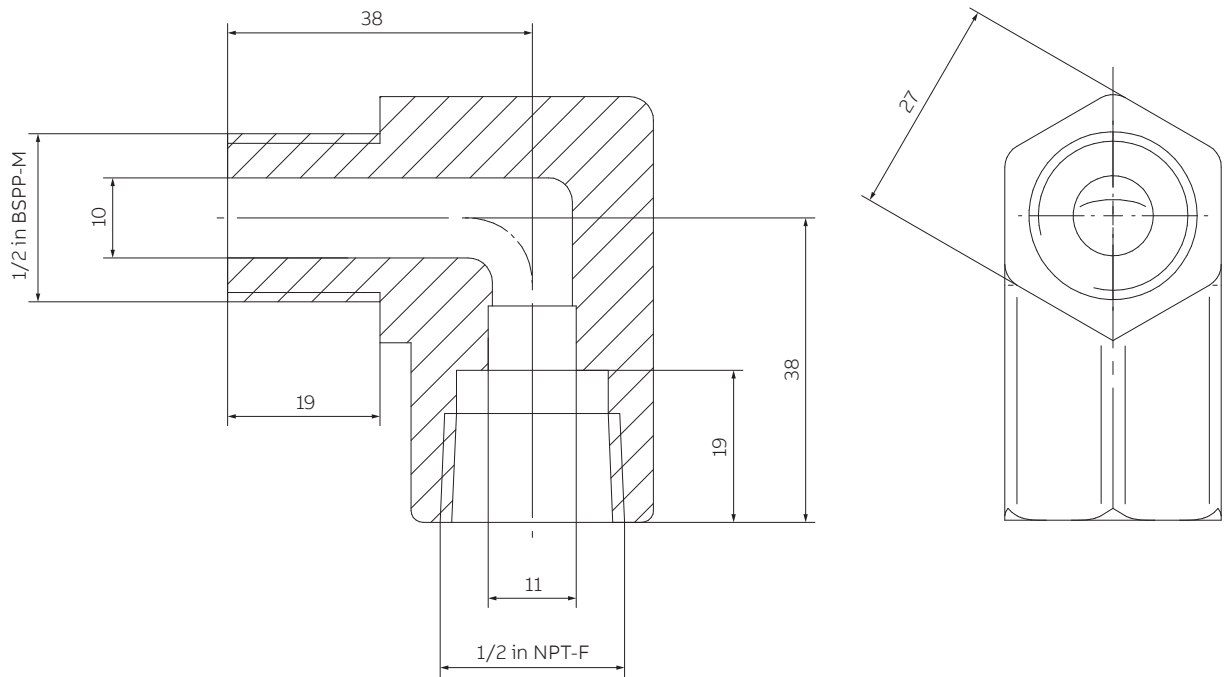


Figure 4 Angle adapter to 1/2 in G male process connection

### ...Mounting dimensions

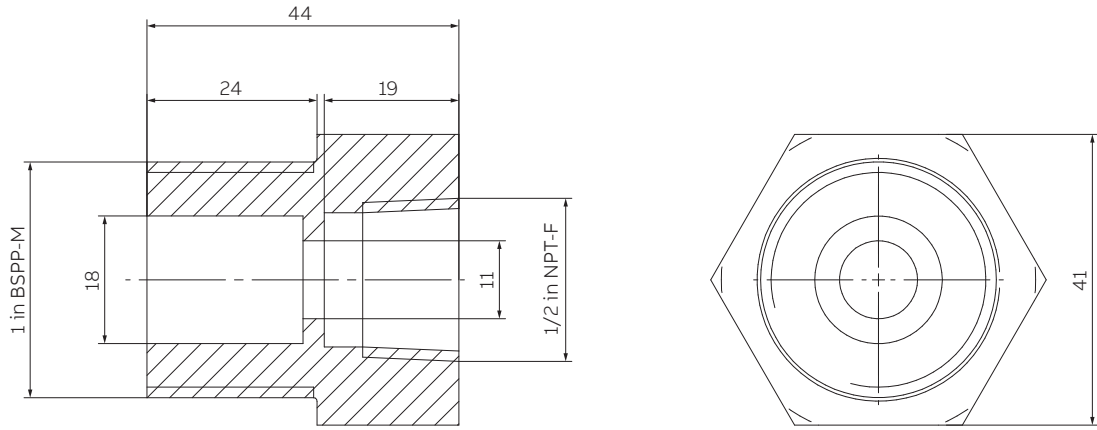


Figure 5 Straight adapter to 1 in G male process connection

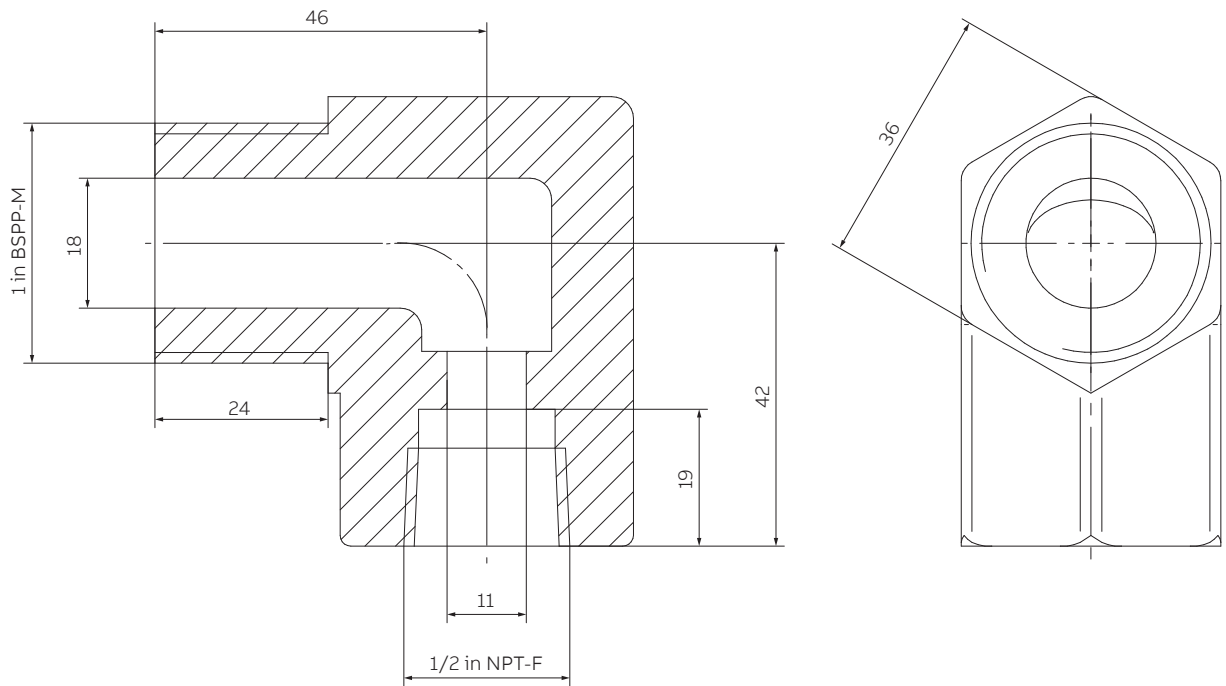


Figure 6 Angle adapter to 1 in G male process connection

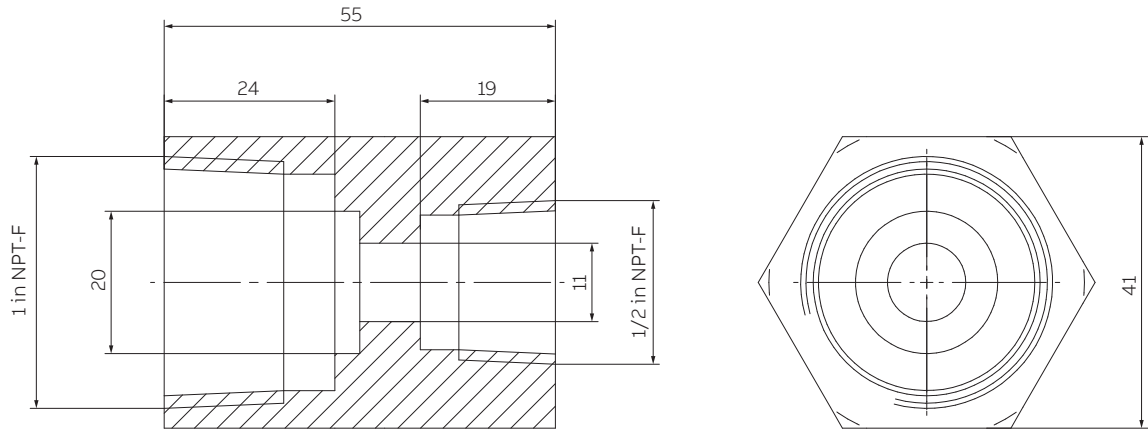


Figure 7

Figure 8 Straight adapter to 1 in NPT female process connection

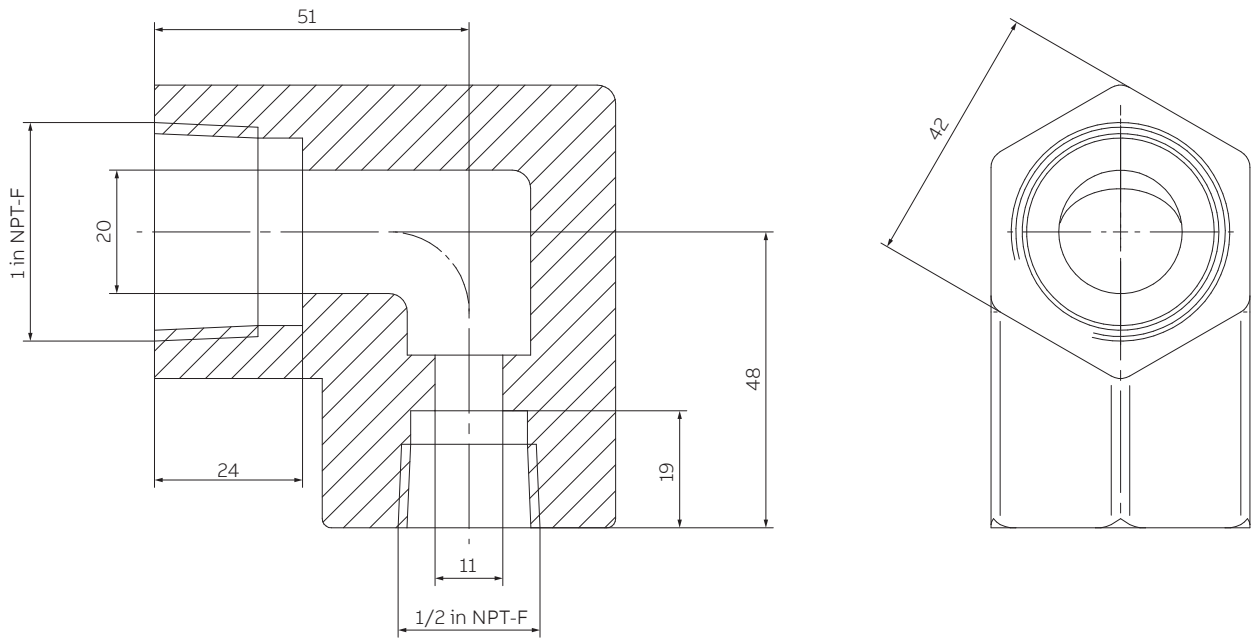


Figure 9 Angle adapter to 1 in NPT female process connection

### ...Mounting dimensions

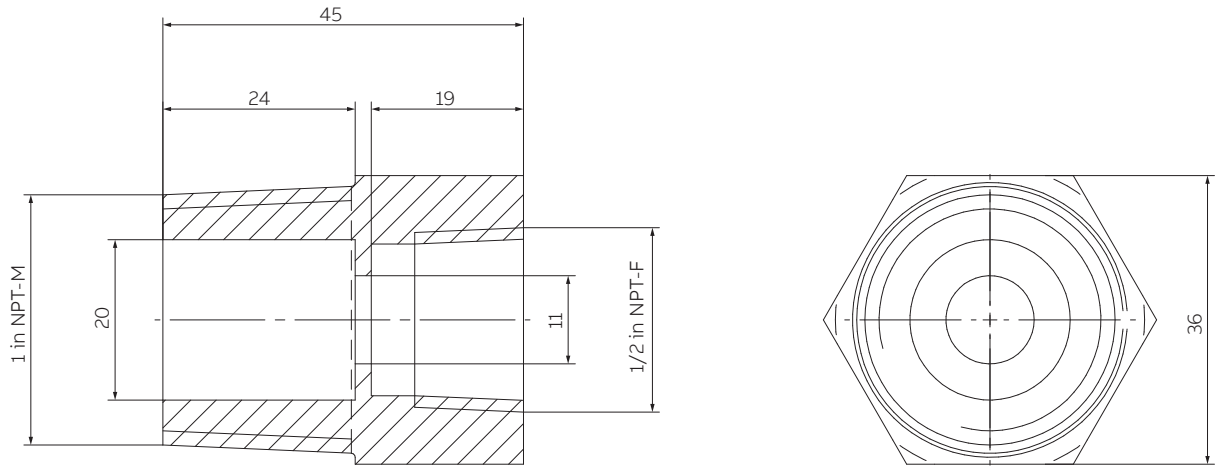


Figure 10 Straight adapter to 1 in NPT male process connection

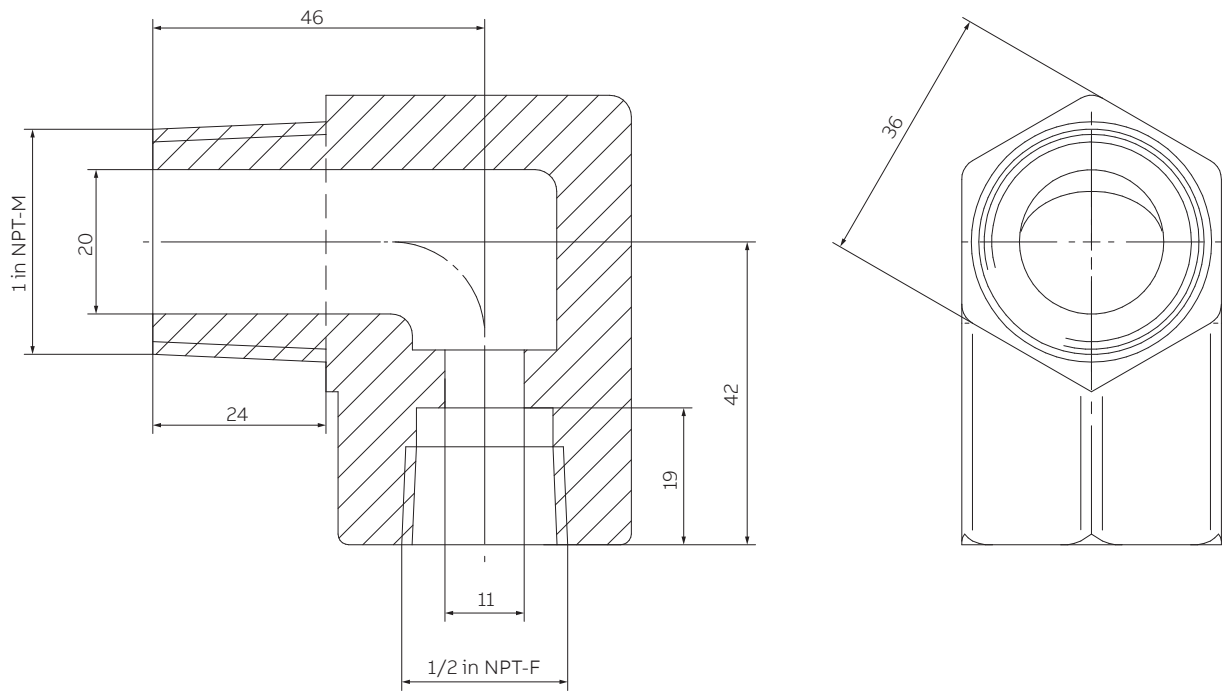


Figure 11 Angle adapter to 1 in NPT male process connection



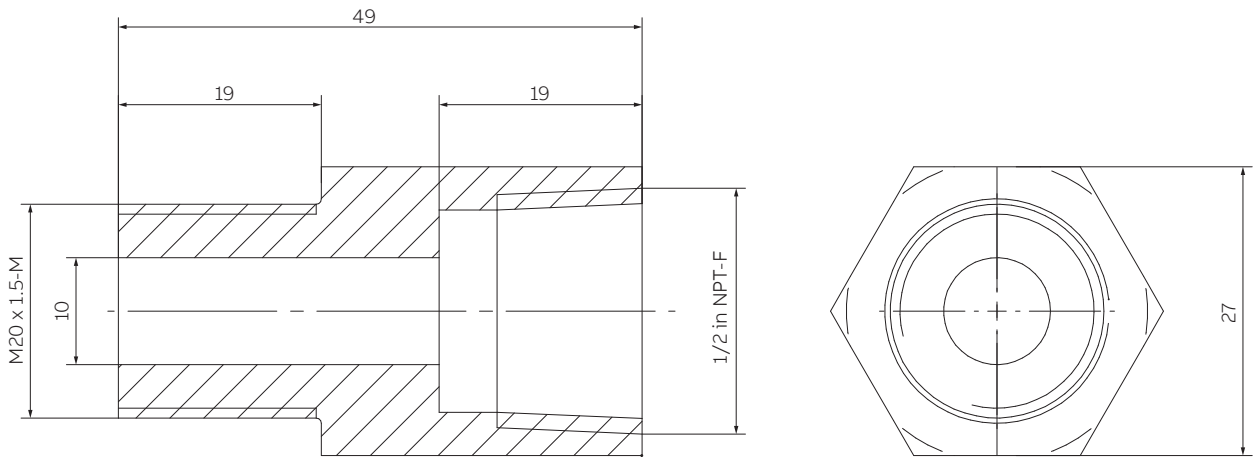


Figure 12 Straight adapter to M20 x 1.5 male process connection

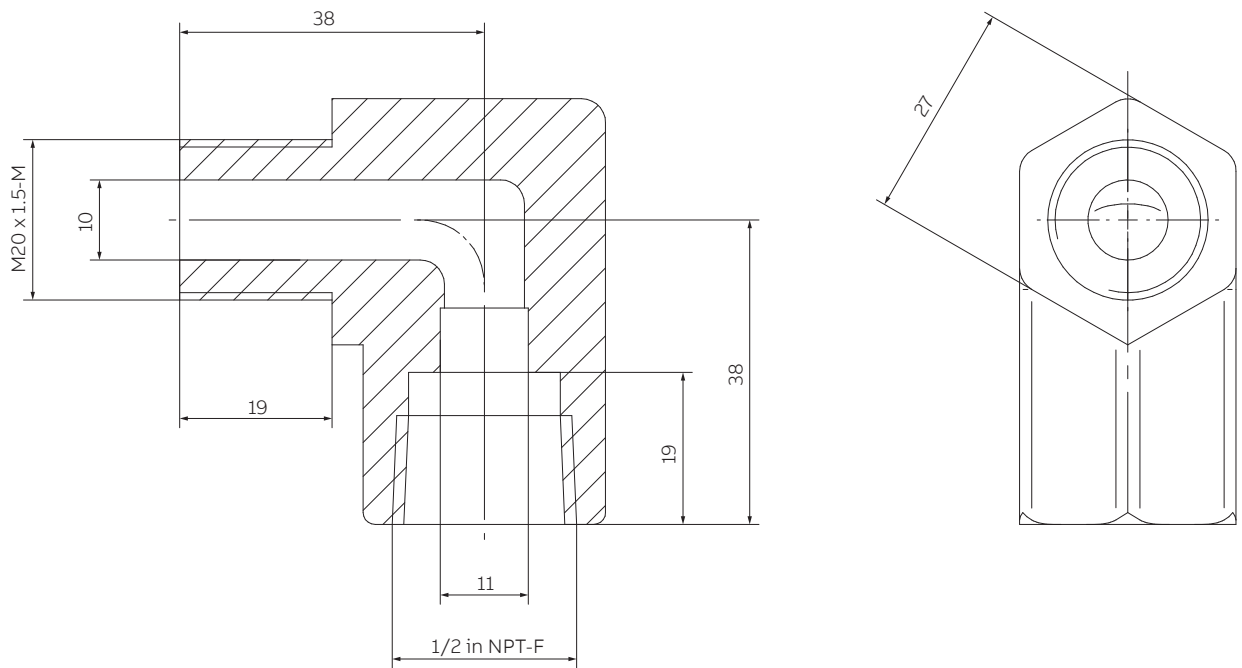
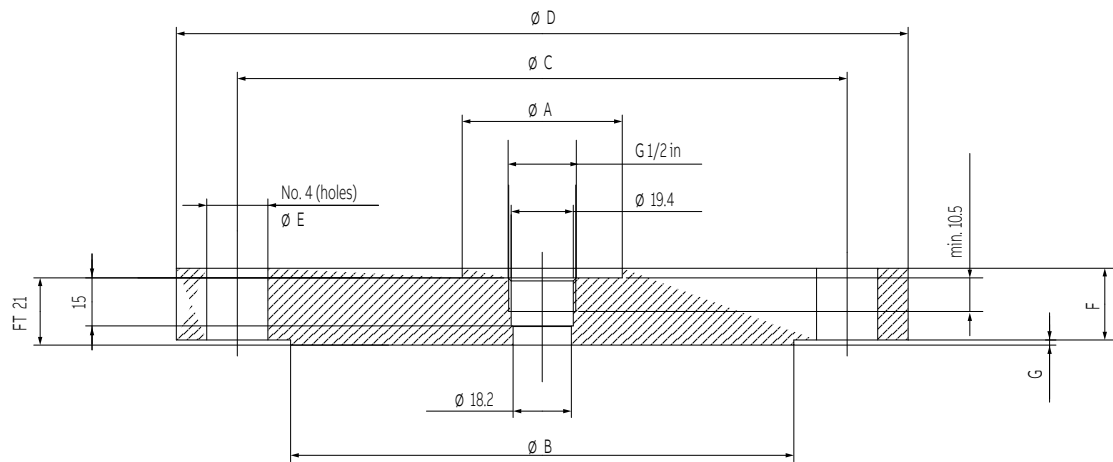


Figure 13 Angle adapter to M20 x 1.5 male process connection

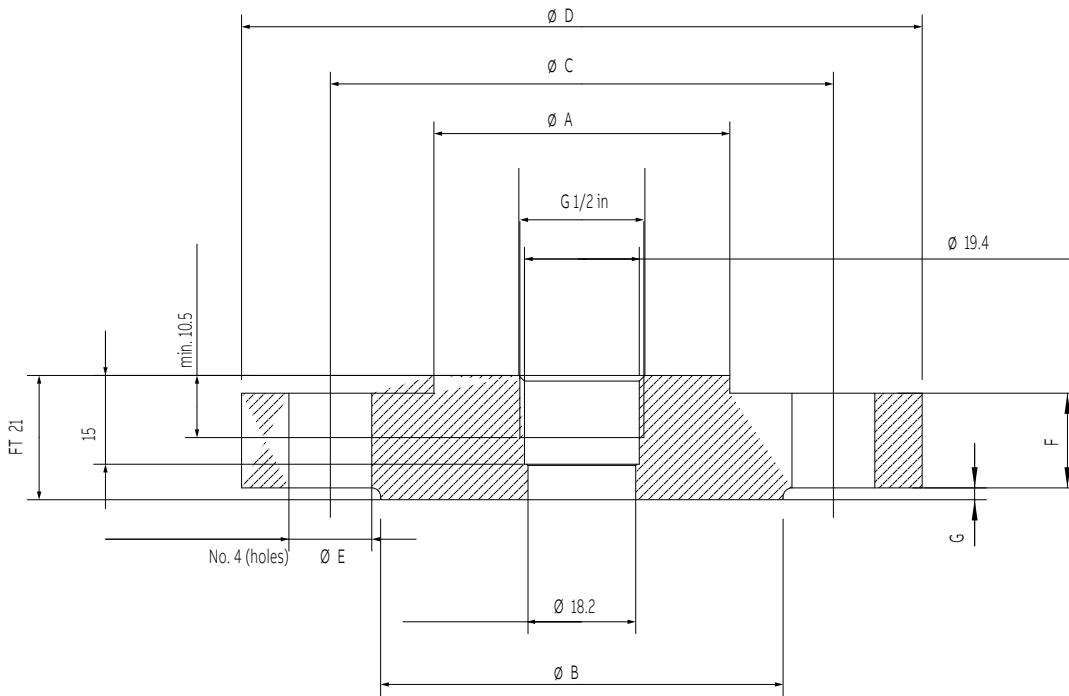
## ...Mounting dimensions



Dimensions mm (inches) for ASME flange connection for PGS100/PAS100

Size/Rating	A (dia)	B (dia)	C (dia)	D (dia)	E (dia)	F	G	N° of holes
1 in ASME CL 150	50 (1.97)	50.8 (2)	79.2 (3.12)	108 (4.25)	15.9 (0.63)	12.7 (0.5)	1.6 (0.063)	4
1 in ASME CL 300	50 (1.97)	50.8 (2)	88.9 (3.5)	124 (4.88)	19.1 (0.75)	15.7 (0.62)	1.6 (0.063)	4
2 in ASME CL 150	50 (1.97)	91.9 (3.62)	120.7 (4.75)	152.4 (6)	19.1 (0.75)	17.5 (0.69)	1.6 (0.063)	4
2 in ASME CL 300	50 (1.97)	91.9 (3.62)	127 (5)	165.1 (6.5)	19.1 (0.75)	20.6 (0.81)	1.6 (0.063)	4
3 in ASME CL 150	50 (1.97)	127 (5)	152.4 (6)	190.5 (7.5)	19.1 (0.75)	22.4 (0.88)	1.6 (0.063)	4
3 in ASME CL 300	50 (1.97)	127 (5)	168.1 (6.62)	209.6 (8.25)	22.2 (0.87)	26.9 (1.06)	1.6 (0.063)	4

Figure 14 ASME flange connection for PGS100/PAS100



Dimensions mm (inches) for EN flange connection for PGS100/PAS100								
Size/Rating	A (dia)	B (dia)	C (dia)	D (dia)	E (dia)	F	G	N° of holes
DN 25 EN 1092-1 PN 16	50 (1.97)	68 (2.68)	85 (3.35)	115 (4.53)	14 (0.55)	16 (0.63)	2 (0.078)	4
DN 25 EN 1092-1 PN 40	50 (1.97)	68 (2.68)	85 (3.35)	115 (4.53)	14 (0.55)	16 (0.63)	2 (0.078)	4
DN 50 EN 1092-1 PN 40	50 (1.97)	102 (4.02)	125 (4.92)	165 (6.50)	18 (0.71)	17 (0.67)	3 (0.118)	4
DN 80 EN 1092-1 PN 40	50 (1.97)	138 (5.43)	160 (6.30)	200 (7.87)	18 (0.71)	24 (0.94)	3 (0.118)	4

Figure 15 EN 1092-1 flange connection for PGS100/PAS100

## Ordering Information

### Accessory ordering information for model PZT threaded adapters and PZF flanged adapters

Select one character or set of characters from each category and specify complete additional catalog number.

BASE MODEL - 1st to 3rd characters	PZT	X	X	X
<b>Screwed process connection adapter (suitable with process connection size code "B" at 13th character of PxS100)</b>				
<b>Connection thread to transmitter - 4th character</b>				
1/2 in-14 NPT female		2		
<b>Process connection thread to process - 5th character</b>				
1/2 in - 14 NPT female			A	
1/2 in G male			B	
1 in G male			C	
1 in - 11.5 NPT female			D	
1 in - 11.5 NPT male			E	
M20 x 1.5 male			F	
<b>Type of connection (orientation) - 6th character</b>				
Straight				S
90° angle				A

BASE MODEL - 1st to 3rd characters	PZF	X	XX	XX	XX
<b>Flanged process connection adapter (suitable with process connection size code "P" at 13th character of PxS100)</b>					
<b>Connection to transmitter - 4th character</b>					
Screwed to front bonded connection		S			
<b>Flanged connection to process - 5th and 6th characters</b>					
ASME 1 in			A1		
ASME 2 in			A2		
ASME 3 in			A3		
EN DN 25			D2		
EN DN 50			D5		
EN DN 80			D8		
<b>Flange rating - 7th character</b>					
ASME Class 150	(Note 1)			A	
ASME Class 300	(Note 1)			B	
EN PN 16	(Notes 2, 3)			C	
EN PN 40	(Note 2)			D	
<b>Flange form/seat finish - 8th character</b>					
Raised face (RF) serrated finish	(Note 1)				1
Form B1 to EN 1092-1	(Note 2)				2

Note 1: Not available with EN flanged connection code Dx

Note 2: Not available with ASME flanged connection code Ax

Note 3: Not available with DN 50 and DN 80 flanged connection code D5 and D8

**Accessory ordering information for non-configurable items**

Select required item(s) according to application needs

Description	Part number
M16 plastic cable gland	9287356
M16 nickel-plated brass Ex cable gland	9287600
Harting HAN 8D straight connector	3KXP002920U0100
M12 x 1 connector	3KXP002919U0100
Welding connection for PGS/PAS100 front bonded version	284903

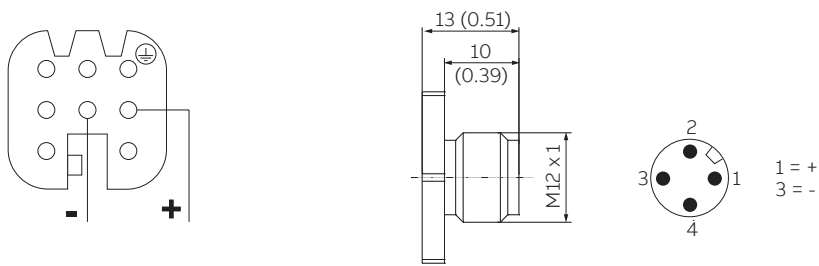


Figure 16 Pin layout of Harting HAN 8D (socket view) and M12 x 1 connector



## Notes



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