

Product Introduction

ONEhalf20 Melt Pressure Transducers incorporate a filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750°F. The electronics of each transducer is a Wheatstone Bridge - bonded strain gauge design insuring high accuracy, reliability and repeatability.

ONEhalf20 Melt Pressure Transducers are available in two distinct styles. The CT style melt pressure transducer, is the classic melt pressure transducer design. The CT style melt pressure transducer comprises a 6" rigid stem, along with 18" flexible capillary, for optimal thermal isolation. The RT style melt pressure transducer, has only a 6" rigid stem, and is a rigid stem version of the classic melt pressure transducer.

Features

- wide variety of pressure ranges
- significant price benefit over competitor's models
- direct replacement for competitor's models utilizing the Bendix 6 pin bayonet style connector
- all welded all stainless steel sealed construction
- two accuracy grades available 0.5% standard accuracy, or 0.25% optional
- standard 3.33 mV/V output



General Specifications

Mechanical

Pressure Ranges: 0-1,500 psi to 0-30,000 psi
metric ranges available
Mounting: 1/2-20 UNF thread
Mounting Torque: 500 inch pounds maximum
Diaphragm: 15-5PH stainless steel
Overload Capacity: 2 times FSO
Temperatures: diaphragm 750°F
electronics 225°F
Accuracy: 0.5% FSO
Repeatability: better than 0.15% FSO
Zero Balance: +/- 10% FSO

Electrical

Type: bonded strain gauge,
4 leg Wheatstone Bridge
Bridge Resistance: 350 Ohm +/- 5%
Connector: 6 pin Bendix style bayonet
Output: 3.33 mV/Volt
Excitation Voltage: 10 Vdc - recommended
Calibration: internal 80% FSO
Insulation: 1,000 Megohms at 50 Vdc



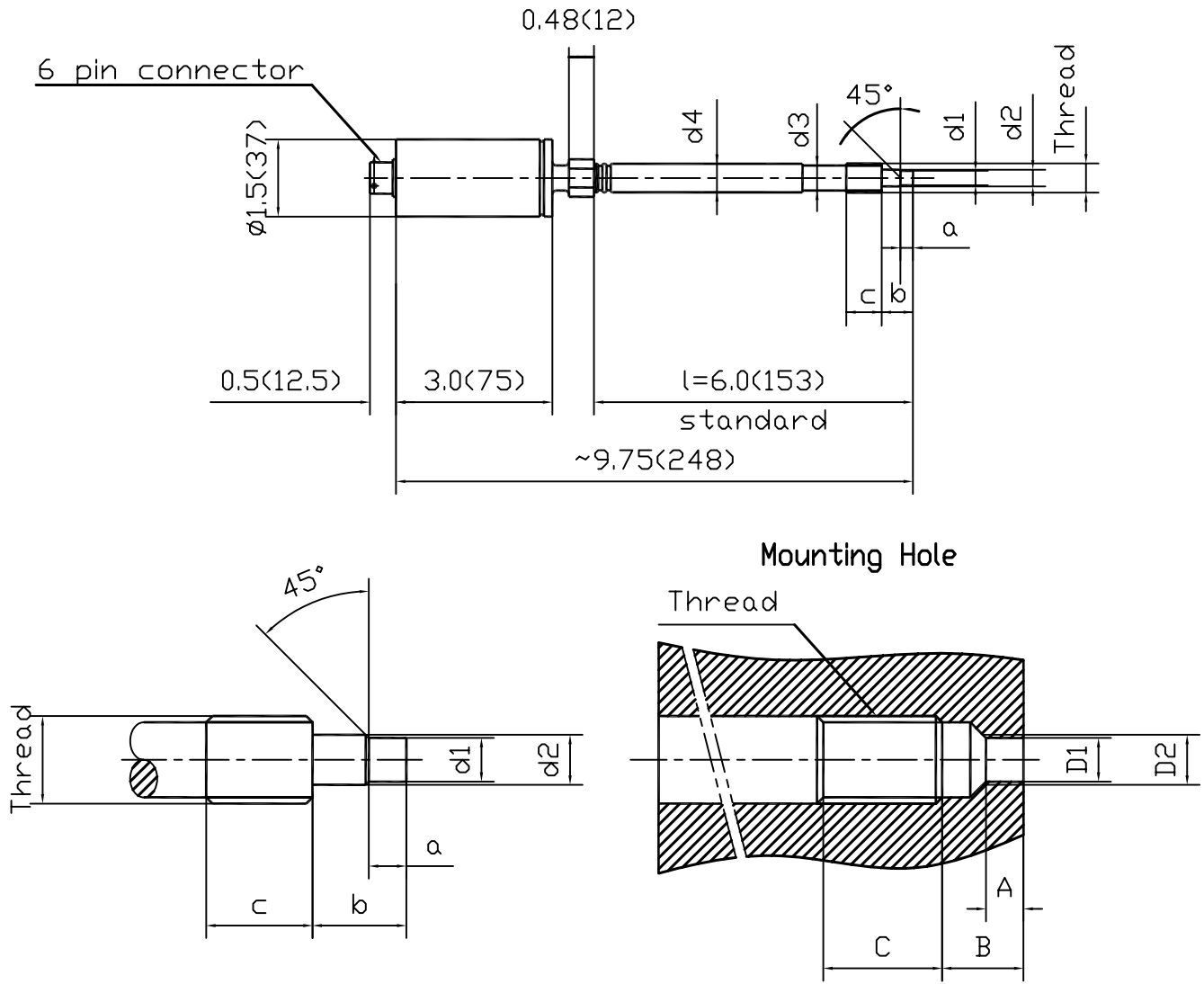
Melt Pressure Transducers

for Extrusion and Polymer Processing

Ordering Guide

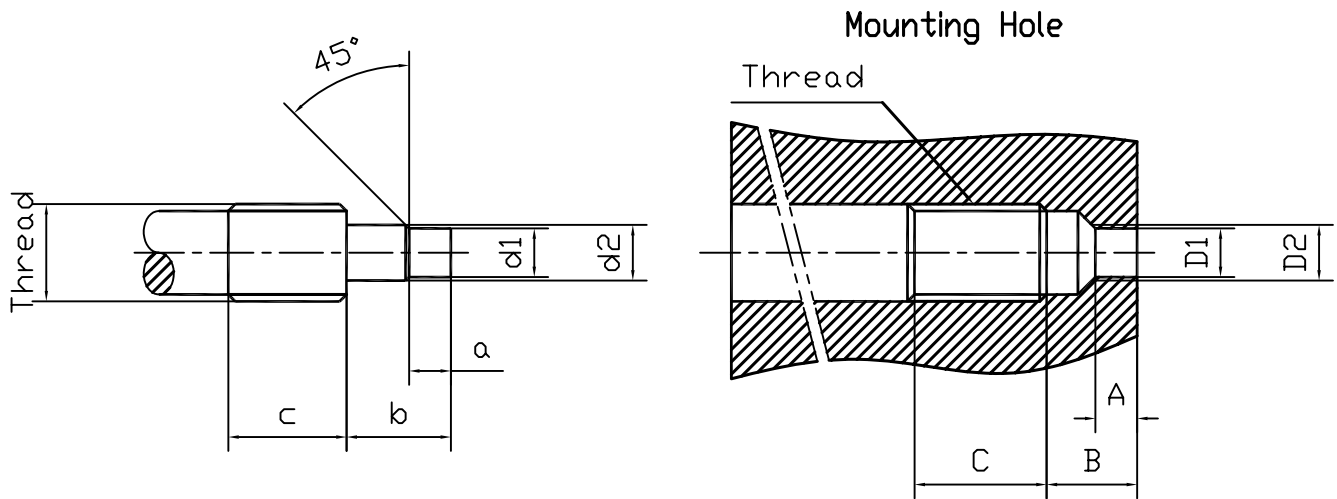
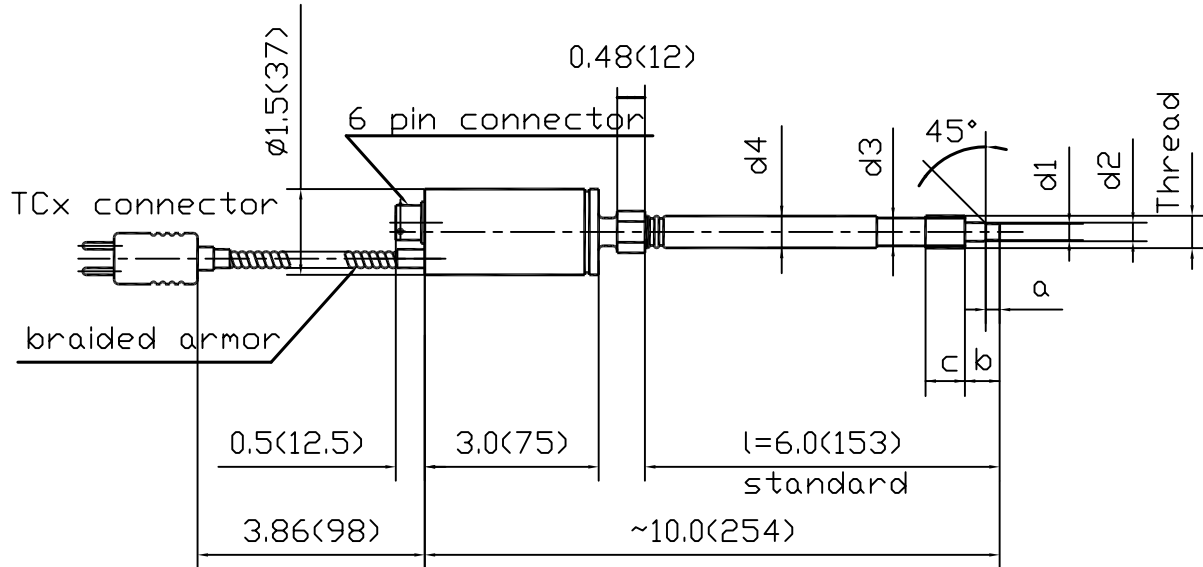
<u>Model Number</u>	<u>Transducer Style</u>		
CT RT	rigid stem with 18" flex capillary rigid stem only (no flex capillary)		
"no designation" DLX	<u>Accuracy</u> 0.5% Accuracy - standard 0.25% Accuracy		
3 6 12	<u>Rigid Stem Length</u> 3" 6" - standard 12"		
Q R S	<u>Output</u> 2.0 mV/Volt 2.5 mV/Volt 3.33 mV/Volt - standard		
<u>Standard Pressure Ranges</u>			
-1.5M	0 - 1,500 psi	-1CB	0 - 100 bar
-3M	0 - 3,000 psi	-2CB	0 - 200 bar
-5M	0 - 5,000 psi	-3.5CB	0 - 350 bar
-7.5M	0 - 7,500 psi	-5CB	0 - 500 bar
-10M	0 - 10,000 psi	-7CB	0 - 700 bar
-15M	0 - 15,000 psi	-1MB	0 - 1,000 bar
-20M	0 - 20,000 psi	-1.4MB	0 - 1,400 bar
-30M	0 - 30,000 psi	-2MB	0 - 2,000 bar
<u>Common Options</u>			
-8PIN	8 pin connector in place of standard 6 pin		
-TCJ	Thermocouple Type "J"		
-TCK	Thermocouple Type "K"		
-PT100	100 Ohm Platinum RTD		
-M18	M18 X 1.5 metric thread in place of 1/2-20 UNF		
-FAxx	Non-Standard flex armor length (xx- specify in inches)		
For configurations not listed please contact your local ONEhalf20 distributor.			

North America Toll Free 877 781-1881
Other Locations 416 781-1881
www.onehalf20.com



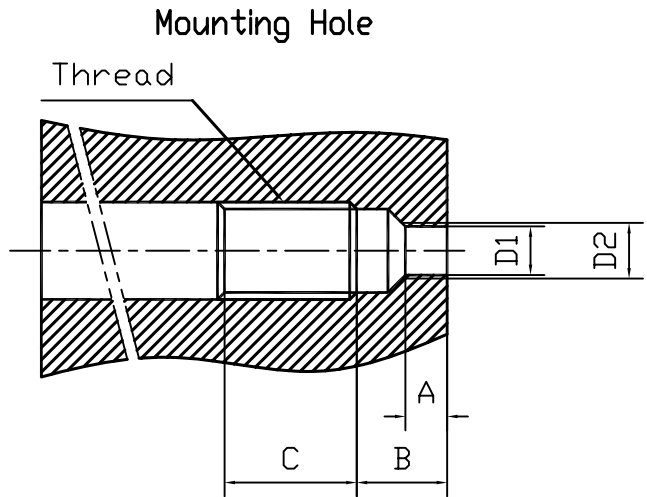
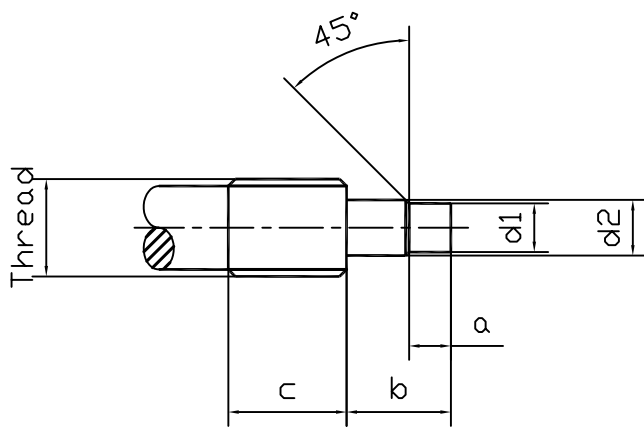
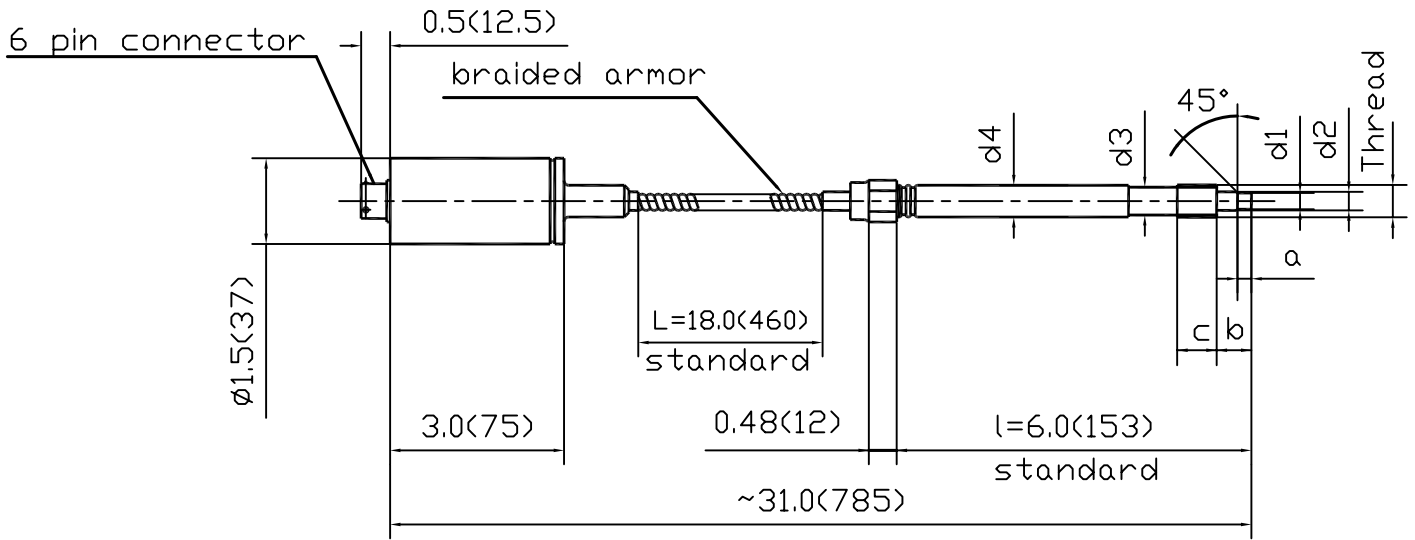
Thread	d1	d2	a	b	c	d3	d4
1/2"-20	ø0.307(7.8) ø0.303(7.7)	ø0.413(10.5) ø0.407(10.35)	0.217(5.5) 0.211(5.35)	0.441(11.2) 0.433(11.0)	0.629(16)	ø0.41(10.5)	ø0.5(12.7)
M14x1.5	ø0.307(7.8) ø0.303(7.7)	ø0.465(11.8) ø0.457(11.6)	0.217(5.5) 0.211(5.35)	0.441(11.2) 0.433(11.0)	0.708(18)	ø0.47(12.0)	ø0.54(13.7)
M18x1.5	ø0.394(10.0) ø0.386(9.8)	ø0.610(15.5) ø0.602(15.3)	0.236(6.0) 0.230(5.85)	0.551(14.0) 0.543(13.8)	0.787(20)	ø0.63(16.0)	ø0.669(17.0)

Thread	D1	D2	A	B	C
1/2"-20	ø0.314(7.98) ø0.312(7.92)	ø0.458(11.65) ø0.452(11.47)	0.225(5.72)	0.395(10.02)	0.75(19)
M14x1.5	ø0.314(7.98) ø0.312(7.92)	ø0.512(13.0) ø0.504(12.8)	0.225(5.72)	0.395(10.02)	0.827(21)
M18x1.5	ø0.401(10.19) ø0.399(10.13)	ø0.638(16.2) ø0.634(16.1)	0.242(6.15)	0.402(10.15)	1.00(25.4)



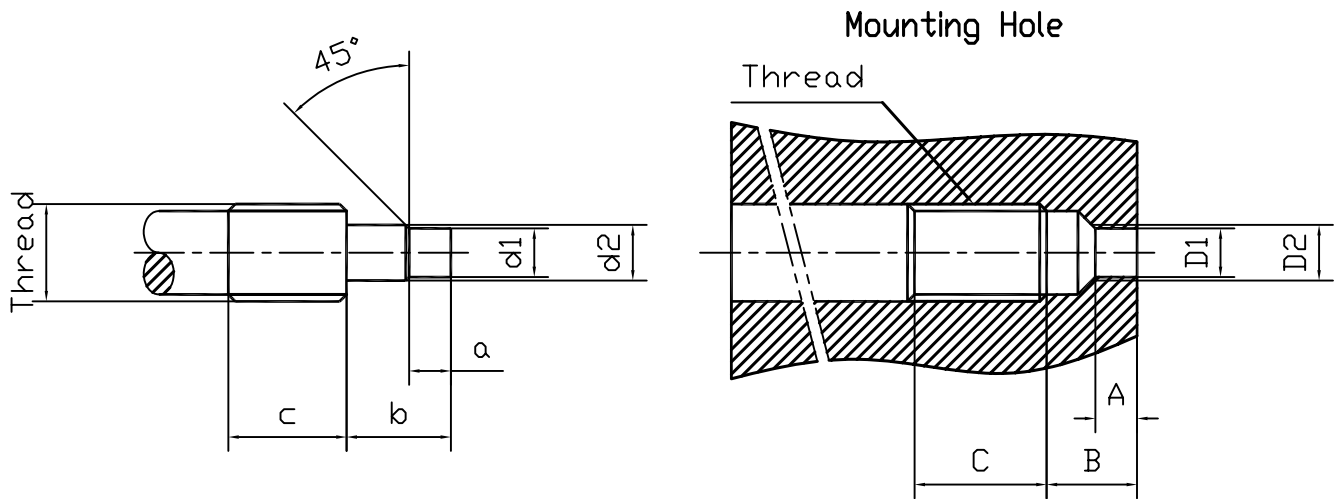
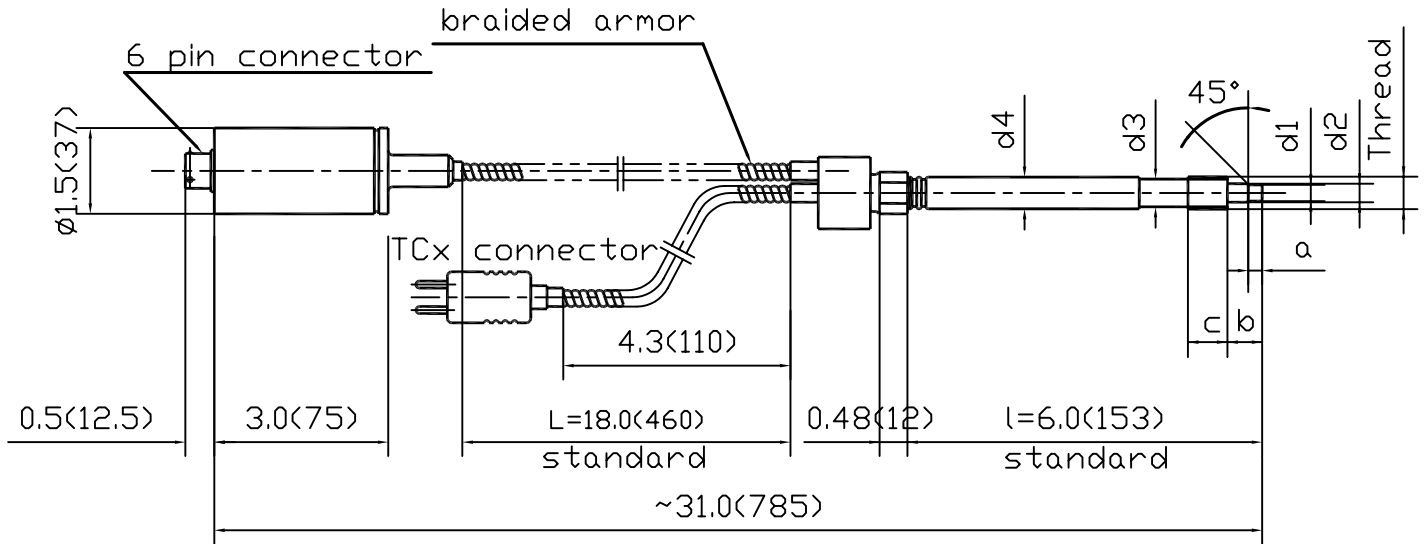
Thread	d1	d2	a	b	c	d3	d4
1/2"-20	ø0.307(7.8)	ø0.413(10.5)	0.217(5.5)	0.441(11.2)	0.629(16)	ø0.41(10.5)	ø0.5(12.7)
	ø0.303(7.7)	ø0.407(10.35)	0.211(5.35)	0.433(11.0)			
M14x1.5	ø0.307(7.8)	ø0.465(11.8)	0.217(5.5)	0.441(11.2)	0.708(18)	ø0.47(12.0)	ø0.54(13.7)
	ø0.303(7.7)	ø0.457(11.6)	0.211(5.35)	0.433(11.0)			
M18x1.5	ø0.394(10.0)	ø0.610(15.5)	0.236(6.0)	0.551(14.0)	0.787(20)	ø0.63(16.0)	ø0.669(17.0)
	ø0.386(9.8)	ø0.602(15.3)	0.230(5.85)	0.543(13.8)			

Thread	D1	D2	A	B	C
1/2"-20	ø0.314(7.98)	ø0.458(11.65)	0.225(5.72)	0.395(10.02)	0.75(19)
	ø0.312(7.92)	ø0.452(11.47)			
M14x1.5	ø0.314(7.98)	ø0.512(13.0)	0.225(5.72)	0.395(10.02)	0.827(21)
	ø0.312(7.92)	ø0.504(12.8)			
M18x1.5	ø0.401(10.19)	ø0.638(16.2)	0.242(6.15)	0.402(10.15)	1.00(25.4)
	ø0.399(10.13)	ø0.634(16.1)			



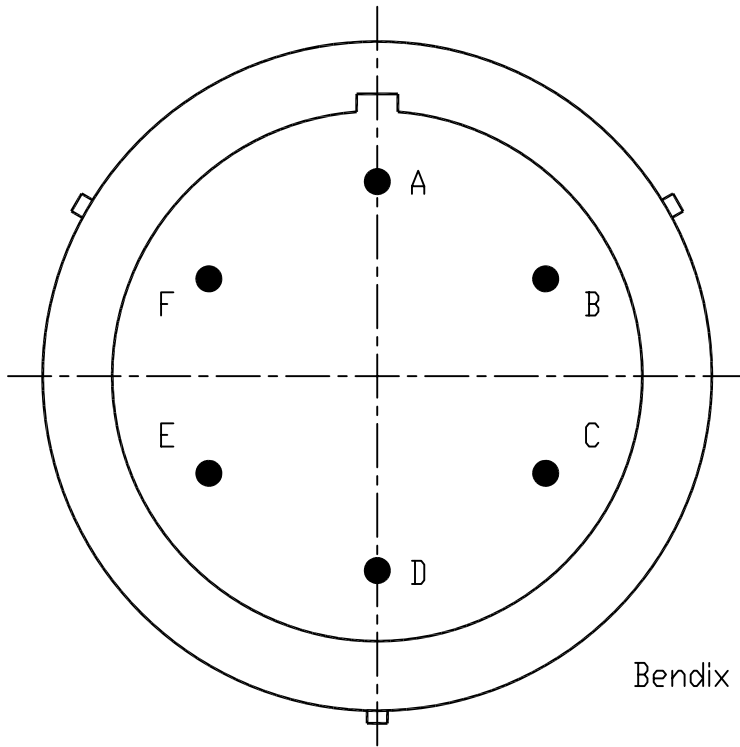
Thread	d1	d2	a	b	c	d3	d4
1/2"-20	ø0.307(7.8)	ø0.413(10.5)	0.217(5.5)	0.441(11.2)	0.629(16)	ø0.41(10.5)	ø0.5(12.7)
	ø0.303(7.7)	ø0.407(10.35)	0.211(5.35)	0.433(11.0)			
M14x1.5	ø0.307(7.8)	ø0.465(11.8)	0.217(5.5)	0.441(11.2)	0.708(18)	ø0.47(12.0)	ø0.54(13.7)
	ø0.303(7.7)	ø0.457(11.6)	0.211(5.35)	0.433(11.0)			
M18x1.5	ø0.394(10.0)	ø0.610(15.5)	0.236(6.0)	0.551(14.0)	0.787(20)	ø0.63(16.0)	ø0.669(17.0)
	ø0.386(9.8)	ø0.602(15.3)	0.230(5.85)	0.543(13.8)			

Thread	D1	D2	A	B	C
1/2"-20	ø0.314(7.98)	ø0.458(11.65)	0.225(5.72)	0.395(10.02)	0.75(19)
	ø0.312(7.92)	ø0.452(11.47)			
M14x1.5	ø0.314(7.98)	ø0.512(13.0)	0.225(5.72)	0.395(10.02)	0.827(21)
	ø0.312(7.92)	ø0.504(12.8)			
M18x1.5	ø0.401(10.19)	ø0.638(16.2)	0.242(6.15)	0.402(10.15)	1.00(25.4)
	ø0.399(10.13)	ø0.634(16.1)			



Thread	d1	d2	a	b	c	d3	d4
1/2"-20	ø0.307(7.8) ø0.303(7.7)	ø0.413(10.5) ø0.407(10.35)	0.217(5.5) 0.211(5.35)	0.441(11.2) 0.433(11.0)	0.629(16)	ø0.41(10.5)	ø0.5(12.7)
M14x1.5	ø0.307(7.8) ø0.303(7.7)	ø0.465(11.8) ø0.457(11.6)	0.217(5.5) 0.211(5.35)	0.441(11.2) 0.433(11.0)	0.708(18)	ø0.47(12.0)	ø0.54(13.7)
M18x1.5	ø0.394(10.0) ø0.386(9.8)	ø0.610(15.5) ø0.602(15.3)	0.236(6.0) 0.230(5.85)	0.551(14.0) 0.543(13.8)	0.787(20)	ø0.63(16.0)	ø0.669(17.0)

Thread	D1	D2	A	B	C
1/2"-20	ø0.314(7.98) ø0.312(7.92)	ø0.458(11.65) ø0.452(11.47)	0.225(5.72)	0.395(10.02)	0.75(19)
M14x1.5	ø0.314(7.98) ø0.312(7.92)	ø0.512(13.0) ø0.504(12.8)	0.225(5.72)	0.395(10.02)	0.827(21)
M18x1.5	ø0.401(10.19) ø0.399(10.13)	ø0.638(16.2) ø0.634(16.1)	0.242(6.15)	0.402(10.15)	1.00(25.4)



Bendix PT02-10-6P or Equivalent

	mV/Volt Output (Excitation-10Vdc)
Pin A/Red	Signal(+)
Pin B/Black	Signal(-)
Pin C/White	Excitation(+)
Pin D/Green	Excitation(-)
Pin E/Blue	Calibration 1
Pin F/Orange	Calibration 2