



## PT170&PT172&PT173 Series Alloy-Filled Melt Pressure Transducer



### Features

- signal output: 3.33mV/V,0-10V,0-5V,4-20mA
- accuracy grade:  $\pm 0.5\%F.S$
- special diaphragm coating
- IP65 protection level
- 80% internal calibration

### Applications

chemical fiber industry  
injection molding industry

### Description

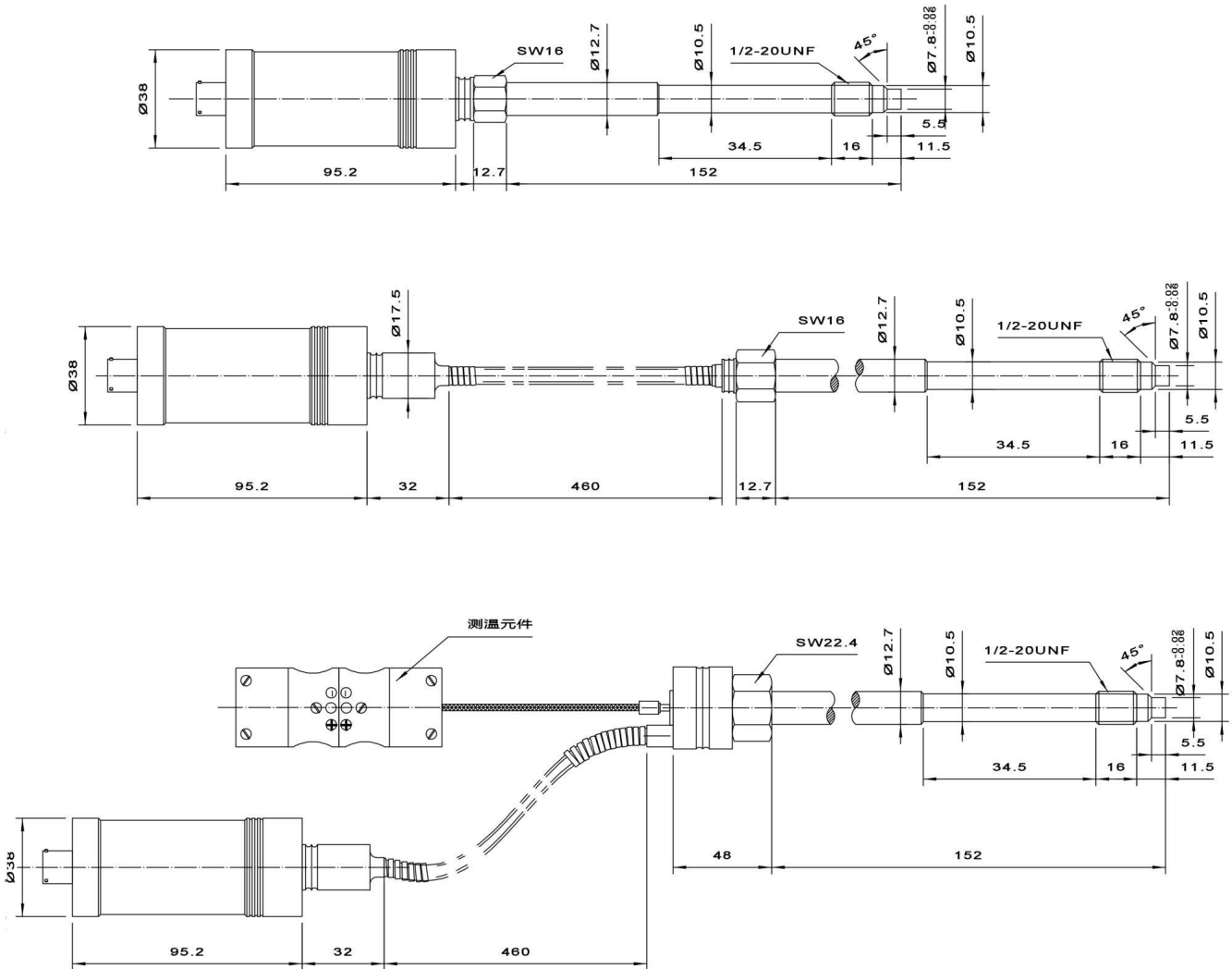
Alloy-filled melt pressure transducer is used to measure pressure at high temperature in the industries like chemical fiber and injection molding, special diaphragm and highly anti-abrasive coating of which enable it to work normally at high temperature of 400°C. It adopts environmental-friendly alloy-filled metal and threaded connection with 80% internal calibration. This series is characterized by good stability and long lifespan.

### Technical Parameters

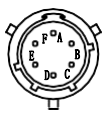
<b>Input Voltage</b>	10VDC (mV/V signal output) 24Vdc(mA, Volt signal output)	<b>Bridge Resistance</b>	350Ω
<b>Output Signal</b>	3.33mV/V, 0-10V, 0-5V, 4-20mA	<b>Diaphragm Material</b>	Hastelloy
<b>Accuracy Grade</b>	$\pm 0.5\%F.S$	<b>Diaphragm Temp</b>	400°C
<b>Pressure Range</b>	0~3.5MPa, 0~200MPa	<b>E-Connection</b>	6-pin standard aviation connector
<b>Pressure Unit</b>	psi, bar, Mpa	<b>Mounting Torque</b>	40N.m Max
<b>Overload Capacity</b>	1.5 times rated pressure	<b>Process Connection</b>	1/2-20UNF
<b>Zero Temp Drift</b>	0.003MPa/°C	<b>Protection Level</b>	IP65
<b>Electrical Environmental Temp</b>	-20~85°C	<b>Temp Measuring Components</b>	E, J, K type or Pt100

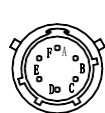



## External Dimension



## E-Connection

6-PIN Connector	Current Output Signal (4-20mA)					
	A	B	C	D	E	F
	E +	E -			CAL	CAL
	Red	Black			Blue	Orange

6-PIN Connector	Voltage Output Signal(0-5V,0-10V, mV )					
	A	B	C	D	E	F
	S +	S -	E +	E -	CAL	CAL
	Red	Black	White	Green	Blue	Orange

8-PIN Connector	mV Output Singal (3.33mV/V)					
	A	B	C	D	E	F
	Power+	Singal+	Power-	Singal-	CAL	
	Red	Black	White	Green	Blue - Yellow	

Note:S represents signal output;E represents power supply;CAL represents calibration



## Ordering Guide

Series Code		PT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Product Type	rigid stem type		170															
	flexible type		172															
	double measurement type		173															
Pressure Range	3.5MPa 35bar 500psi			5C														
	5MPa 50bar 750psi			7.5C														
	7MPa 70bar 1000psi			1M														
	10MPa 100bar 1500psi			1.5M														
	20MPa 200bar 3000psi			3M														
	35MPa 350bar 5000psi			5M														
	50MPa 500bar 7500psi			7.5M														
	70MPa 700bar 10000psi			10M														
	100MPa 1000bar 15000psi			15M														
	140MPa 1400bar 20000psi			20M														
200MPa 2000bar 30000psi			30M															
Process Connection	1/2-20UNF				1/2													
	M14×1.5				M14													
	M18×1.5				M18													
	M22×1.5				M22													
	G3/8				G3/8													
Rigid Stem Length	6inches (152mm)					6												
	9inches (229mm)					9												
	12.5inches (318mm)					12												
	15inches (381mm)					15												
	18inches (460mm)					18												
Flexible Length	18inches (460mm)						18											
	24inches (610mm)						24											
	30 inches (460mm)						30											
Signal Output	3.33mV/V									MV								
	4~20mA									MA								
	0~10VDC									10V								
	0~5VDC									5V								
Temp Measurement	J type										J							
	K type										K							
	E type										E							
	three-wire Pt100										RTD							
E-Connection	6-Pin standard aviation connector																Blank	
	8-Pin standard aviation connector																8P	
Diaphragm Material	17-4PH(standard)																Blank	
	Hastelloy (anti-corrosive type)																C2	
	Inconel718(anti-abrasive)																I7	
	17-4PH thickening diaphragm																T2	