

PART NO. DESIGNATION
PTE7100 - 2 1 A A - 1 A 040B M .810 A

PRESSURE RANGE
 0~29bar...1
 30~100bar...2
 101~250bar...3
 251~400bar...4
 401~600bar...5

OUTPUT TYPE
 4-20 mA/8-32VDC.....1
 0.5-4.5VDC/5±0.25VDC.....2
 0-5VDC/8-32VDC.....3
 0-10 VDC/12-32VDC.....3
 1-5VDC/8-32VDC.....3
 0.5-4.5VDC/8-32VDC.....3

PRESSURE PORT
 G1/4A DIN 3852-EA
 1/4-19 PT (1/4-19 BSPT),(R1/4).....B
 7/16-20 UNF SAE J1926-2.....C
 1/4-18 NPTD

ELECTRICAL CONNECTOR
 (DETAILS SEE PAGE 2)
 DIN 175301-803 A (18mm).....A
 M12x1 - 4 POLE.....B
 PACKARD METRI-PACK 150.....C
 FLY LEAD HARNESS (2m).....D
 DEUTSCH DT04-3P.....E
 GTMS CONNECTOR M12X1 -4P.....H

MOQ
 A.....MOQ500pcs
 B.....MOQ50pcs
 C.....MOQ500pcs INDIVIDUAL PACKAGE

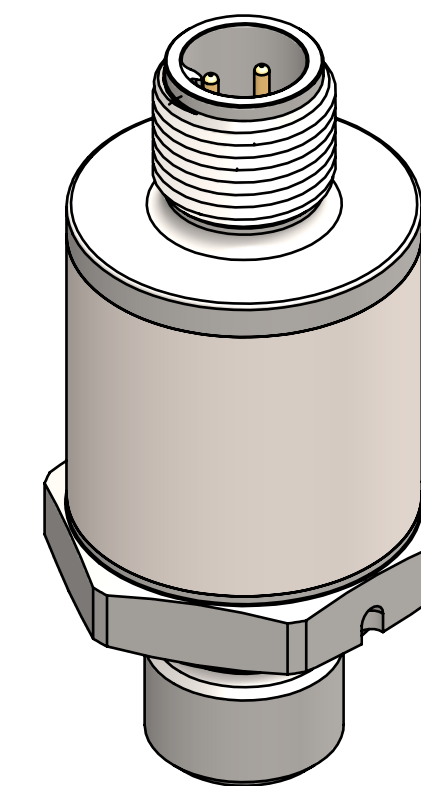
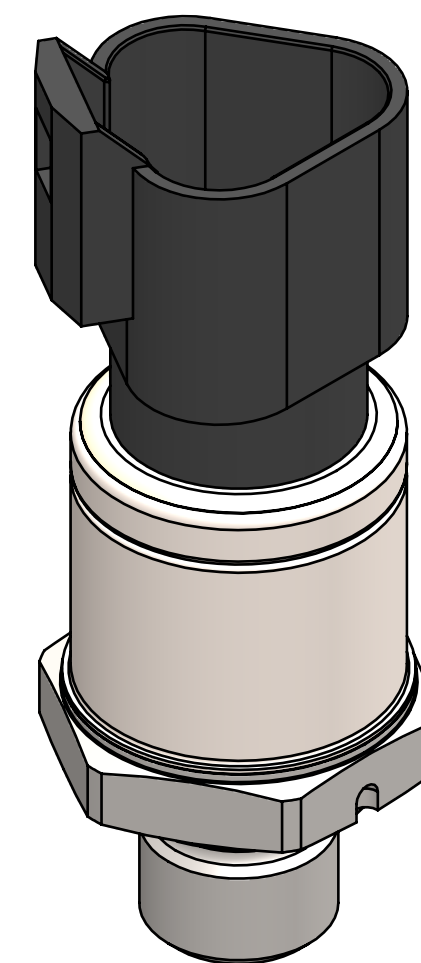
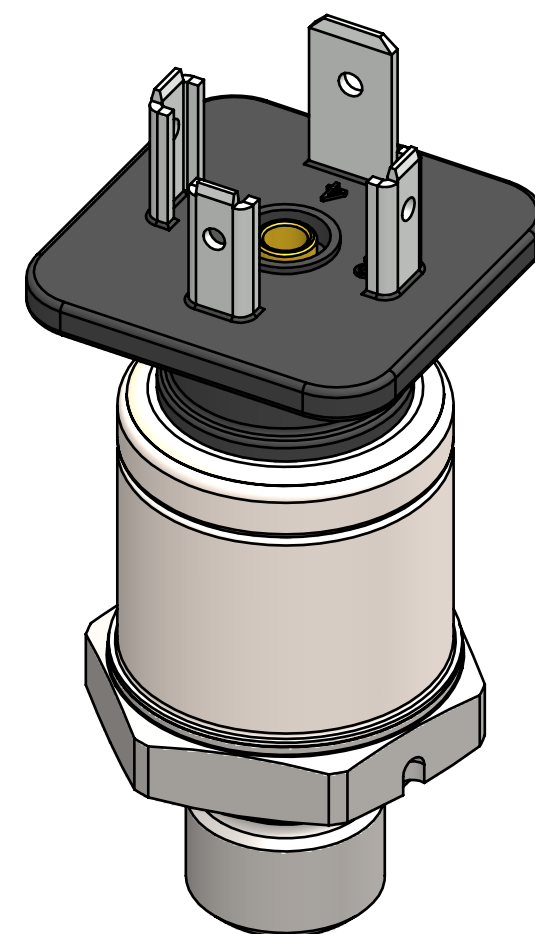
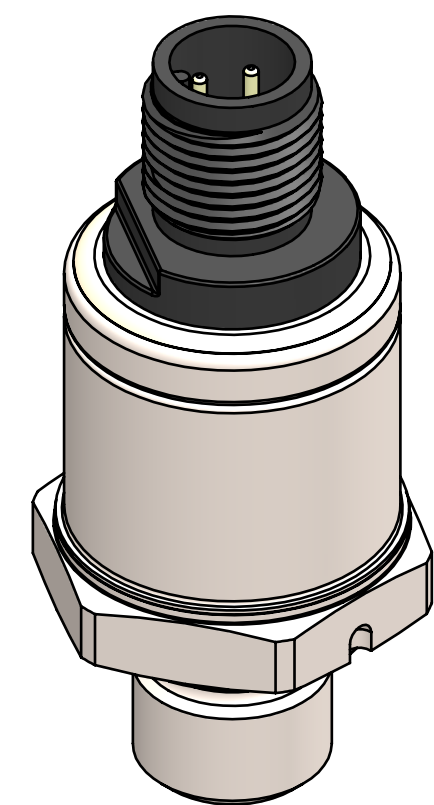
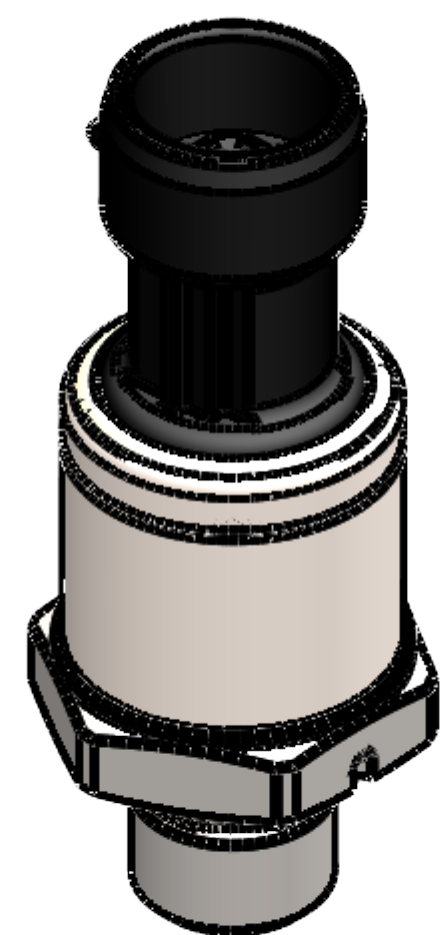
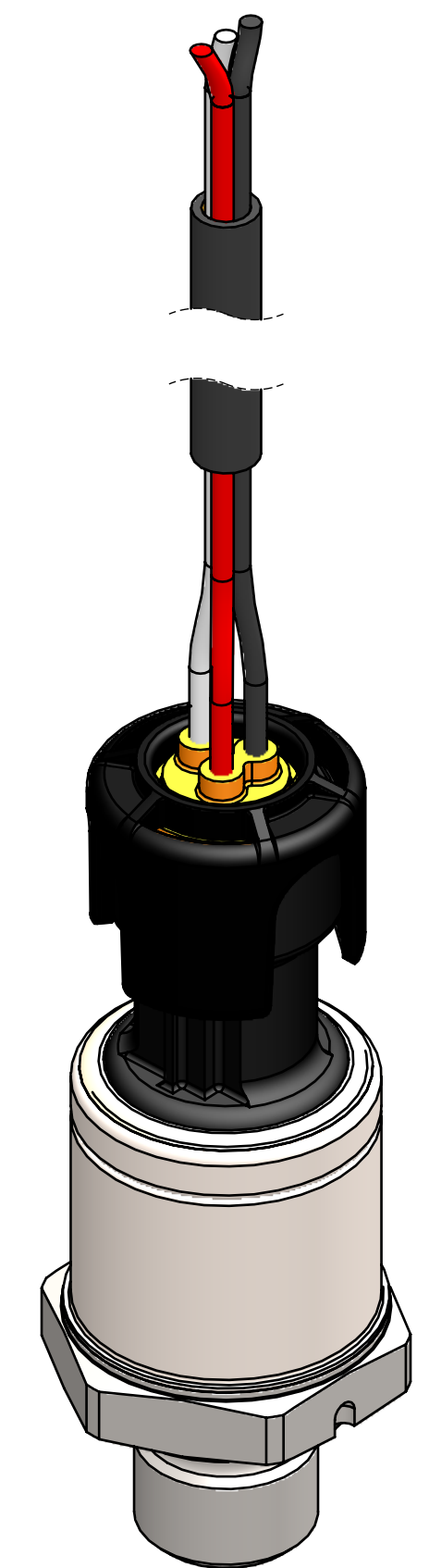
MATING CONNECTOR AND SNUBBER
 N.....NONE
 M.....MATING CONNECTOR, NO SNUBBER
MATING CONNECTOR ONLY FOR DIN 175301-803A
 S.....NO MATING CONNECTOR, SNUBBER
SNUBBER WITH Ø0.5mm DAMPING HOLE
 A.....MATING CONNECTOR, SNUBBER
MATING CONNECTOR ONLY FOR DIN 175301-803A
SNUBBER WITH Ø0.5mm DAMPING HOLE

PRESSURE TYPE
 S.....SEAL GAUGE, WHEN GTMS PACKAGE
 (WHEN GTMS CONNECTOR H)
 B.....NON SEAL GAUGE

PRESSURE RANGE
 010.....0...10bar
 016.....0...16bar
 025.....0...25bar
 040.....0...40bar
 050.....0...50bar
 060.....0...60bar
 100.....0...100bar
 160.....0...160bar
 200.....0...200bar
 250.....0...250bar
 350.....0...350bar
 400.....0...400bar
 500.....0...500bar
 600.....0...600bar

OUTPUT/INPUT
 A.....4-20 mA/8-32VDC
 B..... 0.5-4.5VDC/5±0.25VDC
 C.....0-5VDC/8-32VDC
 D.....0-10 VDC/12-32VDC
 E..... 1-5VDC/8-32VDC
 F..... 0.5-4.5VDC/8-32VDC

EXTERNAL SEAL RING
 NONE.....0
 FKM (VITON) SEAL RING.....1
ONLY FOR PRESSURE PORT
 OPTION A
 HNBR SEAL RING.....2
ONLY FOR PRESSURE PORT
 OPTION C



**FLY LEAD HARNESS
 MODEL SHOWN**

**METRI-PACK 150
 MODEL SHOWN**

**M12X1 4-POLE
 MODEL SHOWN**

**DIN 175301-803A
 MODEL SHOWN**

**DEUTSCH DT04-3P
 MODEL SHOWN**

**GTMS CONNECTOR
 M12X1-4P MODEL SHOWN**

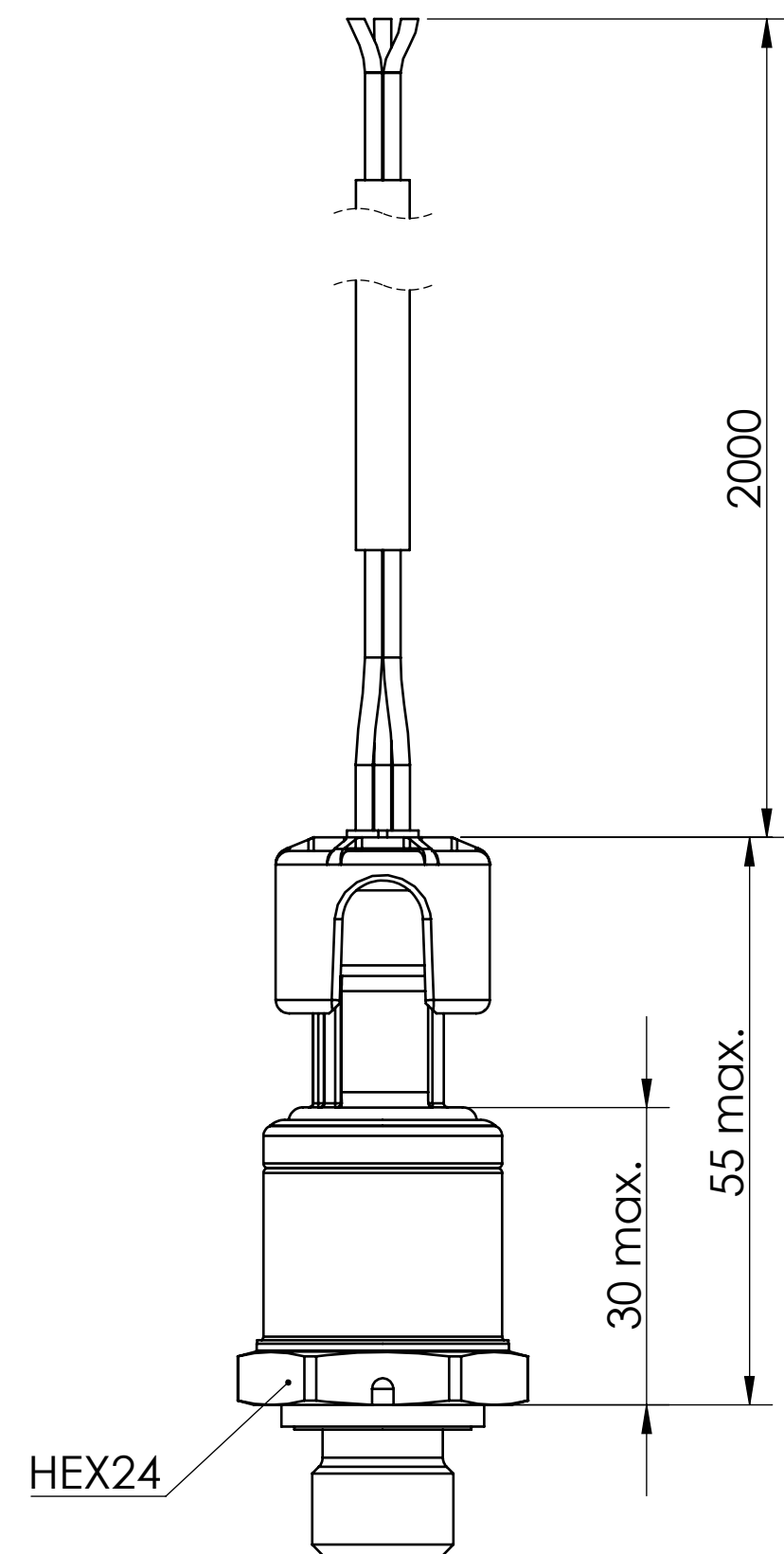
Pressure range													
from 0 to ...	bar 10 16 25 40 50 60 100 160 200 250 350 400 500 600 ...												
Proof pressure	bar 60 60 60 200 200 200 200 500 500 500 800 800 1200 1200 ...												
Burst pressure	bar 200 200 200 2000 2000 2000 2000 2500 2500 2500 4000 4000 4000 4000 ...												
Electrical													
Output signal	0~10 VDC 0.5~4.5 VDC 4~20mA 0~5/1~5/0.5~4.5 VDC ...												
Operating supply voltage	12...32 VDC 5±0.25 VDC 8...32 VDC 8...32 VDC ...												
Oversvoltage protection	min. 36 VDC Not Applicable min. 36 VDC min. 36 VDC ...												
Short-circuit proofness*	YES YES Not Applicable YES ...												
Reverse polarity protection*	YES YES YES YES ...												
Load	≥ 4.7 kΩ ≥ 4.7 kΩ ≤ (Vs-8VDC)/(20mA) ≥ 4.7 kΩ ...												
*Short spec	for min. 1 minute												
*Reverse spec	for min. 10 seconds on assigned pins												
Response time	< 2ms												
Temperature													
Operating	-40°C to +100°C												
Medium	-40°C to +125°C												
Storage*	-40°C to +125°C												
* Storage temperature spec	PVC flying lead are rated for storage temperature range of -40°C to +105°C												
Accuracy													
Basic Accuracy*	± 0.5% FS @ 25°C												
BFSL Accuracy*	± 0.25% FS @ 25°C												
Non-linearity*	± 0.2% FS												
Non-repeatability	± 0.1% FS												
Total error band	± 1.5% FS @ -20°C to 85°C												
*Basic Accuracy	Including non-linearity, hysteresis, zero and span error (corresponds to measured error per IEC 61298-2).												
*BFSL Accuracy	Including non-linearity, hysteresis and non-repeatability, excluding zero and span error (corresponds to the smart options per IEC 60770-1, the instrument is equipped with facilities for offset and span adjustment).												
*Non-linearity spec	BFSL (best-fit-straight-line) according to IEC 61298-2												
Conformity													
RoHS & REACH	YES												
UKCA	UK Pressure Equipment Safety Regulation(PESR)2016												
CE	According to EMC Directive 2014/30/EU, EN 61326 Emission and Immunity (industrial locations)												
Radiated Immunity	100V/m @ 80...200MHz; 200V/m @ 200...2700MHz, according to ISO 11452-2												
Vibration resistance	30g (sine) min. according to IEC 60068-2-6												
Shock resistance	500g min. according to IEC 60068-2-27, except fly lead with harness												
Durability	> 10 X 10 ⁶ cycles												
Ingress protection per IEC 60 529	<table border="1"> <tr> <td>FLY LEAD HARNESS</td> <td>METRI-PACK 150</td> <td>M12x1 4-POLE</td> <td>DIN 175301 - 803A</td> <td>DEUTSCH DT04-3P</td> <td>GTMS CONNECTOR</td> </tr> <tr> <td>IP67</td> <td>IP67</td> <td>IP67</td> <td>IP65</td> <td>IP67</td> <td>IP69</td> </tr> </table>	FLY LEAD HARNESS	METRI-PACK 150	M12x1 4-POLE	DIN 175301 - 803A	DEUTSCH DT04-3P	GTMS CONNECTOR	IP67	IP67	IP67	IP65	IP67	IP69
FLY LEAD HARNESS	METRI-PACK 150	M12x1 4-POLE	DIN 175301 - 803A	DEUTSCH DT04-3P	GTMS CONNECTOR								
IP67	IP67	IP67	IP65	IP67	IP69								
Media compatibility	All class II fluid and gases compatible with port material stainless steel 17-4PH (1.4542)												
Note 1): THE SENSOR CONFIGURATION WITH M12X1 GTMS CONNECTOR (GLASS TO METAL SEAL) IS A SEALED GAGE (SG) PRESSURE MEASUREMENT;													
Note 2): THE SENSOR CONFIGURATION WILL USE VENTED CONNECTORS WHEN THE SENSOR PRESSURE RANGE IS ≤40BAR, EXCEPT IN CASE OF THE GTMS CONNECTOR. SEE SHEET 2													

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DRAWN W. XU DATE 22-APR-2022 ENGINEER W. XU DATE 22-APR-2022 APPROVED CX.HU DATE 22-APR-2022 APPROVED DATE	INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009, UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. TOLERANCES LINEAR ANGULAR		TITLE PRESSURE TRANSDUCER		
DO NOT SCALE DRAWING METHOD THIRD ANGLE PROJECTION	TITLE PTE7100-TAB-ENV	NUMBER A1	REV G	SCALE 2:1	SHEET 1 OF 3

BUILT IN ELECTRICAL CONNECTOR OPTIONS

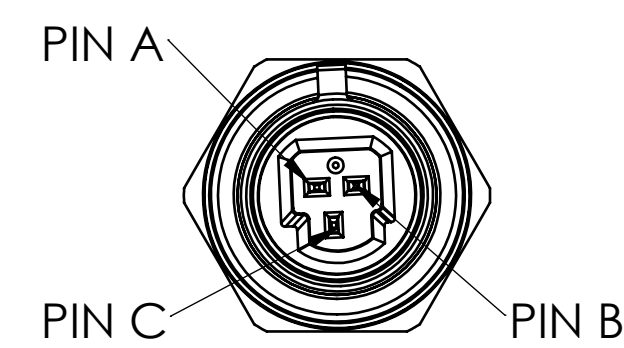
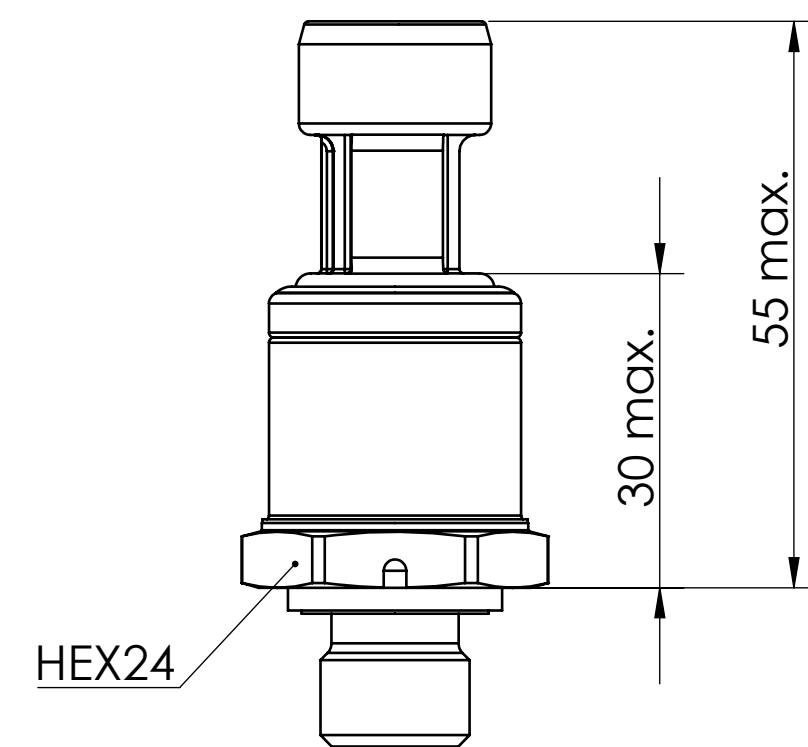
(PRESSURE PORT G1/4A DIN 3852-E SHOWN)

FLY LEAD HARNESS (2m) CONNECTOR



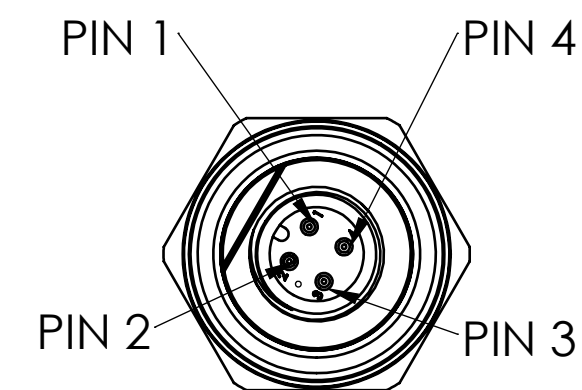
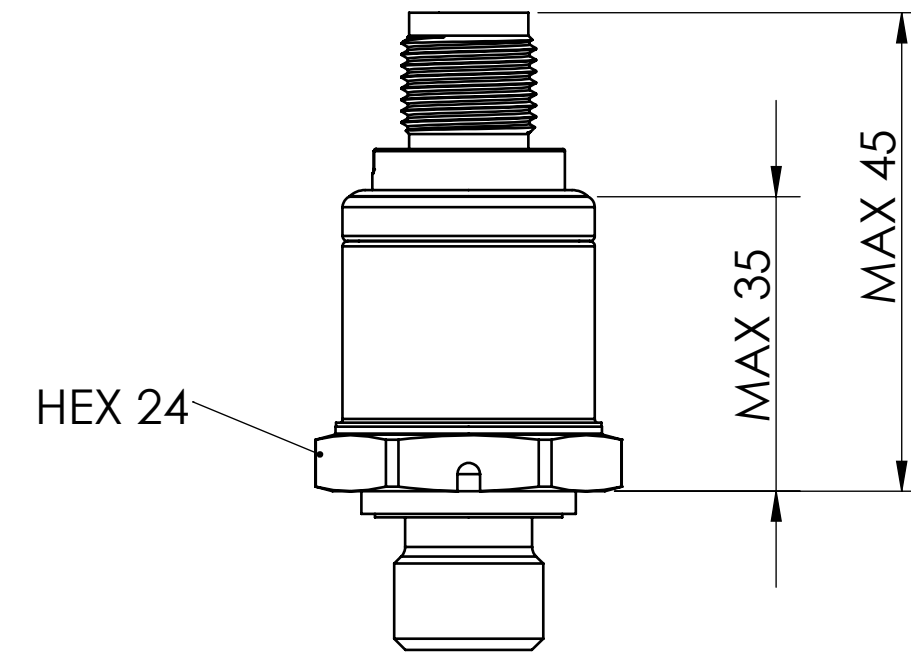
OUTPUT	BLACK	RED	WHITE
VOLTAGE	V-	V+	Vout
CURRENT	lout	V+	...

PACKARD METRI-PACK 150 CONNECTOR



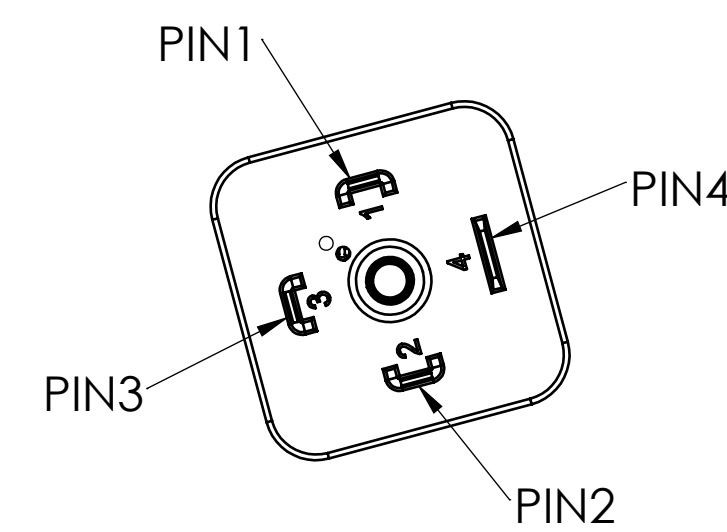
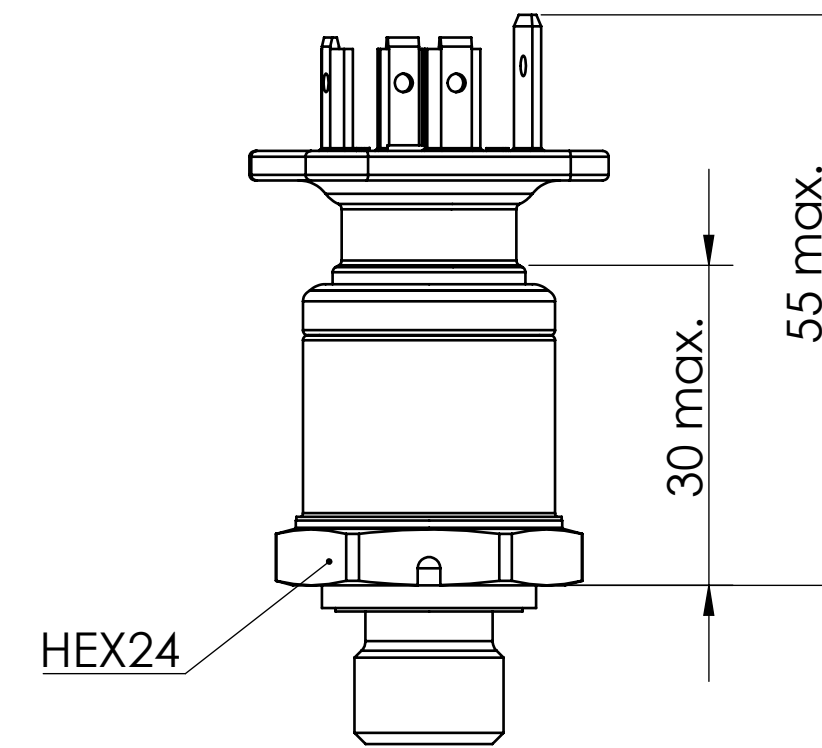
OUTPUT	PIN A	PIN B	PIN C
VOLTAGE	V-	V+	Vout
CURRENT	lout	V+	...

M12x1-4POLE CONNECTOR



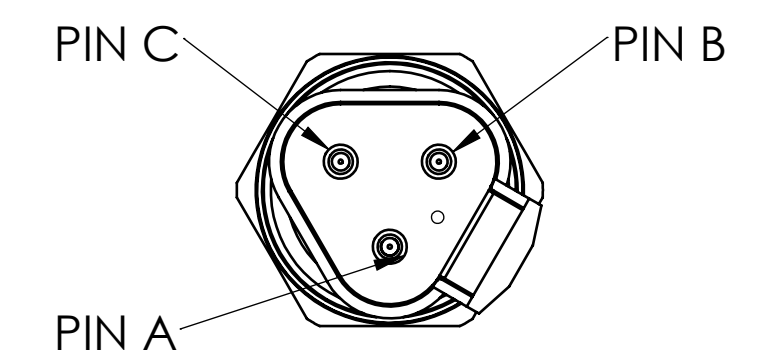
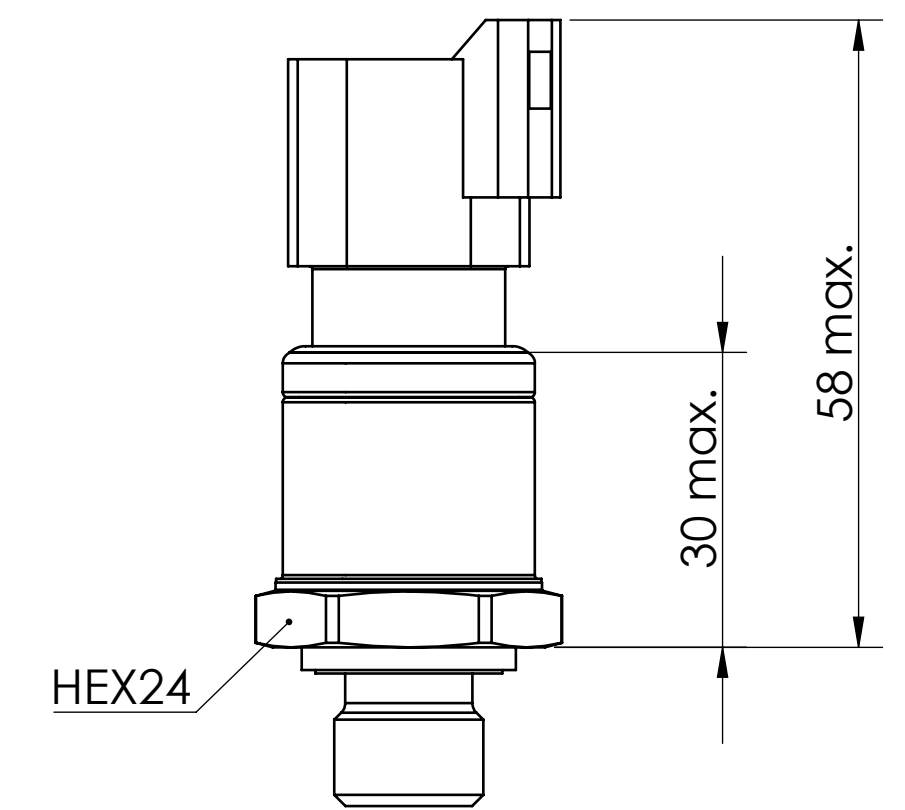
OUTPUT	PIN 1	PIN 2	PIN 3	PIN 4
VOLTAGE	V+	...	V-	Vout
CURRENT	V+	...	lout	...

DIN 175301-803A 18mm CONNECTOR



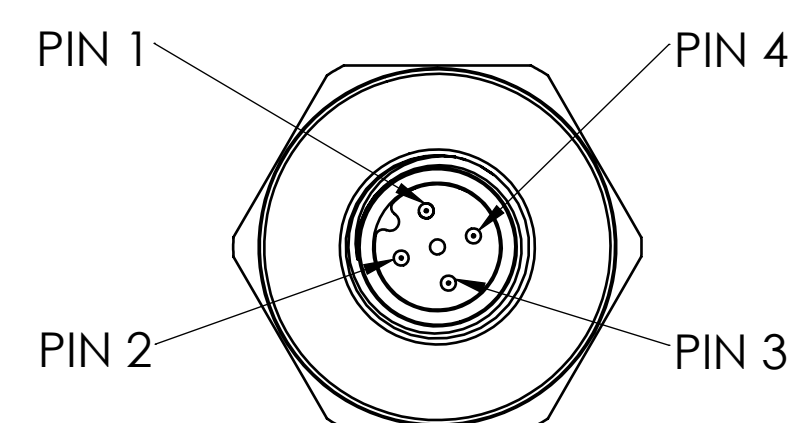
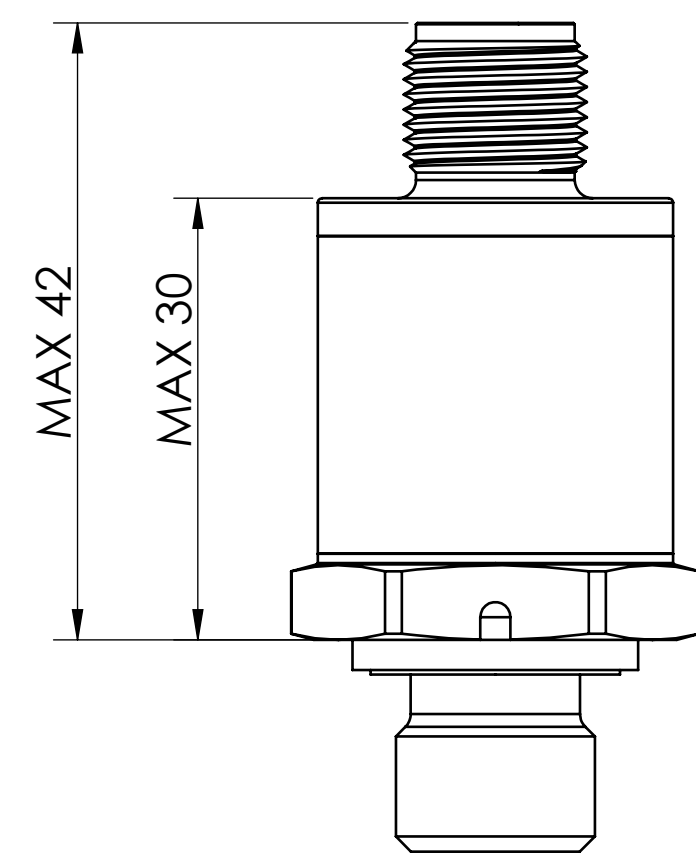
OUTPUT	PIN 1	PIN 2	PIN 3	PIN 4
VOLTAGE	V+	V-	Vout	...
CURRENT	V+	lout

DEUTSCH DT04-3P CONNECTOR



OUTPUT	PIN A	PIN B	PIN C
VOLTAGE	V+	V-	Vout
CURRENT	V+	lout	...

GTMS CONNECTOR 4POLE M12x1 CONNECTOR



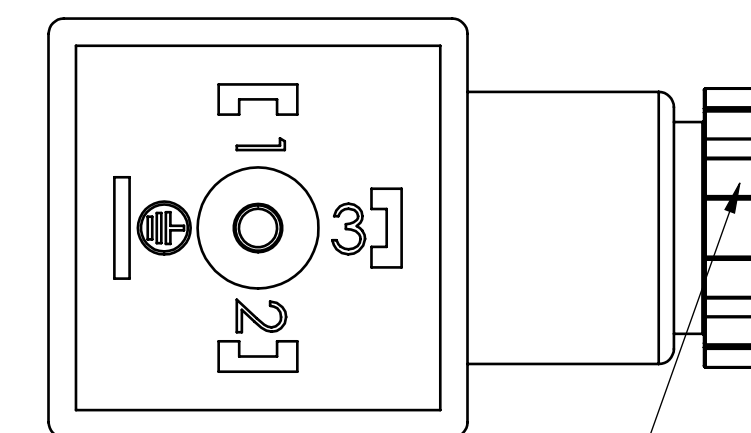
OUTPUT	PIN 1	PIN 2	PIN 3	PIN 4
VOLTAGE	V+	...	V-	Vout
CURRENT	V+	...	lout	...

NOTE:
 V+: Supply Voltage V-: Ground
 Vout: Output Voltage lout: Output Current
 ... : Not Connected

MATING CONNECTOR OPTIONS

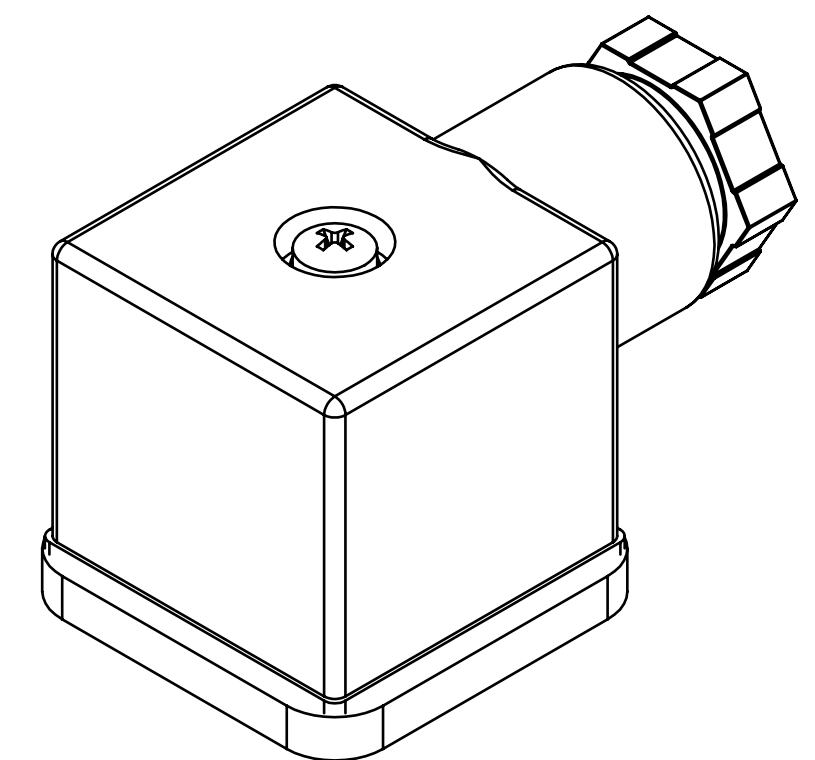
(ONLY DIN 175301-803A 18mm AVAILABLE)

DIN 175301-803A 18mm MATING CONNECTOR



PG9 FOR CABLE ϕ 4.5-7mm

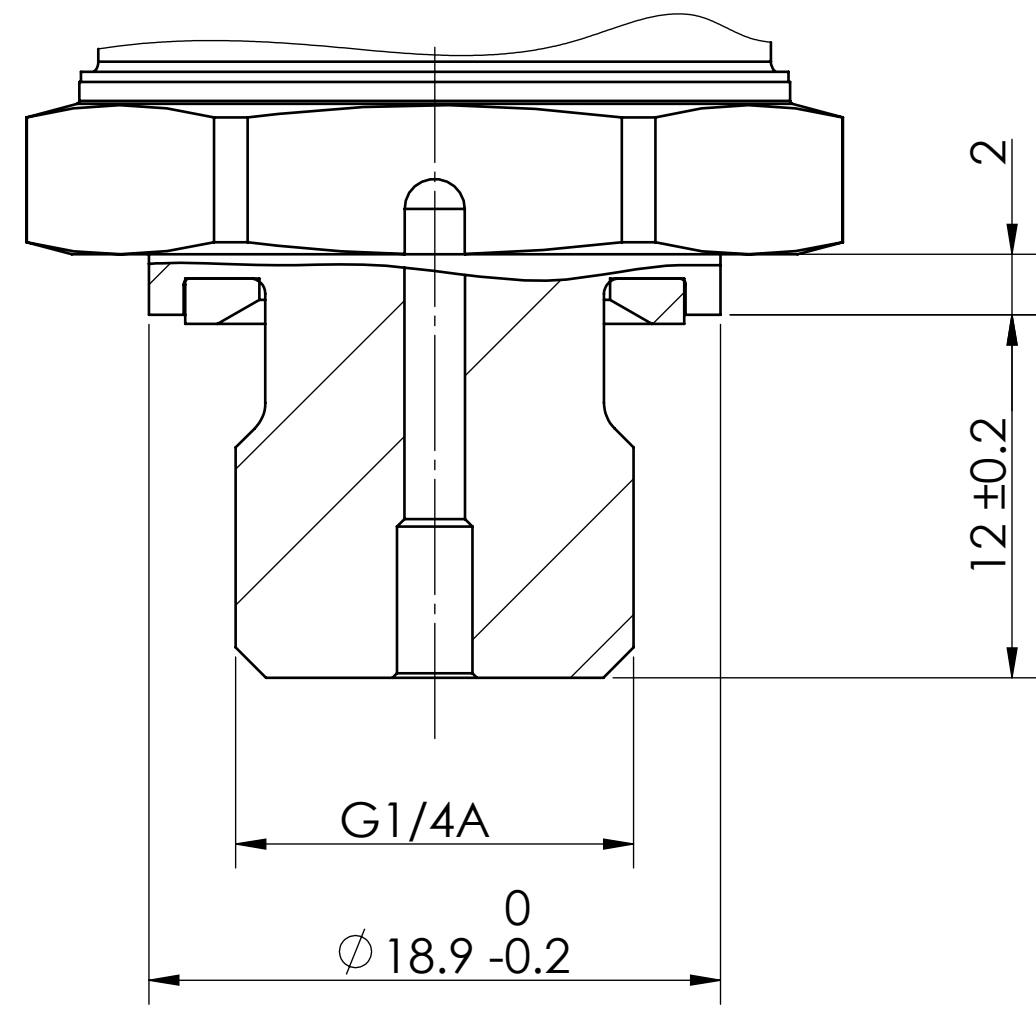
MATING CONNECTOR ASSEMBLY



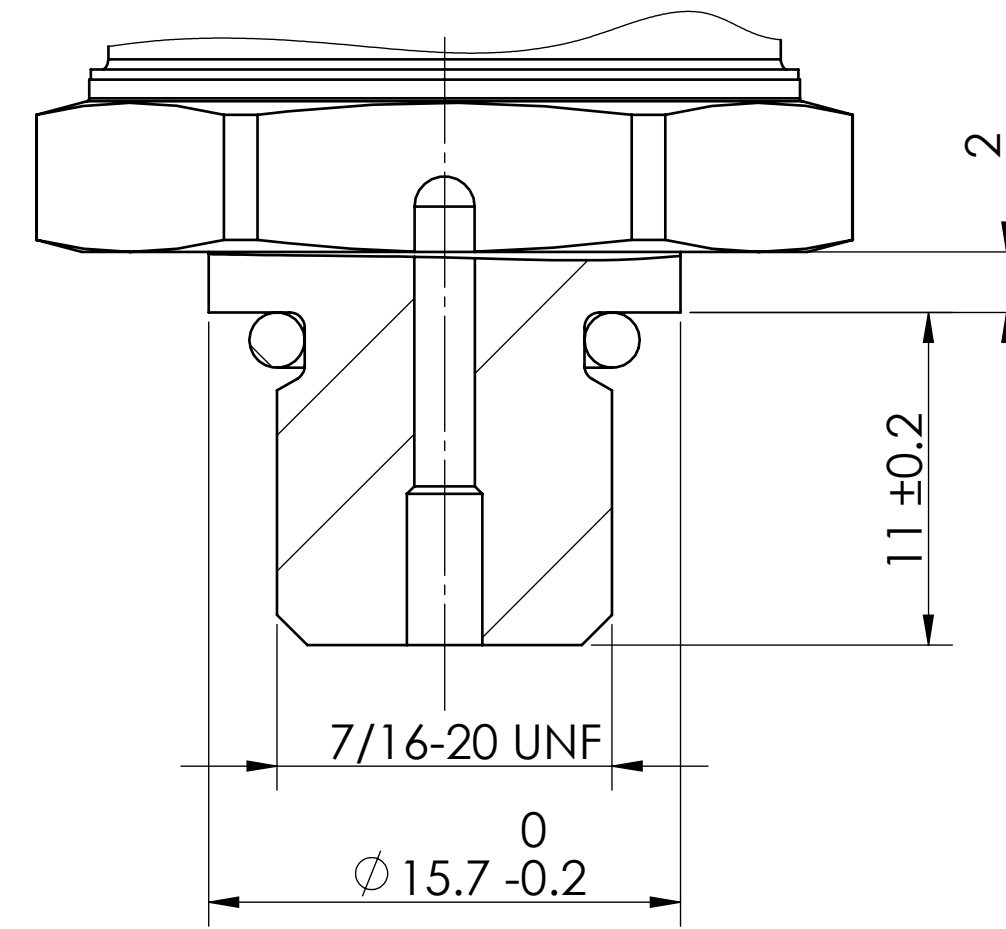
PRESSURE CONNECTION PORT OPTIONS

SNUBBER OPTIONS (PRESSURE PORT G1/4A DIN 3852-E SHOWN)

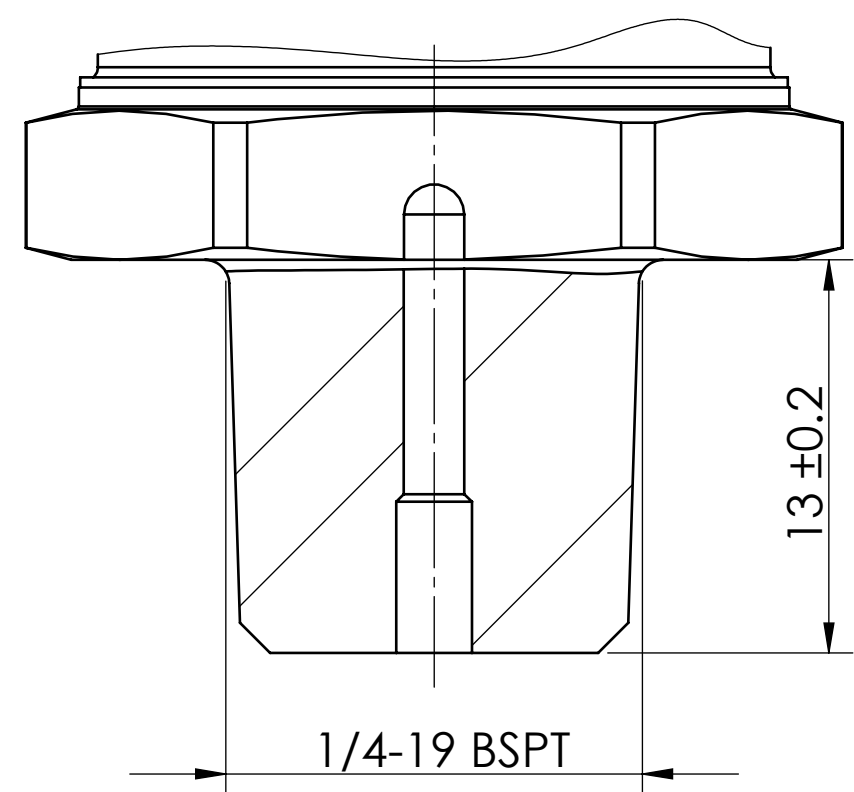
G1/4A (MALE) DIN 3852-E



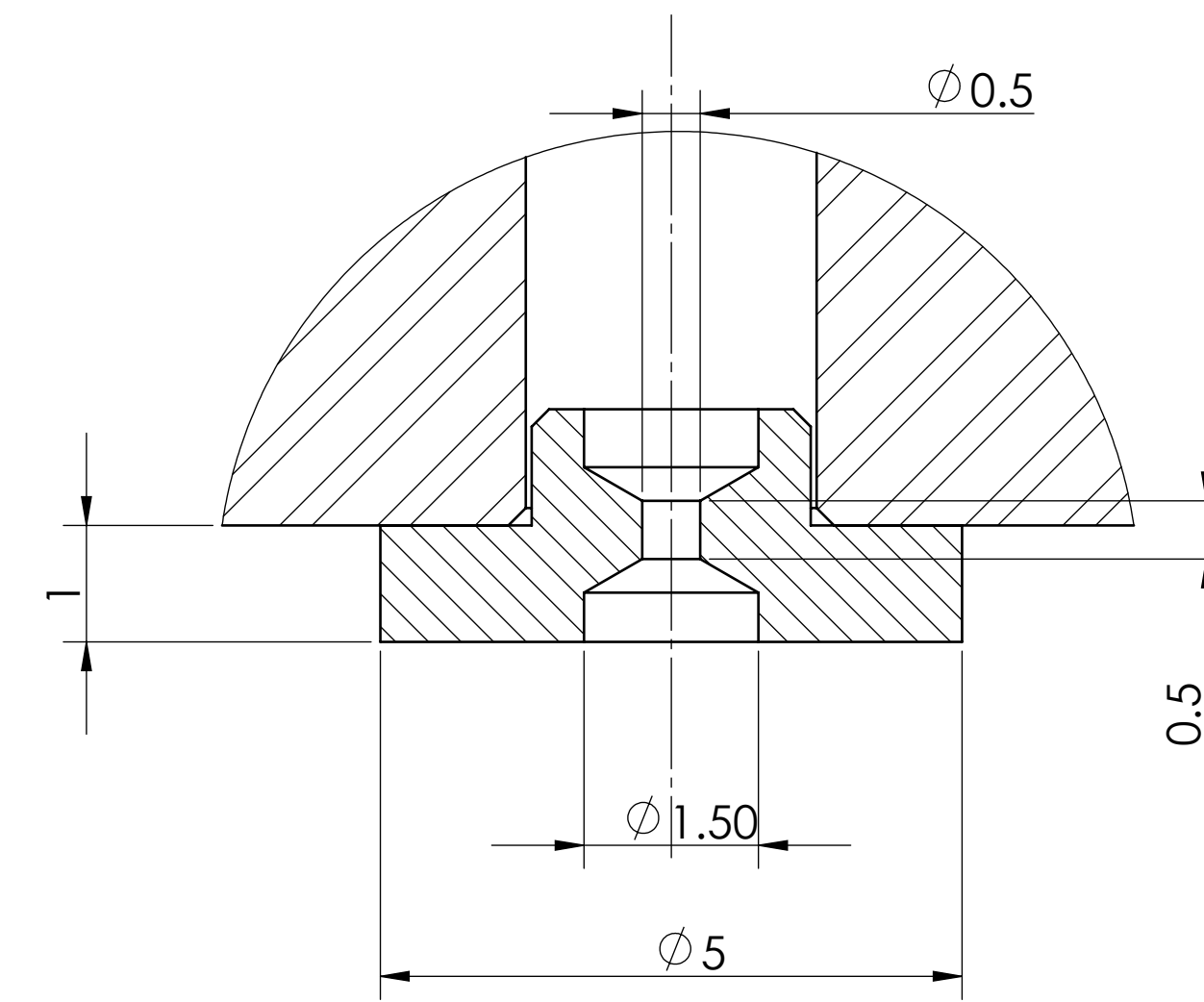
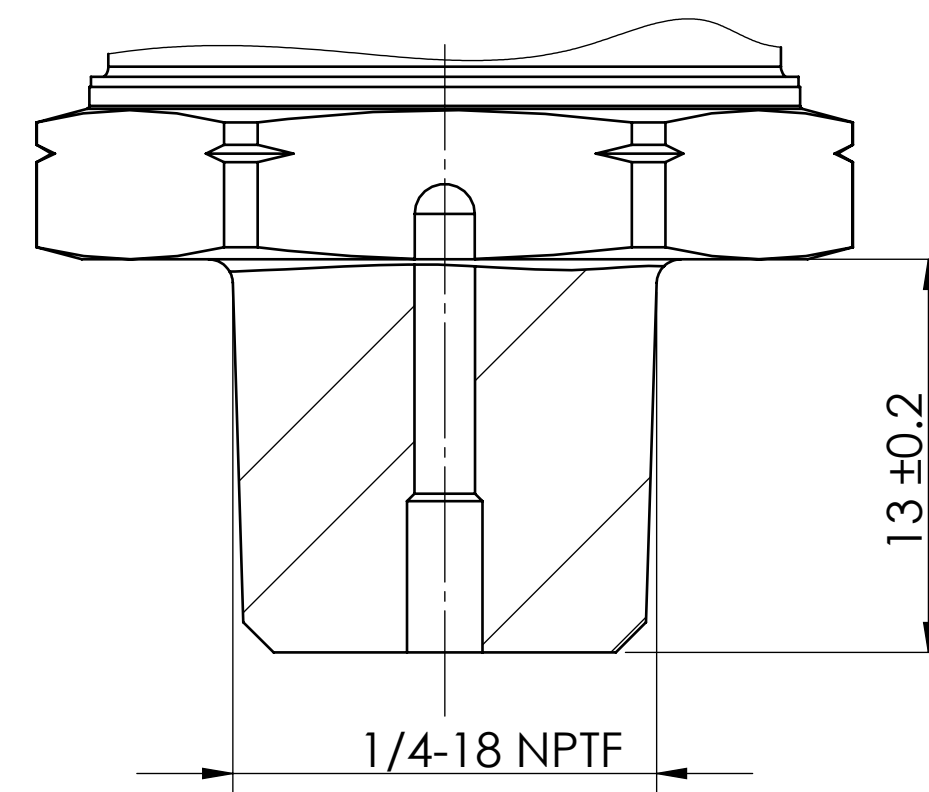
7/16-20 UNF J1926-3



1/4-19 PT (BSPT) (R1/4)



1/4-18 NPT



DETAIL A
SCALE 16 : 1

NOTE:

1. CUSTOMER SHOULD VERIFY IF THE SNUBBER CAN FIT IN THEIR APPLICATION/COUNTERPART.

