





FEATURES

- Heavy Industrial CE Approval
- 10 V/m EMI Protection
- Reverse Polarity Protection on Input
- Short Circuit Protection on Output
- ±0.25% Accuracy
- ±1.0% Total Error Band
- Compact Outline
- -40°C to +125°C Operating Temperature
- Weatherproof

APPLICATIONS

- Industrial Process Control and Monitoring
- Advanced HVAC Systems
- Refrigeration Systems
- Automotive Test Stands
- Off-Road Vehicles
- Pumps and Compressors
- Hydraulic/Pneumatic Systems
- Agriculture Equipment
- Energy Generation and Management

M5200 Industrial Pressure Transducer

SPECIFICATIONS

- Wide Temperature Range
- Compact
- Variety of Pressure Ports and Electrical Configurations
- Optional Stainless-Steel Snubber
- CE Compliant and Weatherproof
- UL Certified
- Gage, Sealed, Compound

The M5200 pressure transducers from the Microfused line of MEAS, with their modular design, offer maximum flexibility for different configurations. This latest series sets a new price performance standard for demanding commercial and heavy industrial applications. This series is suitable for measurement of liquid or gas pressure, even for difficult media such as contaminated water, steam, and mildly corrosive fluids.

The wetted material is made of either 17-4 PH or 316L stainless steel and the transducer's durability is excellent with no O-rings, welds or organics exposed to the pressure media. The M5200 is weatherproof and exceeds the latest heavy industrial CE requirements including surge protection. The circuit is protected from reverse wiring at input and short circuit at output.

This product is geared to the OEM customer for low to mid volumes. MEAS stands ready to provide a custom design of the M5200 where the volume and application warrants. Additional configurations not listed are either available or possible. Please inquire for further information.



STANDARD RANGES

Range (psi)	Range (Bar)	Gage	Sealed	Compound
0 to 050	0 to 3.5	•		•
0 to 100	0 to 007	•		•
	0 to 010	•		•
0 to 200		•		•
0 to 300	0 to 020	•		•
0 to 500	0 to 035	•		•
0 to 01k	0 to 070	•	•	•
0 to 03k	0 to 200	•	•	•
0 to 05k	0 to 350	•	•	•
0 to 07k	0 to 500	•	•	•
0 to 10k	0 to 700	•	•	•
0 to 15k	0 to 01k	•	•	•

Intermediate ranges available upon request



PERFORMANCE SPECIFICATIONS

Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS	MIN	ТҮР	MAX	UNITS	NOTES
Accuracy (combined non-linearity, hysteresis, and repeatability)	-0.25		0.25	%F.S.	BFSL
Isolation, Body to any Lead	100			MΩ	@500V _{DC}
Dielectric Strength			2	mA	@500V _{AC} , 1min
Pressure Cycles	1.00E+6			0~FS Cycles	
Proof Pressure	2X			Rated	
Burst Pressure	5X		20k psi	Rated	
Long Term Stability (1 year)	-0.25		0.25	%F.S.	
Total Error Band (17-4PH)	-1.0		1.0	%F.S.	Over compensated temperature range
Total Error Band (316L, ≤3k psi)	-1.5		1.5	%F.S.	Over compensated temperature range
Total Error Band (316L, >3k psi)	-2.0		2.0	%F.S.	Over compensated temperature range
Compensated Temperature	-20		+85	°C	
Operating Temperature	-40		+125	°C	Except cable 105°C max
Storage Temperature	-40		+125	°C	Except cable 105°C max
Load Resistance (R_L)	R _L > 100)k		Ω	Voltage Output
Load Resistance (R _L)	< (Supply Voltage	-9V) / 0.02A		Ω	Current Output
Current Consumption			5	mA	Voltage Output
Rise Time (10% to 90%)	<2ms (Voltage Output); <3ms (Current Outp	ut); Without	Snubber	
Wetted Material	17-4PH or 316L Stainless Stee	el Port, 316L S	Stainless Ste	el Snubber	
Gage Pressure Reference Vent	Under 1k psi, customer to ensu	ure venting the	rough mating	connector	
Bandwidth	DC to 1KHz (Typical)				
Shock	50g, 11msec Half Sine Shock	per MIL-STD-	202G, Metho	d 213B, Condition	A
Vibration	±20g, MIL-STD-810C, Procedu	ıre 514.2, Fig	514.2-2, Cu	rve L	

For custom configurations, consult factory.

Notes

Compensated Temperature: The temperature range over which the product will produce an output proportional to pressure within the specified performance limits.

Operating Temperature: The temperature range over which the product will produce an output proportional to pressure but may not remain within the specified performance limits.

Storage Temperature: The temperature range over which the product can be stored safely in occasions without pressure applied or power input and remains rated performance. Beyond this temperature range may cause permanent damage to the product. All configurations are built with supply voltage reverse and output short-circuit protections.

CE Compliance

EN 55022 Emissions Class A & B

IEC 61000-4-2 Electrostatic Discharge Immunity (8kV contact/15kV air)

IEC 61000-4-3 Radiated, Radio-Frequency Electromagnetic Field Immunity (10V/m, 80M-1GHz)

IEC 61000-4-4 Electrical Fast Transient Immunity (1kV)

IEC 61000-4-5 Surge Immunity (V+ to V-: ±2KV/42Ω; L to Case: ±1KV/12Ω; V- to V₀: ±1KV/42Ω)

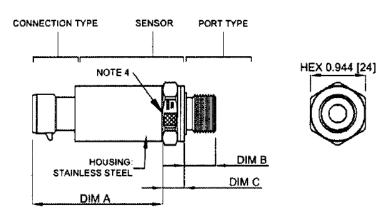
IEC 61000-4-6 Immunity to Conducted Disturbances Induced by Radio Frequency Fields (150K~80MHz, 10V level for voltage output models, 3V level for current output model)

IEC 61000-4-9 Pulse Magnetic Field Immunity (100A/m peak)

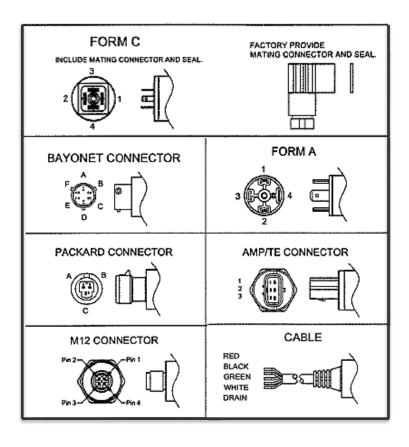
For all CE compliance tests, max allowed output deviation ±1.5 %F.S.



DIMENSIONS



Refer to installation instructions for recommended torque.



CODE	CONNECTION TYPE	DIM A
1	CABLE 2 FT	2.19 [55.6]
Е	CABLE 3 FT	2.19 [55.6]
2	CABLE 4 FT	2.19 [55.6]
3	CABLE 10 FT	2.19 [55.6]
4	PACKARD CONNECTOR A	2.25 [57.2]
5	BAYONET CONNECTOR	1.94 [49.5]
6	FORM C	1.95 [49.5]
7	FORM A1	2.10 [53.3]
8	FORM A2	2.10 [53.3]
В	FORM A3	2.10 [53.3]
9	PACKARD CONNECTOR B	2.25 [57.2]
D	M12 CONNECTOR	1.95 [49.5]
М	CABLE 1 M	2.19 [55.6]
N	CABLE 2 M	2.19 [55.6]
Р	CABLE 5 M	2.19 [55.6]
R	CABLE 10 M	2.19 [55.6]
Α	AMP CONNECTOR	2.24 [56.9]

PRESSURE PORT TYPE

CODE	PORT	DIM B	DIM C REF.
2	1/4-19 BSPP	0.547 [13.9]	0.366 [9.3]
3	G3/8 JIS B2351	0.615 [15.6]	0.366 [9.3]
4	7/16-20UNF MALE SAE J1926- 2 STRAIGHT THREAD O- RING BUNA-N 90SH-904	0.508 [12.9]	0.366 [9.3]
5	1/4-18 NPT	0.600 [15.2]	0.366 [9.3]
6	1/8-27 NPT	0.390 [9.91]	0.366 [9.3]
В	G1/4 JIS B2351	0.547 [13.9]	0.366 [9.3]
Е	1/4-19 BSPT	0.500 [12.7]	0.366 [9.3]
F	1/4-19 BSPP FEMALE (without snubber)	0.621 [15.8]	0.366 [9.3]
Р	7/16-20UNF FEMALE SAE J513 STRAIGHT THREAD WITH INTEGRAL VALVE DEPRESSOR	0.430 [10.9]	0.444 [11.3]
N	7/16-20UNF FEMALE SAE J513 STRAIGHT THREAD	0.430 [10.9]	0.444 [11.3]
Q	M10 x 1.0 mm ISO 6149-2	0.449 [11.4]	0.366 [9.3]
S	M12 x 1.5 mm ISO 6149-2	0.531 [13.5]	0.366 [9.3]
U	G/14 DIN 3852 FORM E GASKET DIN3869-14 NBR	0.519 [13.2]	0.366 [9.3]
W	M20 x 1.5 mm ISO 6149-2	0.551 [14.0]	0.441 [11.2]
G	M14 x 1.5 mm ISO 6149-2	0.531 [13.5]	0.366 [9.3]

Note:



WIRING

	Current Output Wiring										
CONNECTION	+SUPPLY	-SUPPLY	NC. PINS	P REF VENT							
Bayonet	А	В	C,D,E	F							
Packard, A	A	В	С	Hole Through Connector							
Packard, B	В	A	С	Hole Through Connector							
Cable	RED	BLK		In Cable							
M12	1	3	2,4	Hole Through Connector							
AMP/TE	1	2	3	Hole Through Connector							
FORM C	1	2	3,4	Threads Through Connector							
FORM A1	1	2	3,4	Threads Through Connector							

Voltage Output Wiring									
CONNECTION	+SUPPLY	+OUTPUT	COMMON	NC. PINS	P REF VENT				
Bayonet	А	В	С	D,E	F				
Packard, A	А	С	В		Hole Through Connector				
Packard, B	В	С	А		Hole Through Connector				
Cable	RED	WHT	BLK		In Cable				
M12	1	2	3	4	Hole Through Connector				
AMP/TE	1	3	2		Hole Through Connector				
FORM C	1	2	3	4	Threads Through Connector				
FORM A1	1	3	2	4	Threads Through Connector				
FORM A2	3	1	2	4	Threads Through Connector				
FORM A3	1	2	3	4	Threads Through Connector				

Notes:

NC pins are reserved for factory use only. **Customers should not use these connections**. For cable connection, the drain wire is internally terminated to pressure port. 1.

2.



CONNECTION TYPES

CONNECTION	DESCRIPTION	MATING HOUSING P/N	MATING TERMINAL P/N	RUBBER SEAL P/N
Bayonet	BAYONET PTIH-10-6P OR EQUIV	PT06A-10-6S MIL-C-26482	-	-
Packard	3-PIN METRI-PACK 150	12078090	12103881, QTY 3	-
M12	BINDER SERIES 713, 09 3431 77 04 OR EQUIV	4-POS FEMALE CONNECTOR	-	-
AMP/TE	AMP / TE 3-PIN ECONOSEAL J SERIES	174357-2 & 174358-7	171630-1 (AWG 20~24) 171662-1 (AWG 16~20) QTY 3	172746-1 (AWG 20~24) 172888-2 (AWG 16~20) QTY 3
FORM C	INDUSTRIAL STANDARD 9.4MM FORM C	HIRSCHMANN 933 024-100,OR, A TAM KD046000B7 (SEAL INCL.)	-	HIRSCHMANN 730 185-002
Form A1, A2, A3	DIN EN 175 301-803-A 18MM	HIRSCHMANN 931 969-100,OR, ATAM KA245000B4 (SEAL INCL.)	-	HIRSCHMANN 730 801-002

Note: Transmitter of gage pressure type requires vent to atmosphere on the pressure reference side. This is accomplished via cable from the transmitter (the end of the cable should be terminated to clean and dry area) or through the customer mating connector/cable assembly which has internal vent path.

Suggested vented M12 mating connector P/N MB12FWAFF04ST-4 and MB12FWAFF04ST-3 at <u>www.finecables.com</u> for 0.157"~0.236" and 0.236"~0.315" diameter cable respectively.

WEATHERPROOF

WEATHER-PROC	OF RATING
CONNECTION	IP CODE
Bayonet	IP67
Packard	IP66
Cable	IP67
M12	IP67
AMP/TE	IP67
FORM C	IP65
FORM A	IP65

Note: Weatherproof ratings are met when the mating connectors are installed properly, and the cable termination is to dry and clean area.

OUTPUTS

Code	Supply Voltage	Max Input Current	Output Signal	Pressure Rating		
Code	Supply Voltage	wax input current	Output Signal	psi	bar	
3	5 ± 0.25V, PROTECTED TO 30V	10mA	0.5V-4.5V RATIOMETRIC			
4	8 – 30V	10mA	1 – 5V			
5	9 – 30V	25mA	4 – 20mA			
6	8 – 30V	10mA	0 – 5V	50 – 15,000	3.5 – 1000	
7	12 – 30V	10mA	0 – 10V			
8	8 – 30V	10mA	1 – 6V			
9	5 – 30V	10mA	0.5 – 4.5V			



ORDERING INFORMATION

					M52 <u>6</u>	<u> </u>		<u>u u</u>				
											Pr	essure Reference
	Outp	ut –									G	Gauge
Code		Dutput									S	Sealed (≥1k psi)
3		o 4.5V					l		Pressure		С	Compound
4	1 to	ometric							PSI	BAR		
	_								STD	STD		
5	_	20mA							050P	3.5B		
6	0 to								100P	007B		
7	0 to								200P	010B		
8	1 to								300P	020B		
9	0.51	o 4.5V							500P	035B		
	Cor	nectors							01KP	070B		
Code		Connection							03KP	200B		
1		ole 2ft							05KP	350B		
Ē		ole 3ft							07KP	500B		
2	_	le 4ft							10KP	700B		
3		le 10ft							15KP	01KB		
4	_	kard Connecto	nr A						ompound press			
5		onet Connecto										C: -1 to 20barg) 1000bar) are all
6	,	m C	//						Change Press			
7		m A1							0			0,7
8		A2 *								Pressure P	ort	
В		n A3*						Code			ort	
9	-											
	Pac	kard Connecto	or B					2	1/4-19 BSPF)		
D		kard Connecto Connector	or B					2 3	1/4-19 BSPF G3/8 JIS B2			
-	M12		or B					3	G3/8 JIS B2	351	J1926	-2 Straight Thread
D	M12 Cat	2 Connector	or B					3 4	G3/8 JIS B2 7/16-20 UNF O-Ring Buna	351 Male SAE		
D M	M12 Cat	2 Connector le 1m	or B					3 4 5	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT	351 Male SAE		
D M N	M12 Cat Cat Cat	2 Connector le 1m le 2m	or B					3 4 5 6	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT	351 Male SAE a 90SH ID8.9		
D M N P	M12 Cat Cat Cat Cat	2 Connector Ile 1m Ile 2m Ile 5m Ile 10m	or B					3 4 5 6 B	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2	351 Male SAE a 90SH ID8.9		
D M N P R A	M12 Cat Cat Cat Cat Cat	2 Connector ole 1m ole 2m ole 5m ole 10m o Connector	or B					3 4 5 6 B E	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT	351 Male SAE a a 90SH ID8.9 351		
D M N P R A	M12 Cat Cat Cat Cat Cat	2 Connector Ile 1m Ile 2m Ile 5m Ile 10m	or B					3 4 5 6 B	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 1/4-19 BSPF	351 Male SAE a 90SH ID8.1 351 P Female	92xW1	I.83mm
D M N P R A Iy availa	M12 Cat Cat Cat Cat Am able for v	2 Connector ole 1m ole 2m ole 5m ole 10m o Connector	or B					3 4 5 6 B E	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 1/4-19 BSPT 7/16-20UNF	351 Male SAE 30SH ID8.1 351 Pemale Female SAI	92xW1	
D M N P R A Iy availa	M12 Cat Cat Cat Cat Am able for v	2 Connector ole 1m ole 2m ole 5m ole 5m ole 10m o Connector oltage output rt Material Description						3 4 5 6 8 E F	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 1/4-19 BSPT 7/16-20UNF w/ Integral V	351 Male SAE 30SH ID8.1 351 Female Female SAI alve Depres	92xW1 E J513 sor	3 Straight Thread
D M N P R A Ily availa	M12 Cat Cat Cat Cat Am able for v	2 Connector ale 1m ale 2m ale 5m ale 10m o Connector oltage output rt Material Description H Stainless St	eel					3 4 5 6 8 E F P	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 1/4-19 BSPT 7/16-20UNF w/ Integral V	351 Male SAE a 90SH ID8.9 351 Female Female SAI alve Depres Female SAI	92xW1 E J513 sor E J513	I.83mm
D M N P R A Iy availa	M12 Cat Cat Cat Cat Am able for v	2 Connector ole 1m ole 2m ole 5m ole 5m ole 10m o Connector oltage output rt Material Description	eel					3 4 5 6 8 E F P N	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 1/4-19 BSPF 7/16-20UNF w/ Integral V 7/16-20UNF	351 Male SAE a 90SH ID8.9 351 P Female Female SAI falve Depres Female SAI falve Depres	92xW1 E J513 sor E J513 2	3 Straight Thread
D M N P R A ly availa	M12 Cat Cat Cat Cat Am able for v	2 Connector ole 1m ole 2m ole 5m ole 10m o Connector oltage output rt Material Description 'H Stainless Steel	eel					3 4 5 6 8 E F P N Q	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 1/4-19 BSPT 7/16-20UNF w/ Integral V 7/16-20UNF M10X1.0mm M12X1.5mm G1/4 DIN 38	351 Male SAE a 90SH ID8.9 351 P Female Female SAI falve Depres Female SAI 1 ISO 6149-2 1 ISO 6149-2	92xW1 E J513 sor E J513 2	3 Straight Thread
D M N P R A Iy availa	M12 Cat Cat Cat Am able for v 17-4F 316L	2 Connector ole 1m ole 2m ole 5m ole 5m ole 10m o Connector oltage output rt Material Description rH Stainless Steel Stainless Steel	eel I					3 4 5 6 8 E F P N Q S U	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 1/4-19 BSPT 7/16-20UNF w/ Integral V 7/16-20UNF M10X1.0mm M12X1.5mm G1/4 DIN 38 NBR	351 Male SAE a 90SH ID8.9 351 P Female Female SAI alve Depres Female SAI 1SO 6149-2 1SO 6149-2 52 Form E 0	E J513 sor E J513 2 2 Gasket	3 Straight Thread 3 Straight Thread
D M N P R A Iy availa	M12 Cat Cat Cat Cat Am able for v	2 Connector ole 1m ole 2m ole 5m ole 5m ole 10m o Connector oltage output rt Material Description rH Stainless St Stainless Steel Clear No Selection		evel IV				3 4 5 6 8 E F P N Q S U U	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPF 7/16-20UNF w/ Integral V 7/16-20UNF M10X1.0mm M12X1.5mm G1/4 DIN 38 NBR M20X1.5mm	351 Male SAE a 90SH ID8.9 351 P Female Female SAI alve Depres Female SAI 1SO 6149-2 52 Form E C 1SO 6149-2	E J513 sor E J513 2 Gasket	3 Straight Thread 3 Straight Thread
D M N P R A Ily availa	M12 Cat Cat Cat Cat Am able for v Po 17-4F 316L	2 Connector ole 1m ole 2m ole 5m ole 5m ole 10m o Connector oltage output rt Material Description rH Stainless Steel Stainless Steel	eel I ning an B40.1 Lu	evel IV				3 4 5 6 8 E F P N Q S U U W G	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 1/4-19 BSPT 7/16-20UNF w/ Integral V 7/16-20UNF M10X1.0mm M12X1.5mm G1/4 DIN 38 NBR M20X1.5mm M14X1.5mm	351 Male SAE a 90SH ID8.1 351 Female Female SAI alve Depres Female SAI alve Depres Female SAI 1SO 6149-2 1SO 6149-2 1SO 6149-2	E J513 sor E J513 2 Gasket 2	3 Straight Thread 3 Straight Thread 3 Straight Thread t DIN3869-14
D M N P R A ly availa	M12 Cat Cat Cat Cat Am able for v Po 17-4F 316L	2 Connector le 1m le 2m le 5m le 5m le 10m o Connector oltage output rt Material Description 'H Stainless St Stainless Steel Clean No Selection Oxygen Clean	eel I ning an B40.1 La	evel IV				3 4 5 6 8 E F P N Q S U U W G	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 7/16-20UNF w/ Integral V 7/16-20UNF M10X1.0mm M12X1.5mm G1/4 DIN 38 NBR M20X1.5mm M14X1.5mm to online insta	351 Male SAE a 90SH ID8.9 351 Female Female SAI alve Depres Female SAI alve Depres Female SAI 1SO 6149-2 1SO 6149-2 1SO 6149-2 1SO 6149-2	E J513 sor E J513 2 Gasket 2 2 ction fo	3 Straight Thread 3 Straight Thread 3 Straight Thread t DIN3869-14
D M N P R A y availa	M12 Cat Cat Cat Cat Am able for v Po 17-4F 316L	2 Connector le 1m le 2m le 5m le 5m le 10m o Connector oltage output rt Material Description H Stainless Steel Clear No Selection Oxygen Clear With Snubbe	eel I ning an B40.1 Lo er Label					3 4 5 6 8 E F P N Q S U U W G	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 7/16-20UNF w/ Integral V 7/16-20UNF M10X1.0mm M12X1.5mm G1/4 DIN 38 NBR M20X1.5mm M14X1.5mm to online insta	351 Male SAE a 90SH ID8.9 351 Female Female SAI alve Depres Female SAI alve Depres Female SAI 1SO 6149-2 1SO 6149-2 1SO 6149-2 1SO 6149-2	E J513 sor E J513 2 Gasket 2 2 ction fo	3 Straight Thread 3 Straight Thread 3 Straight Thread t DIN3869-14
D M N P R A ly availa	M12 Cat Cat Cat Cat Am able for v Po 17-4F 316L	2 Connector le 1m le 2m le 5m le 5m le 10m o Connector oltage output rt Material Description PH Stainless Steel Clear No Selection Oxygen Clear With Snubbe	eel I ning an B40.1 Lo er Label	I Туре				3 4 5 6 8 E F P N Q S U U W G	G3/8 JIS B2 7/16-20 UNF O-Ring Buna 1/4-18 NPT 1/8-27 NPT G1/4 JIS B2 1/4-19 BSPT 7/16-20UNF w/ Integral V 7/16-20UNF M10X1.0mm M12X1.5mm G1/4 DIN 38 NBR M20X1.5mm M14X1.5mm to online insta	351 Male SAE a 90SH ID8.9 351 Female Female SAI alve Depres Female SAI alve Depres Female SAI 1SO 6149-2 1SO 6149-2 1SO 6149-2 1SO 6149-2	E J513 sor E J513 2 Gasket 2 2 ction fo	3 Straight Thread 3 Straight Thread



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NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company Phone: +1 800-522-6752 Email: customercare.frmt@te.com

EUROPE

Measurement Specialties (Europe), Ltd., a TE Connectivity Company Phone: +31 73 624 6999 Email: <u>customercare.lcsb@te.com</u>

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company Phone: +86 0400-820-6015 Email: <u>customercare.shzn@te.com</u>