





### **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 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	МАХ	UNITS	NOTES
Accuracy (combined non-linearity, hysteresis, and repeatability)	-0.25		0.25	%F.S.	BFSL
Isolation, Body to any Lead	100			MΩ	@500V <sub>DC</sub>
Dielectric Strength			2	mA	@500V <sub>AC</sub> , 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
KTotal 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 <sub>L</sub> > 100	)k		Ω	Voltage Output
Load Resistance (RL)	< (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	l Port, 316L S	Stainless Ste	el Snubber	
Gage Pressure Reference Vent	Under 1k psi, customer to ensu	ire venting thi	ough 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	ire 514.2, Fig	514.2-2, Cu	ve 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
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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 V<sub>0</sub>: ±1KV/42Ω)

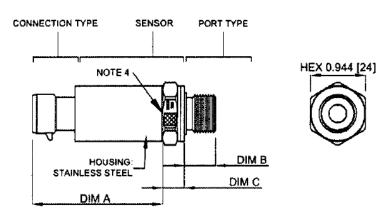
IEC 61000-4-6 Immunity to Conducted Disturbances Induced by Radio Frequency Fields (150K~80MHz, 10V level for voltage output models, 3V level for current output model)

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

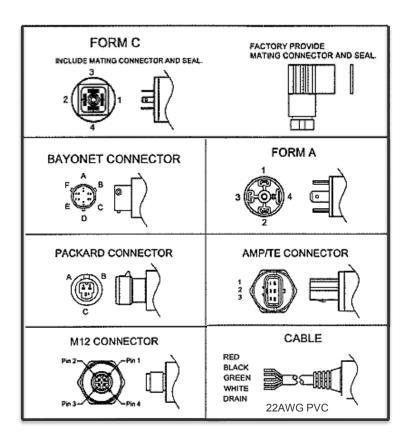
For all CE compliance tests, max allowed output deviation ±1.5 %F.S.



# 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]
Ν	N CABLE 2 M	
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 ( O-RING not provided by TE)	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]
E	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	G1/4 DIN 3852 FORM E, GASKET DIN3869-14 NBR (Gasket not provided by TE)	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	CONNECTION +SUPPLY +OUTPUT COMMON 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	DNNECTION 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-PROOF 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	upply Voltage Max Input Current		Pressure Rating		
Code	e Supply Voltage Max Input Curre		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		50 – 15,000	3.5 – 1000	
6	8 – 30V	8 – 30V 10mA 0 – 5V				
7	12 – 30V	10mA	0 – 10V			
8	8 – 30V	8 – 30V 10mA 1 – 6V				
9	5 – 30V	10mA	0.5 – 4.5V			



### ORDERING INFORMATION

1 $Cab   e 2   e  $ E $Cab   e 3   e  $ 2 $Cab   e 4   a  $ 3 $Cab   e 1   a  $ 4 $Pa < kard  $ 5 $Ba > ret  $ 6Form C7Form A18Form A39 $Pa < kard  $ DM12 ConMCab   e 1   a  NCab   e 2   a  PCab   e 1   a  NCab   e 1   a  <			M52 <u>6 1</u>	- <u>1 0</u> 00 <u>-</u>	<u>1 2 – 100</u>	<u>0P G</u>				
CodeOutp3 $0.5$ to 4.5 Rationel41 to 5V54 to 20m60 to 5V70 to 10V81 to 6V9 $0.5$ to 4.5Contrological Strain Stra									PI	essure Reference
30.5 to 4.5 Rationel41 to $5V$ 54 to $20m$ 60 to $5V$ 70 to $10V$ 81 to $6V$ 90.5 to 4.5CodeConc1Cable 21ECable 312Cable 413Cable 413Cable 114Packard5Bayonet6Form C7Form A18Form A39PackardDM12 ConMCable 11NCable 21PCable 51RCable 51Q017-4PH Si1316L Stair	0								G	Gauge
3Ratiomed Ratiomed41 to 5V54 to 20m60 to 5V70 to 10V81 to 6V90.5 to 4.5CodeCon1Cable 21ECable 312Cable 413Cable 104Packard5Bayonet6Form C7Form A18Form A39PackardDM12 ConMCable 11NCable 21PCable 51RCable 51AAmp CoOnly available for voltag017-4PH S11316L Stair0No1O									S	Sealed (≥1k psi)
4     1 to 5V       5     4 to 20m       6     0 to 5V       7     0 to 10V       8     1 to 6V       9     0.5 to 4.5       Concert       Code     Concert       1     Cable 21       E     Cable 31       2     Cable 41       3     Cable 41       3     Cable 10       4     Packard       5     Bay-met       6     Form A2       B     Form A3       9     Packard       D     M12 Coo       M     Cable 11       N     Cable 21       P     Cable 51       R     Cable 51							Pressure	Ranges	С	Compound
5     4 to 20m       6     0 to 5V       7     0 to 10V       8     1 to 6V       9     0.5 to 4.5       Concert       Code     Con       1     Cable 21       E     Cable 21       E     Cable 21       E     Cable 21       E     Cable 31       2     Cable 41       3     Cable 41       3     Cable 41       3     Cable 41       3     Cable 11       4     Packard       5     Bay-met       6     Form A3       9     Packard       D     M12 Con       M     Cable 11       N     Cable 21       P     Cable 51       R     Cable 51       Q     17-4PH S1       1     316L Stair       0     Nc							PSI	BAR		
6     0 to 5V       7     0 to 10V       8     1 to 6V       9     0.5 to 4.5       Connection       Code     Connection       1     Cable 21       E     Cable 31       2     Cable 41       3     Cable 41       3     Cable 41       3     Cable 41       3     Cable 11       4     Packard       5     Bayonet       6     Form A3       9     Packard       D     M12 Con       M     Cable 11       N     Cable 21       P     Cable 21       P     Cable 21       P     Cable 51       R     Cable 51       Q     17-4PH S1       1     316L Stair       0     17-4PH S1       1     Cable 51       Q     Nc <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>STD 050P</th> <th><b>STD</b> 3.5B</th> <th></th> <th></th>							STD 050P	<b>STD</b> 3.5B		
70 to $10V$ 81 to $\in V$ 90.5 to 4.5CodeContentCodeContentCodeContent1Cable 21ECable 312Cable 312Cable 413Cable 114Packard5Bay-met6Form C7Form A18Form A39PackardDM12 ConMCable 11NCable 21PCable 51RCable 51BDO17-4PH S11316L Stair	-						100P	007B		
8     1 to 6V       9     0.5 to 4.5       9     0.5 to 4.5       Code     Con       1     Cable 21       E     Cable 31       2     Cable 41       3     Cable 41       4     Packard       5     Bay-met       6     Form C       7     Form A3       9     Packard       D     M12 Con       M     Cable 11       N     Cable 21       P     Cable 51       R     Cable 51       R     Cable 51       R     Cable 51       Q     Nc Cable 51       A     Amp Co       Only available for voltag       0     17-4PH S1       1     316L Stair       0     Nc       1     Ox <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>200P</th> <th>007B</th> <th></th> <th></th>							200P	007B		
9   0.5 to 4.5     Code   Connect     Code   Connect     1   Cable 21     E   Cable 31     2   Cable 31     2   Cable 41     3   Cable 10     4   Packard     5   Bayonet     6   Form C     7   Form A1     8   Form A3     9   Packard     D   M12 Con     M   Cable 20     P   Cable 20     P   Cable 20     P   Cable 21     P   Cable 51     R   Cable 51     R   Cable 51     R   Cable 51     Q   D     0   17-4PH S1     1   316L Stair     0   Nc     0   Nc     1   Ox							200P	020B		
ConnectCodeConnect1Cable 2fECable 3f2Cable 4f3Cable 1f4Packard5Bayonet6Form C7Form Af8Form Af9PackardDM12 ConMCable 1fNCable 2fPCable 2fPCable 2fPCable 1fNCable 2fPCable 5fRCable 1fAAmp CoOnly available for voltagOnly available for voltag017-4PH Sf1316L Stair0Nc1ONcNc1O							500P	035B		
Code $\Box$ 1 $Cab  \in 21$ E $Cab  \in 31$ 2 $Cab  \in 41$ 3 $Cab  \in 10$ 4 $Packard$ 5 $Bay$ -net6 $Form C$ 7 $Form A1$ 8 $Form A3$ 9 $Packard$ DM12 ConMCab  = 10NCab  = 20P $Cab  = 50$ R $Cab  = 50$ R $Cab  = 10$ A $Amp$ CoOnly available for voltagOnly available for voltagO1 $316L$ Stair0 $17-4PH$ Si1 $316L$ StairONc1 $O$							01KP	070B		
1 $Cable 2d$ E $Cable 3d$ 2 $Cable 4d$ 3 $Cable 1d$ 4 $Packard$ 5 $Bay-net$ 6Form C7Form A18Form A39 $Packard$ DM12 ConMCable 1nNCable 2nPCable 5nRCable 5nRCable 10AAmp CoOnly available for voltag017-4PH St1316L Stair0Nc1ONCable 100Nc1316L Stair	nnectors						03KP	200B		
E     Cable 3t       2     Cable 10       3     Cable 10       4     Packard       5     Bayonet       6     Form C       7     Form A1       8     Form A3       9     Packard       D     M12 Con       M     Cable 1n       N     Cable 2n       P     Cable 5n       R     Cable 5n       R     Cable 5n       R     Cable 10       A     Amp Co       Only available for voltag       0     17-4PH St       1     316L Stair       0     Nc       1     O	Connection						05KP	350B		
2   Cable 44     3   Cable 10     4   Packard     5   Bayonet     6   Form C     7   Form A1     8   Form A3     9   Packard     D   M12 Con     M   Cable 10     M   Cable 20     P   Cable 50     R   Cable 10     A   Amp Co     Only available for voltag     Code   D     0   17-4PH Si     1   316L Stair     0   Nc     1   O	ole 2ft						07KP	500B		
3   Cable 10     4   Packard     5   Bayonet     6   Form C     7   Form A1     8   Form A2     B   Form A3     9   Packard     D   M12 Con     M   Cable 10     M   Cable 20     P   Cable 20     P   Cable 50     R   Cable 10     A   Amp Co     Only available for voltag     Only available for voltag     0   17-4PH Stair     1   316L Stair     0   Nc     1   O	ole 3ft						10KP	700B		
4   Packard     5   Bayonet     6   Form C     7   Form A1     8   Form A2     B   Form A3     9   Packard     D   M12 Con     M   Cable 1n     N   Cable 2n     P   Cable 5n     R   Cable 5n     R   Cable 10     A   Amp Co     Only available for voltag     0   17-4PH Si     1   316L Stair     0   Nc     1   O	ole 4ft						15KP	01KB		
5   Bayonet     6   Form C     7   Form A1     8   Form A2     B   Form A3     9   Packard     D   M12 Con     M   Cable 1n     N   Cable 2n     P   Cable 5n     R   Cable 5n     R   Cable 10     A   Amp Co     Only available for voltag     0   17-4PH Si     1   316L Stair     0   Nc     1   O	ole 10ft					Note: C	-	-	1 7 to	xxxpsig or -1 to
6     Form C       7     Form A1       8     Form A2       B     Form A3       9     Packard       D     M12 Cor       M     Cable 1r       N     Cable 2r       P     Cable 5r       R     Cable 10       A     Amp Cor       Only available for voltag       Only available for voltag       Only 17-4PH Si       1     316L Stair       0     Nc       1     O	kard Connector A									C: -1 to 20barg)
7   Form A1     8   Form A3     9   Packard     D   M12 Cool     M   Cable 11     N   Cable 50     R   Cable 10     A   Amp Cool     Only available for voltag     Code   D     0   17-4PH Si     1   316L Stair     0   Nc     1   O	onet Connector					Pressure	Ranges betwee	en 50-15000ps	i (3.5- <sup>-</sup>	1000bar) are all
8   Form A2     B   Form A3     9   Packard     D   M12 Con     M   Cable 1n     N   Cable 2n     P   Cable 5n     R   Cable 10     A   Amp Co     Only available for voltag     O   17-4PH Si     1   316L Stair     0   Nc     1   O	m C					available.	Change Press	sure Number A	ccordi	ngly
B   Form A3     9   Packard     D   M12 Cool     M   Cable 1r     N   Cable 2r     P   Cable 5r     R   Cable 10     A   Amp Cool     Only available for voltag     Only available for voltag     Only available for voltag     0   17-4PH Si     1   316L Stair     0   Nc     1   O							Pressure Port			
9   Packard     D   M12 Con     M   Cable 1n     N   Cable 2n     P   Cable 5n     R   Cable 10     A   Amp Co     Only available for voltag     O   17-4PH St     1   316L Stain     0   Nc     1   O						Code			ort	
D   M12 Col     M   Cable 1     N   Cable 2     P   Cable 5     R   Cable 1     A   Amp Co     Only available for voltag     Code   D     0   17-4PH St     1   316L Stair     0   Nc     1   O						2	1/4-19 BSPI			
M   Cable 11     N   Cable 21     P   Cable 51     R   Cable 10     A   Amp Co     Only available for voltag     Code   D     1   316L Stair     0   Nc     1   O	kard Connector B					3	G3/8 JIS B2			
N       Cable 2t         P       Cable 5t         R       Cable 1t         A       Amp Co         Only available for voltag       D         Code       D         0       17-4PH Star         1       316L Star         0       Nc         0       Nc         1       O	2 Connector						7/16-20 UN	F Male SAE	J1926	-2 Straight Thread
P   Cable 5n     R   Cable 10     A   Amp Co     Only available for voltag     Code     D   17-4PH Si     1   316L Stair     0   Nc     0   Nc     1   Ox						4			92xW	1.83mm (O-ring
R   Cable 10     A   Amp Co     Only available for voltag     Port Ma     Code   D     0   17-4PH Si     1   316L Stair     0   Nc     1   O						_	not provided			
A Amp Co Only available for voltag Port Ma Code D 0 17-4PH Si 1 316L Stair 0 Nc 1 Ox						5	1/4-18 NPT			
Only available for voltag Port Ma Code D 0 17-4PH Si 1 316L Stair 0 Nc 1 Ox						6 B	1/8-27 NPT			
Port Ma         Code       D         0       17-4PH St         1       316L Stair         0       No         1       O	·,	1				E	G1/4 JIS B2351 1/4-19 BSPT			
Code       D         0       17-4PH St         1       316L Stair         0       No         1       0	oltage output					F	1/4-19 BSP			
Code       D         0       17-4PH St         1       316L Stair         0       No         1       0	rt Motorial								E.151	3 Straight Thread
0 17-4PH Stair 1 316L Stair 0 No 1 Ox						Р	w/ Integral \			o otraight innoud
1 316L Stair 0 No 1 Ox	Description					N				3 Straight Thread
0 No 1 Ox	Description					Q	M10X1.0mn	n ISO 6149-2	2	
<b>1</b> Ox	PH Stainless Steel					S	M12X1.5mn	n ISO 6149-2	2	
<b>1</b> Ox						U				t DIN3869-14
	PH Stainless Steel					W	NBR (Gaske			IE)
	PH Stainless Steel Stainless Steel	10.1 Level IV				W G	M20X1.5mn	n ISO 6149-2 n ISO 6149-2		
	PH Stainless Steel Stainless Steel Cleaning				N-					r rocommonded territ
	PH Stainless Steel Stainless Steel Cleaning No Selection									•
	PH Stainless Steel Stainless Steel Cleaning No Selection Oxygen Clean B4 With Snubber				i ins	stallation ins	Suucions are a	valiable on our	websit	e in <u>English</u> and <u>Unines</u>
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	PH Stainless Steel Stainless Steel Cleaning No Selection Oxygen Clean B4									or recommended torque e in <u>English</u> and <u>Chinese</u>



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