

Pressure Switch Technical Selection Guide

The following summary is a guide for selection of your pressure switch. Should your requirements exceed the parameters listed, we encourage you to contact us with your application needs.

SERIES	1166P	1173P	1184P	1193P	1194P	1203P	1205P	1206P	1225P
OPERATING PARAMETERS									
APPLICATION									
Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Hydraulic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pneumatic	<input type="checkbox"/>				<input type="checkbox"/>	<input checked="" type="checkbox"/>			
TYPE OF SWITCH									
Absolute		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>				
Differential	<input type="checkbox"/>								
Gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vacuum	<input checked="" type="checkbox"/>		<input type="checkbox"/>						
SET POINT RANGE									
.5" to 70" HgA					<input type="checkbox"/>				
.5" to 100" H ₂ O/VAC/Diff	1" min		VACUUM						
3 to 70 psid									
2 to 250 psig									
.5 to 300 psia				5 to 105 pisa					
.5 to 1000 psig/psid		15 to 105 psig							
7 to 2500 psig/psid									
40 to 4500 psig								40 to 2400 psig	
400 to 4500 psig							400 to 2400 psig		
500 to 4500 psig						500 to 3500 psig			
50 to 12,750 psig									50 to 7500 psig
DEADBAND									
8% to 45%	.5" min H2O 10" max								
10% to 45%						100 psi min			30 psi min
15% to 45%		3.5 psi min	3" H2O min	3.5 psi min	1.5" Hg min		100 psi min	20 psi min	
PROOF PRESSURE									
50 psig					<input type="checkbox"/>				
100 psig	<input type="checkbox"/>								
150 psig			<input type="checkbox"/>						
300 psia/g		<input type="checkbox"/>		<input type="checkbox"/>					
500 psig									
1000 psig									
3000 psig									
4500 psig						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7500 psig									
12000 psig						<input checked="" type="checkbox"/>			
15000 psig									<input type="checkbox"/>

ELECTRICAL CONNECTION

All units are supplied with electrical connection to mate with MS3106-10SL-3S, however, units are readily available with wire leads or other MS/QPL receptacles.

= STANDARD = OPTION

Pressure Switch Technical Selection (continue)

SERIES (cont)	1166P	1173P	1184P	1193P	1194P	1203P	1205P	1206P	1225P
ELECTRICAL RATING 28 VDC									
1amp resistive				<input type="checkbox"/>					
3 amp inductive			<input type="checkbox"/>						<input type="checkbox"/>
5 amp resistive			<input type="checkbox"/>						<input type="checkbox"/>
4 amps inductive	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 amps resistive	<input type="checkbox"/>	<input type="checkbox"/>							
5 amps inductive									
10 amps resistive									
Dry Circuit	●	●	●	●	●	●	●	●	●
LIFE EXPECTANCY									
25,000 - 50,000									
75,000 - 100,000		<input type="checkbox"/>		<input type="checkbox"/>					
100,000 - 150,000	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>				
250,000 - 500,000						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEMPERATURE RANGE (AMBIENT)									
-65°F to + 160°F					<input type="checkbox"/>				
-65°F to + 275°F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-65°F to + 350°F			●				●	●	●
-65°F to + 400°F		●							
-65°F to + 450°F						●			
TEMPERATURE RANGE (MEDIA)									
-65°F to + 160°F					<input type="checkbox"/>				
-65°F to + 275°F	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-65°F to + 400°F		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>			
VIBRATION (0-2000 HERTZ G's)									
0 - 10	5 G's Max		●		<input type="checkbox"/>				<input type="checkbox"/>
0 - 15		<input type="checkbox"/>		<input type="checkbox"/>	●	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
0 - 25		● *		● *		●	● *	● *	
Hermetically Sealed Electrical	●	<input type="checkbox"/>	●	<input type="checkbox"/>	●	●	●	●	●
Pressure Sensing Area - Metal	●		●						
Pressure Sensing Area - Non-metal	<input type="checkbox"/>		<input type="checkbox"/>						
Welded diaphragm		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>				
Piston						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Port Material									
Aluminum	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>			
PRESSURE CONNECTION									
MS33656E4		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MS33656E10 (mod)									
MS33649-04	<input type="checkbox"/>		<input type="checkbox"/>						<input type="checkbox"/>
WEIGHT (OUNCES)									
2		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8					<input type="checkbox"/>				<input type="checkbox"/>
12			<input type="checkbox"/>						
16	<input type="checkbox"/>								

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* = Up to 100 g's at 2000 to 5000 Hz with shunt disc.