

## 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	1103P	1105P	1106P	1115P	1125P	1144P	1153P	1156P	1163P	1164P
<b>OPERATING PARAMETERS</b>										
<b>APPLICATION</b>										
Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic	●	●	●	●	●	●	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
Pneumatic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>TYPE OF SWITCH</b>										
Absolute										
Differential							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gauge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		●	●
Vacuum							●		●	
<b>SET POINT RANGE</b>										
.5" to 70" HgA										
.5" to 100" H <sub>2</sub> O/VAC/Diff						5" min			<input type="checkbox"/>	5" min diff
3 to 70 psid										
2 to 250 psig				2 to 70 psig						
.5 to 300 psia										
.5 to 1000 psig/psid	5 to 105 psig						5 to 105 psid			
7 to 2500 psig/psid		7 to 280 psig	7 to 1000 psig					7 to 280 psid		
40 to 4500 psig					3000 psig max					
400 to 4500 psig										
500 to 4500 psig										
50 to 12,750 psig										
<b>DEADBAND</b>										
8% to 45%		3.5 psi min		0.5 psi min	5 psi min					
10% to 45%			5 psi min					5 psi min		
15% to 45%	3.5 psi min					3" H <sub>2</sub> O min	3.5 psi min		2 psi min	3" H <sub>2</sub> O min
<b>PROOF PRESSURE</b>										
50 psig										
100 psig										
150 psig						<input type="checkbox"/>				<input type="checkbox"/>
300 psia/g	<input type="checkbox"/>						<input type="checkbox"/>			
500 psig									<input type="checkbox"/>	
1000 psig				<input type="checkbox"/>						
3000 psig								<input type="checkbox"/>		
4500 psig	●	<input type="checkbox"/>					●			
7500 psig					<input type="checkbox"/>					
12000 psig										
15000 psig										

### 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)	1103P	1105P	1106P	1115P	1125P	1144P	1153P	1156P	1163P	1164P
<b>ELECTRICAL RATING 28 VDC</b>										
1amp resistive										
3 amp inductive				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
5 amp resistive										
4 amps inductive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>		
7 amps resistive										
5 amps inductive				●	●	●			●	●
10 amps resistive										
Dry Circuit	●	●	●	●	●	●	●	●	●	●
<b>LIFE EXPECTANCY</b>										
25,000 - 50,000										
75,000 - 100,000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
100,000 - 150,000				<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
250,000 - 500,000										
<b>TEMPERATURE RANGE (AMBIENT)</b>										
-65°F to + 160°F										
-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"/>	<input type="checkbox"/>	<input type="checkbox"/>
-65°F to + 350°F			●	●	●	●				●
-65°F to + 400°F	●	●					●	●	●	
-65°F to + 450°F										
<b>TEMPERATURE RANGE (MEDIA)</b>										
-65°F to + 160°F										
-65°F to + 275°F						<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"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
<b>VIBRATION (0-2000 HERTZ G's)</b>										
0 - 10				<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Welded diaphragm	<input type="checkbox"/>						<input type="checkbox"/>			
Piston										
Port Material										
Aluminum		<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	●		
<b>PRESSURE CONNECTION</b>										
MS33656E4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			→			
MS33656E10 (mod)								<input type="checkbox"/>		
MS33649-04		●	●	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
<b>WEIGHT (OUNCES)</b>										
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>		
8				<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>			
12						<input type="checkbox"/>				<input type="checkbox"/>
16									<input type="checkbox"/>	

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

→ = High pressure port to MS33657E4