

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
OPERATING PARAMETERS										
APPLICATION										
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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>
TYPE OF SWITCH										
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"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Vacuum							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
SET POINT RANGE										
.5" to 70" HgA										
.5" to 100" H ₂ 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										
DEADBAND										
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 ₂ O min	3.5 psi min		2 psi min	3" H ₂ O min
PROOF PRESSURE										
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 checked="" type="checkbox"/>	<input type="checkbox"/>					<input checked="" 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
ELECTRICAL RATING 28 VDC										
1amp resistive										
3 amp inductive				□	□	□			□	
5 amp resistive										
4 amps inductive	□	□	□				□	□		
7 amps resistive										
5 amps inductive				●	●	●			●	●
10 amps resistive										
Dry Circuit	●	●	●	●	●	●	●	●	●	●
LIFE EXPECTANCY										
25,000 - 50,000										
75,000 - 100,000	□	□	□		□		□	□		
100,000 - 150,000				□		□			□	□
250,000 - 500,000										
TEMPERATURE RANGE (AMBIENT)										
-65°F to + 160°F										
-65°F to + 275°F	□	□	□	□	□	□	□	□	□	□
-65°F to + 350°F			●	●	●	●				●
-65°F to + 400°F	●	●					●	●	●	
-65°F to + 450°F										
TEMPERATURE RANGE (MEDIA)										
-65°F to + 160°F										
-65°F to + 275°F						□			□	□
-65°F to + 400°F	□	□	□	□	□		□	□		
VIBRATION (0-2000 HERTZ G's)										
0 - 10				□	□	●			□	●
0 - 15	□	□	□		●		□	□		
0 - 25	●*	●*	●*				●*	●*		
Hermetically Sealed Electrical	●	●	●	●	●	●	●	□	□	●
Pressure Sensing Area - Metal				●		●			●	●
Pressure Sensing Area - Non-metal		□	□	□	□	□		□	□	□
Welded diaphragm	□						□			
Piston										
Port Material										
Aluminum		□	□	□	□	□		□	□	□
Stainless Steel	□	●		●	●		□	●		
PRESSURE CONNECTION										
MS33656E4	□	□	□	□			↗			
MS33656E10 (mod)								□		
MS33649-04		●	●	□	□	□			□	□
WEIGHT (OUNCES)										
2	□	□	□					□		
8				□	□		□			
12						□				□
16									□	

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

↗ = High pressure port to MS33657E4

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