

Ashcroft® Switches**PIP #: SW-PI-70A**

Applicable to:

EIGHT STEPS TO SELECTING A PRESSURE, DIFFERENTIAL PRESSURE OR TEMPERATURE SWITCH

Ashcroft offers several different pressure, differential pressure and temperature switch models. This guide will help you select the best model for your application. In many cases there may be more than one choice, so the lower cost option is usually the best choice. As a guideline a NEMA 7 rated switch will cost more than a NEMA 4 rated switch. A Stainless Steel housing will cost more than a die cast Aluminum or Brass housing. A dual chamber design more than the standard housing.

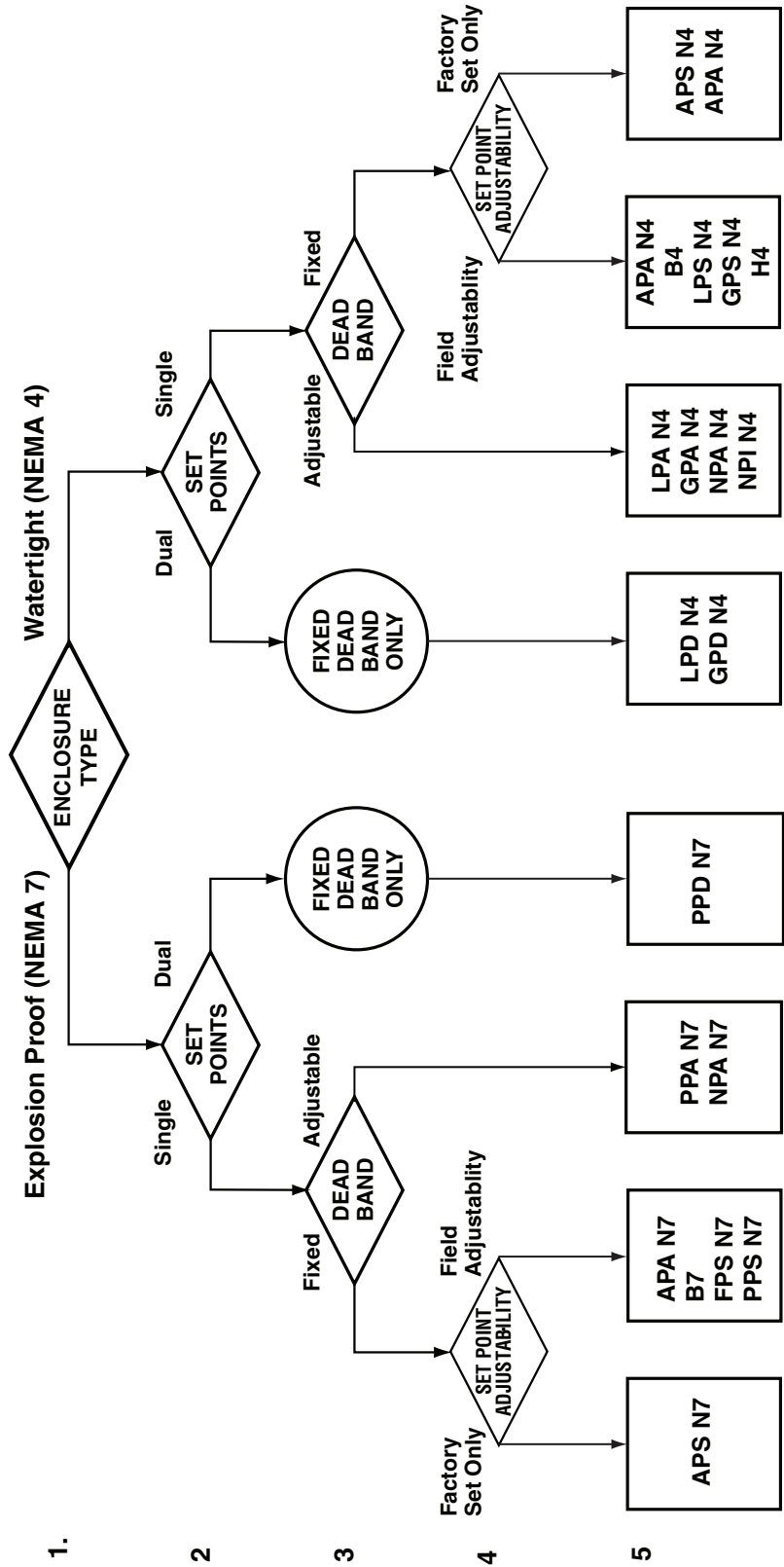
The Eight Steps:

1. Does the applications require an Explosion Proof (NEMA 7) housing or a Watertight (NEMA 4) housing?
2. Do you need single or dual set points?
3. Do you need fixed or adjustable dead band?
4. Do you need an adjustable set point switch or a factory set only switch (this step is only for Pressure Switches)?
5. Select the appropriate switch model listed in the step 5 boxes in the pressure, differential pressure or temperature switch selection charts. This selection would be based on comparing the basic size and features of the switch models listed in the box based on your choices for the first 4 steps. Refer to the appropriate switch product matrix or catalog page for more information on the switch models.
6. Determine the operation range needed from the appropriate switch model range charts.
7. Select the appropriate micro switch based on your electrical requirements and deadband requirements.
8. Select the wetted materials and process connection based on your process media and piping.

At this point you should be able to build the appropriate switch part number by following the “How to order this switch” section on the appropriate catalog page. Additional switch options should also be added to the part number.

PRESSURE SWITCH SELECTION

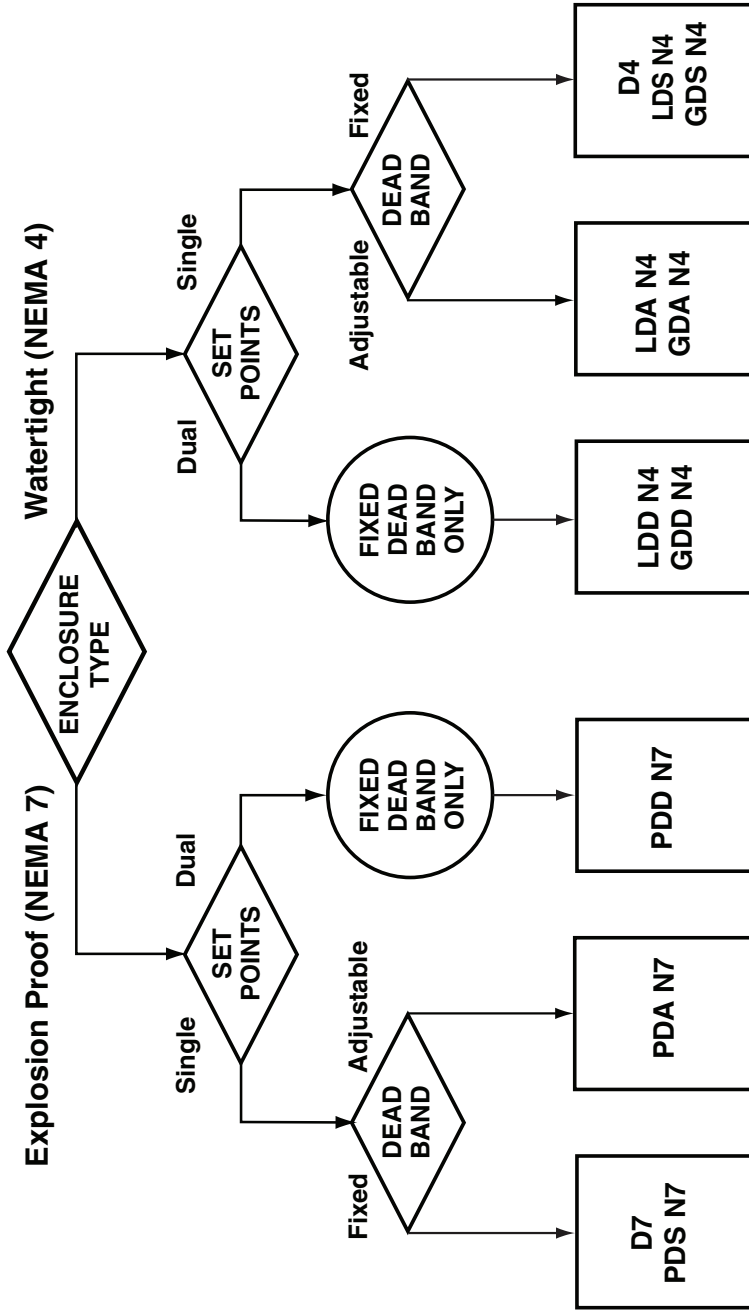
STEP NUMBER



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DIFFERENTIAL PRESSURE SWITCH SELECTION

STEP NUMBER



1.


2.

3.

4.

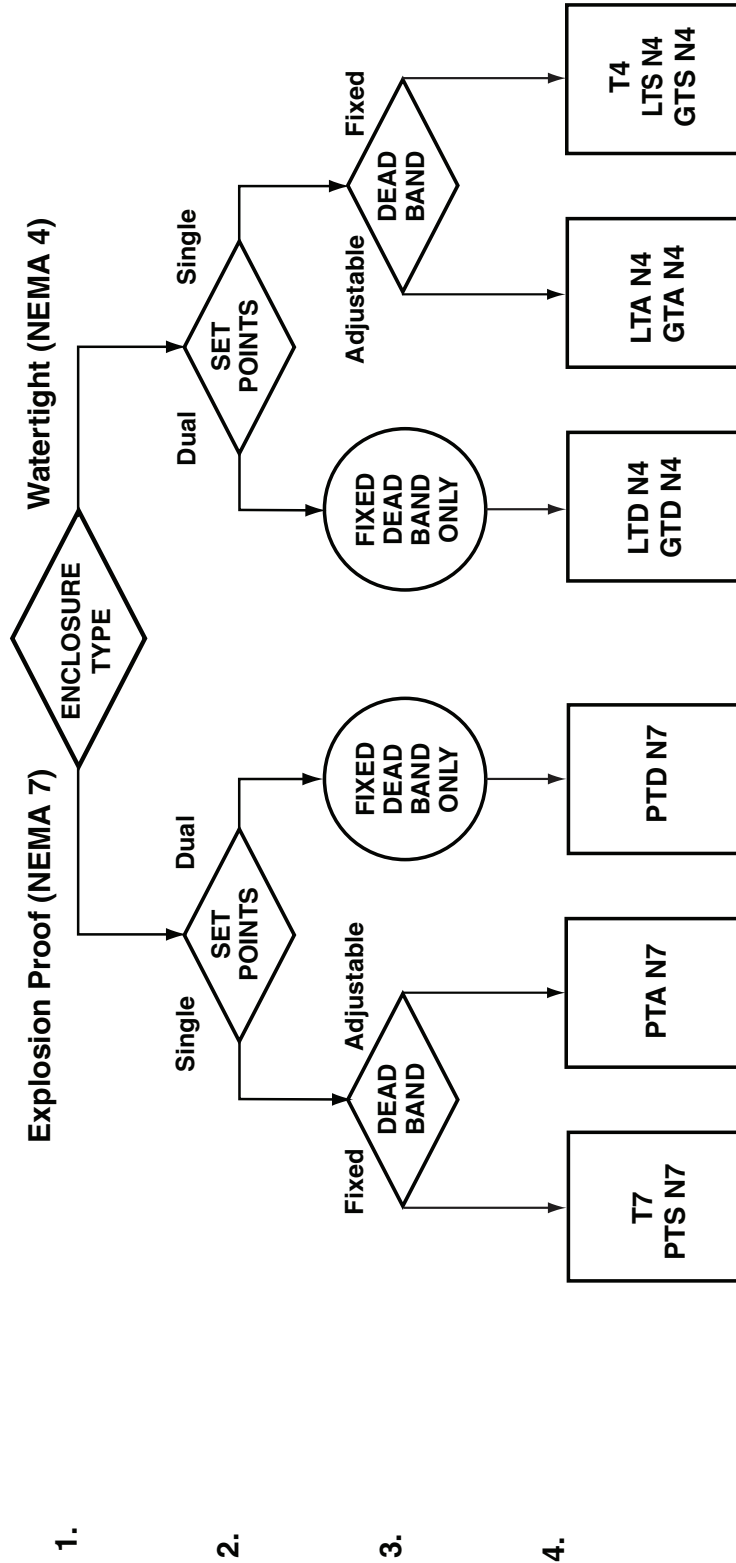
5. Determine the operation range needed from the appropriate switch model range charts.
 6. Select the appropriate micro switch based on your electrical requirements and dead band requirements.
 7. Select the wetted materials and process connection based on your process media and piping.
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DIFFERENTIAL PRESSURE SWITCH PRODUCT MATRIX

	ENCLOSURE / PROCESS INPUT	CONTROL FUNCTION	SWITCH TYPE	WETTED MATERIAL	RANGES
	D4	Single Fixed Setpoint	Hermetically Sealed	Stainless Steel	0-600 psi
	D7	Single Adjustable Setpoint	Hermetically Sealed	Stainless Steel	0-400 psi
	PDA	Adjustable Deadband	Hermetically Sealed	Stainless Steel	0-600 psi
	PDD	Two Indep. Adjust. Setpoints	Hermetically Sealed	Stainless Steel	0-600 psi
	PDS	Fixed Deadband	Hermetically Sealed	Stainless Steel	0-600 psi
	LDA	Adjustable Deadband	Relay	Teflon	0-600 psi
	LDD	Two Indep. Adjust. Setpoints	Relay	Teflon	0-600 psi
	LDS	Fixed Deadband	Relay	Teflon	0-600 psi
	GDA	Adjustable Deadband	Manual Reset	Viton	0-600 psi
	GDD	Two Indep. Adjust. Setpoints	Manual Reset	Viton	0-600 psi
	GDS	Fixed Deadband	Manual Reset	Viton	0-600 psi
		Single Fixed Setpoint	Relay	Buna	0-600 psi
		Single Adjustable Setpoint	Relay	Buna	0-600 psi
		Adjustable Deadband	Relay	Buna	0-600 psi
		Two Indep. Adjust. Setpoints	Relay	Buna	0-600 psi
		Fixed Deadband	Relay	Buna	0-600 psi
		General Purpose	Relay	Buna	0-600 psi
		Narrow Deadband	Relay	Buna	0-600 psi
		Hermetically Sealed	Relay	Buna	0-600 psi
		Manual Reset	Relay	Buna	0-600 psi
		Relay	Relay	Buna	0-600 psi
		DPDT	Relay	Buna	0-600 psi
		Compound Inches of Water	Relay	Buna	0-600 psi
		Inches of Water	Relay	Buna	0-600 psi
		Compound	Relay	Buna	0-600 psi
		0-400 psi	Relay	Buna	0-600 psi
		0-600 psi	Relay	Buna	0-600 psi
		1000 psi	Relay	Buna	0-600 psi
		2000 psi	Relay	Buna	0-600 psi
		3000 psi	Relay	Buna	0-600 psi
		4000 psi	Relay	Buna	0-600 psi
		5000-20,000 psi	Relay	Buna	0-600 psi
		-40-750°F	Relay	Buna	0-600 psi

TEMPERATURE SWITCH SELECTION

STEP NUMBER



1. Determine the operation range needed from the appropriate switch model range charts.
 2. Select the appropriate micro switch based on your electrical requirements and dead band requirements.
 3. Select the wetted materials and process connection based on your process media and piping.
- At this point you should be able to build the appropriate switch part number by following the “How to order this switch” section on the appropriate catalog page. Additional switch options should also be added to the part number.