

Overview

The **DPS52A** is an adjustable differential pressure switch engineered for diverse monitoring and control applications. It provides a reliable, low-maintenance alternative to mechanical paddle flow switches, particularly in chiller systems where it eliminates the need for frequent yearly replacements.

Features

- Adjustable differential pressure switch for variable pressure applications.
- Replaces paddle flow switches; no yearly chiller replacements needed.
- Triggers alarms/cutoffs at preset flow values for auto control.
- Compact design fits tight spaces reliably.
- Detects pressure differences in filters, pumps, heat exchangers, chillers.
- Indicates pump/filter status.

Applications

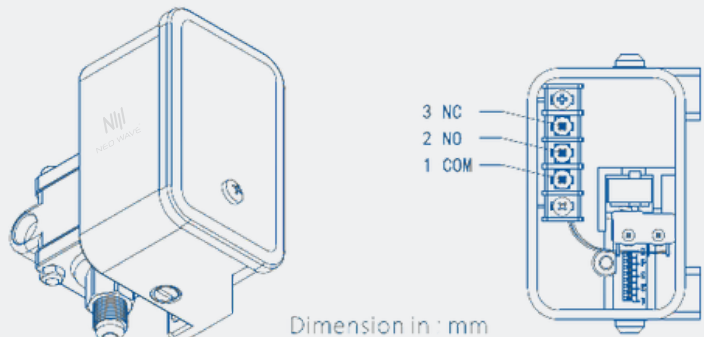
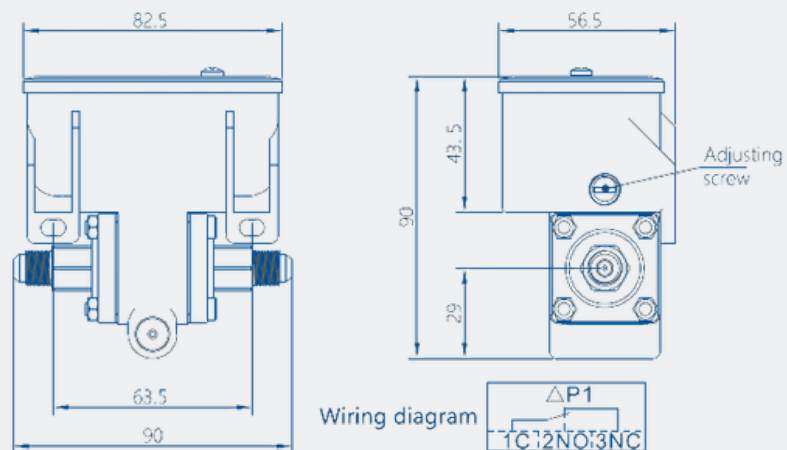
- Water filters and purification systems.
- Pumps and pump stations.
- Heat exchangers and chillers.
- HVAC systems and industrial water circuits.
- Monitoring pump or filter status for system diagnostics.

DPS52A

Differential Pressure Switch



Dimensions



Specifications

Differential Pressure Switch

Medium	Water, air, oil, and other non-corrosive media
Contact	Single group SPDT (microswitch)
Electrical Specifications	3A 250VAC / 5A 125VAC
Ambient Temperature	-20°C to 71°C
Medium Temperature	-20°C to 93°C (fluid)
Maximum Allowable Static Pressure	16 bar
Maximum Allowable Differential Pressure	10 bar
Set Point Repeatability Deviation	±1%
Protection Class	IP54
Optional Accessories (default if not required)	Converted capillary

Working pressure

Adjustable	Model	Differential Pressure Adjustable Range (kPa)	Return Difference (kPa)	One Turn Variation (kPa)
Working Pressure	52A-15	5 – 15	3 ± 1	1
	52A-30	5 – 30	3 ± 1	2.2
	52A-70	6 – 70	3 ± 1	5.5
	52A-100	6 – 100	5 ± 1	6.5
	52A-200	10 – 200	6 ± 1	16
	52A-300	20 – 300	7 ± 1	25
	52A-400	30 – 400	8 ± 1	38

Selection Code

Code and description					Remark
DPS52A	Differential Pressure Switch				Model
15	5 – 15 kPa (50 – 150 mbar)				Adjustable Range
30	5 – 30 kPa (50 – 300 mbar)				
70	6 – 70 kPa (60 – 700 mbar)				
100	6 – 100 kPa (60 – 1,000 mbar)				
200	10 – 200 kPa (100 – 2,000 mbar)				
300	20 – 300 kPa (200 – 3,000 mbar)				
400	30 – 400 kPa (300 – 4,000 mbar)				
1	Brass				Connector Material
2	SS 316L				
1	7/16" UNF Female				Connector Thread
2	7/16" UNF Male				
3	R1/4" Male				
4	G1/4" Male				
5	1/4" NPT Male				
6	Connect φ8 soft tube				
7	Connect φ6 steel pipe				
1	Plastic Gland PG9				Wiring Protection
2	Plated Gland PG16				
DPS52A	30	1	1	1	Selection Example