Pressure Switch
Type : PST3

Applications

Hydraulics and mobile hydraulics.
Pneumatics.
Heavy Duty machinery.
All compressed air, liquids or gases.

Technical Data

Mechanical Connection	: 1/8" BSP, 1/4" BSP, 1/8"' BSPT, 1/4"' BSPT M10x1, M12x1.5, 1/8" NPT, 1/4" NPT.
Reproducibility	: ±3% of adjusted pressure
Working Temperature	: -40°C ...+85°C [-40°F ...+185°F]
Vibration Test (DIN EN 60068-2-27)	: 20g (Test Time 30 min)
Shock Test (DIN EN 60068-2-27:1993)	: 30g
Working Cycle	: 5,000,000 cycles
Viscosity	: Between 10 ... 800 mm^2/sec
Electrical Connection Feature	: 250 VAC 5A

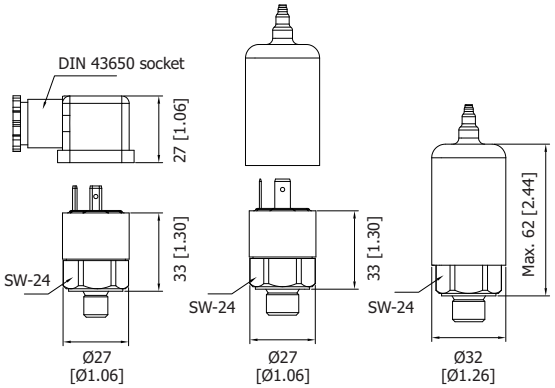
Description

PST3 Series Pressure Switch opens and closes electrical circuit depending on pressure increase or decrease. Working pressure is adjustable between 0.2 bar and 400 bar [2.9 psi to 5802 psi]. System has adjustable feature while system is working. These switches can be used under all compressed air, liquids or gases.

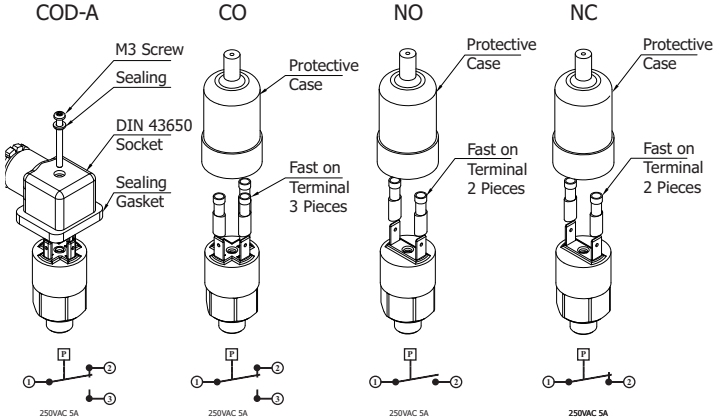
Features

- Compact and economic design.
- NO/NC Socket and fast-on connection options.
- Reproducibility of pressure switch is ±3%.
- Body material is steel as Standard. Also available in stainless steel & brass.
- Standard switch is with NBR Seals with EPDM, HNBR & Viton as options.

Dimensions



Electrical Connection types



Dimensions in mm [inch]

Ordering Code

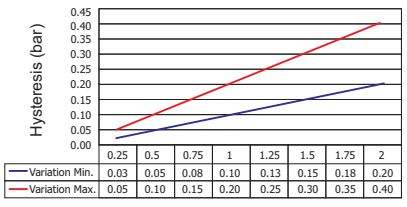
1	2	3	4	5	6
PST3	**002**	**G02M**	**C**	**P**	**NO**

1	**Series**	Pressure Switch - Threaded with Internal setting screw	**= PST3**
2	**Pressure Range**	0.2 to 2 bar [2.9 to 29 psi]	**= 002** Pmax=40 bar [580.2 psi]
		1 to 12 bar [14.5 to 174 psi]	**= 012**
		5 to 100 bar [72.5 to 1450 psi]	**= 100** Pmax=600 bar [8702 psi]
		20 to 200 bar [290.1 to 2901 psi]	**= 200**
		50 to 400 bar [725.2 to 5802 psi]	**= 400**
3	**Connection**	1/8" BSP(M)	**= G01M**
		1/4" BSP(M)	**= G02M** (standard)
		1/8" BSPT(M)	**= T01M**
		1/4" BSPT(M)	**= T02M**
		M10x1.0(M)	**= M42M**
		M12x1.5(M)	**= M43M**
		1/8" NPT(M)	**= N01M**
		1/4" NPT(M)	**= N02M**
4	**Body**	Steel	**= C** (standard)
		Brass	**= B**
		SS316L	= **X**
5	**Sealing**	NBR/Nitrile	**= P** (standard)
		Viton	**= V**
		EPDM	**= E**
		HNBR	**= K**
6	**Electrical Connection**	Normally Open - with Cap	**= NO**
		Normally Closed - with Cap	**= NC**
		Change-Over - with Cap	**= CO**
		Change-Over - with DIN Socket - Form A	**= COD-A**

* Before ordering, check for availability.

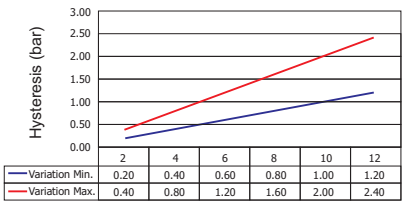
Pressure Difference Variation Graphs

Working Pressure : Adjustable between 0.2-2 bar [2.9 to 29 psi]
Max. System Pressure : 40 bar [580.2 psi]
Type : Diaphragm



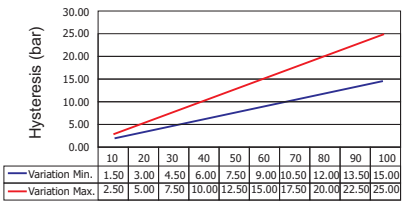
	0.25	0.5	0.75	1	1.25	1.5	1.75	2
Variation Min.	0.03	0.05	0.08	0.10	0.13	0.15	0.18	0.20
Variation Max.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40

Working Pressure : Adjustable between 1-12 bar [14.5 to 174 psi]
Max. System Pressure : 40 bar [580.2 psi]
Type : Diaphragm



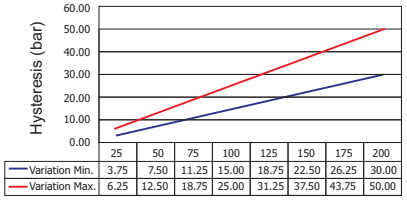
	2	4	6	8	10	12
Variation Min.	0.20	0.40	0.60	0.80	1.00	1.20
Variation Max.	0.40	0.80	1.20	1.60	2.00	2.40

Working Pressure : Adjustable between 5-100 bar [72.5 to 1450 psi]
Max. System Pessure : 600 bar [8702 psi]
Type : Piston



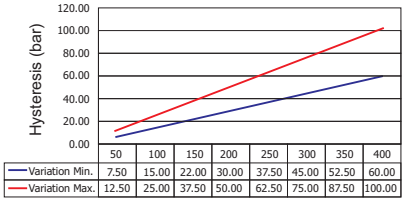
	10	20	30	40	50	60	70	80	90	100
Variation Min.	1.50	3.00	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00
Variation Max.	2.50	5.00	7.50	10.00	12.50	15.00	17.50	20.00	22.50	25.00

Working Pressure : Adjustable between 20-200 bar [290.1 to 2901 psi]
Max. System Pressure : 600 bar [8702 psi]
Type : Piston



	25	50	75	100	125	150	175	200
Variation Min.	3.75	7.50	11.25	15.00	18.75	22.50	26.25	30.00
Variation Max.	6.25	12.50	18.75	25.00	31.25	37.50	43.75	50.00

Working Pressure : Adjustable between 50-400 bar [725.2 to 5802 psi]
Max. System Pressure : 600 bar [8702 psi]
Type : Piston



	50	100	150	200	250	300	350	400
Variation Min.	7.50	15.00	22.00	30.00	37.50	45.00	52.50	60.00
Variation Max.	12.50	25.00	37.50	50.00	62.50	75.00	87.50	100.00

Notes

These values are maximum values and can not be used at the same time.
For use in aggressive chemicals / fluids contact us.
Clearances as per standards of Hydraulic oils (fluids) to be strictly followed.
For effective & long working life of pressure switches it is advised to use proper filtration in the system.
Please avoid using out of range values to have a long service from pressure switch.

EPE Process Filters & Accumulators Pvt. Ltd., Techni Towers, C-54/A, APIE, Balanagar, Hyderabad - 500 037, Telangana, INDIA
Ph : +91 40 23778803 | Fax : +91 40 23871447 | business@epe-india.com | www.epe-india.com