

# WAAREE



## Z Series Pressure & DP Switches

- Compact & Sleek
- High Repeatability
- Wide Pressure Range
- DIN Connector
- Setpoint Locking
- Accurate Scale



**Z Series Pressure switches**, the most reliable product, are from **Waaree Instruments Ltd.**, the one stop, Instrumentation Solution Company. The unique mechanism actuated by Diaphragm Sealed piston actuated, delivers greater repeatability of +/- 0.5% and +/- 1% FSR. The 1 or 2 SPDT, DPDT microswitches, of Silver contact, Gold contact, Hermetically sealed are offered across all the ranges with Fixed or Adjustable Deadband. Wide choice of Sensor material, offers excellent compatibility of most corrosive medias, combined with Weatherproof and Explosionproof enclosure.

Larger span of scale, its High accuracy, the locking facility of Setpoint, DIN connector for easy wiring are the main features of this Z series, Pressure & DP Switches. These switches finds its applications, like, Lubrication systems, Filters, Degreasers, Boilers, Compressors, Heat Tracing, Food Industry, Fire fighting, Bottling plants, Blowers, Burners, Heat Exchangers, Pumps etc. Also, featured with the Piston sensor for very High ranges to cater to specific Industrial segment like Hydraulics, Machines Tools, Power packs, Earth Moving equipments, Trash compactors etc.

**Z series Differential Pressure switches** are offered in as low as 0.5 mbar and upto 25 Kg/cm<sup>2</sup> to suit various Industrial applications, and packed with high static pressure upto 100 kg/cm<sup>2</sup>,

## RANGE & SENSOR

TABLE A

Range Code	Range		Proof @ Pressure	Sensor Type		Sensor Material					Type	
	mbar	Bar		D	P	S	SL	T	V	O	Pr.	D.P.
WC20	-20 to 20		2	*		*	*	*	*	#	*	-
WC40	-40 to 40		2	*		*	*	*	*	#	*	-
W005	0.5 to 5		2	*		*	*	*	*	#	*	*
W020	3 to 20		2	*		*	*	*	*	#	*	*
W100	10 to 100		2	*		*	*	*	*	#	*	*
W250	25 to 250		2	*		*	*	*	*	#	*	*
W400	40 to 400		2	*		*	*	*	*	#	*	*
W600	60 to 600		2	*		*	*	*	*	#	*	*
V001		-1 to 0	15	*		*	*	*	*	#	*	-
C005		-0.5 to +0.5	15	*		*	*	*	*	#	*	-
C011		-1 to +1	15	*		*	*	*	*	#	*	-
C012		-1 to +2	15	*		*	*	*	*	#	*	-
P001		0.1 to 1.1	15	*		*	*	*	*	#	*	*
P002		0.2 to 2	15	*		*	*	*	*	#	*	*
P004		0 to 4	18	*		*	*	*	*	#	*	*
P006		0 to 6	18	*		*	*	*	*	#	*	*
P010		0 to 10	22	*		*	*	*	*	#	*	*
P016		0.3 to 16	36	*		*	*	*	*	#	*	*
P025		2 to 25	36	*		*	*	*	*	#	*	*
P032		2 to 32	60	*		*	*	*	*	#	*	-
P040		2 to 40	75	*		*	*	*	*	#	*	-
P060		5 to 60	150	*		*	*	*	*	#	*	-
P100		10 to 100	225	*	*	*	*	*	*	#	*	-
P250		10 to 250	450	*	*	*	*	*	-	#	*	-
P400		40 to 400	450	*	*	*	*	*	-	#	*	-
P600		60 to 600	750	*	*	*	*	*	-	#	*	-

Sensor ; D - Diaphragm Sealed Piston actuated, P - Piston actuated.

Sensor Material : S - SS316, SL - SS316L, T - Teflon, V - Viton, O - Others (Buna, Kapton, Hastelloy C, Monel)

# - Consult factory.

@ - Enhanced Proof Pressure can be offered on request.



## TECHNICAL DATA

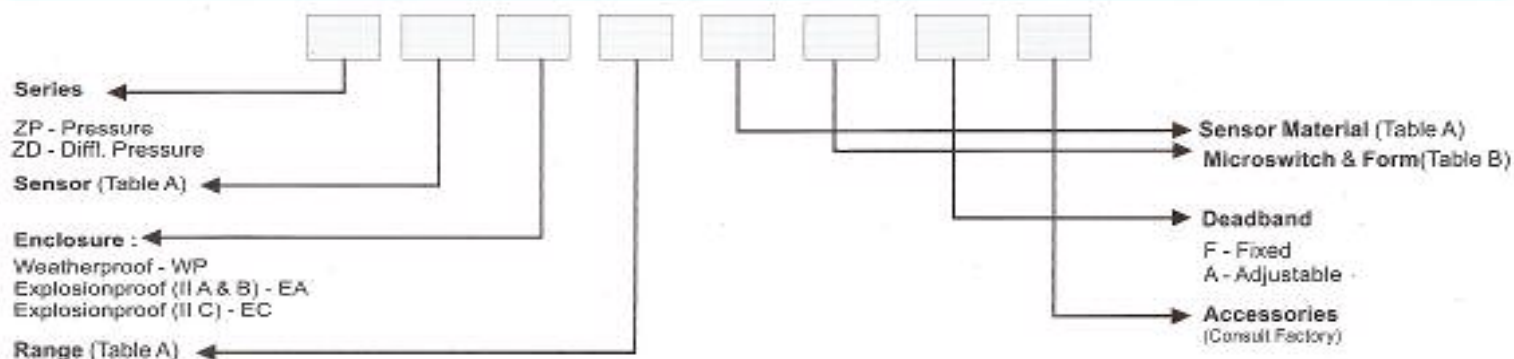
Enclosure	Weatherproof to IP66 as per IS 13947, Explosion proof to Gas group II A, B & C, as per IS 2148.
Material Diaphragm Pressure port Enclosure	SS316 Standard, for other options please refer Table A SS316 Standard, for other options consult factory. Diecast Aluminium. .
Measuring principle	Diaphragm sealed Piston actuated for range upto 60 Bar Piston actuated from range of 100 bar to 600 bar.
Process connection	¼" NPT F standard, other options shall be provided with an Adaptor.
Conduit Entry	DIN Connector as Standard - for 1 SPDT PG 13.5 mm for 2 SPDT. Cable glands & 7 Pin Plug in socket available on request.
Dead band	Fixed, 2% to 5%, 7.5% of FSR Adjustable 15% max - for 1 SPDT only.
Repeatability	+/- 1 % of FSR as standard +/- 0.5% of FSR on request.
Scale Accuracy Setpoint Locking mechanism	Provided +/- 3% of FSR Setpoint adjustment through out the range Tamperproof Locking facility provided.
Electrical Type Form Rating	Snap action Silver plated Microswitch. Gold plated on request. 1 or 2 SPDT, DPDT Refer Table B

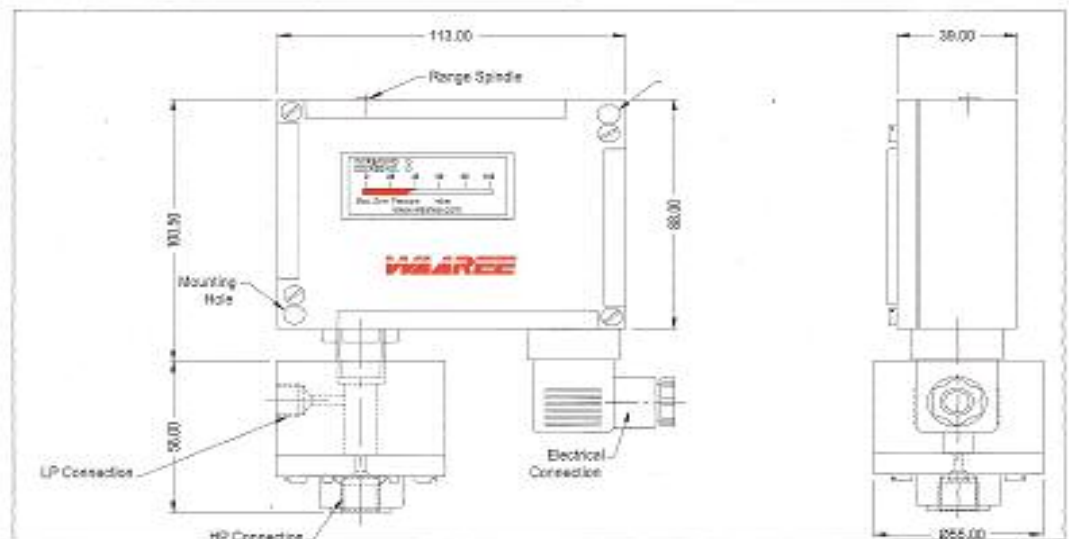
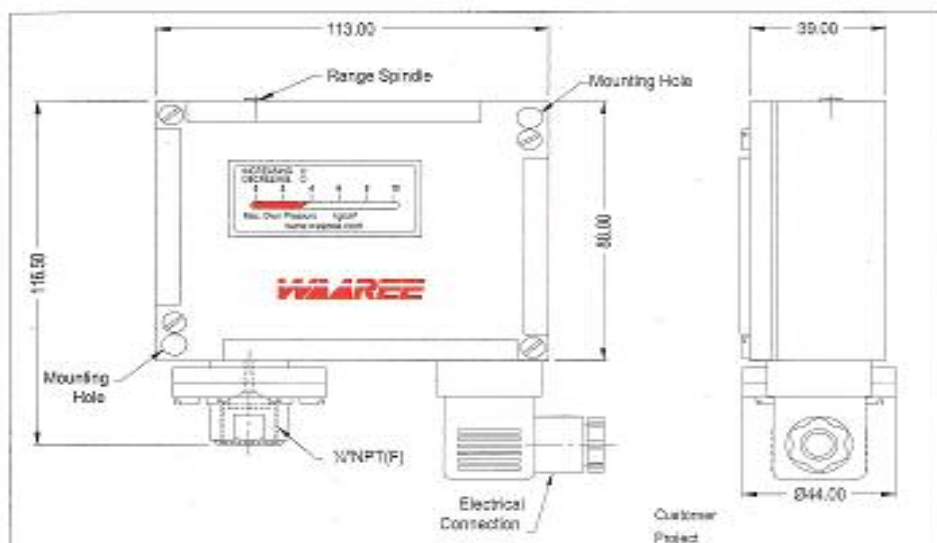
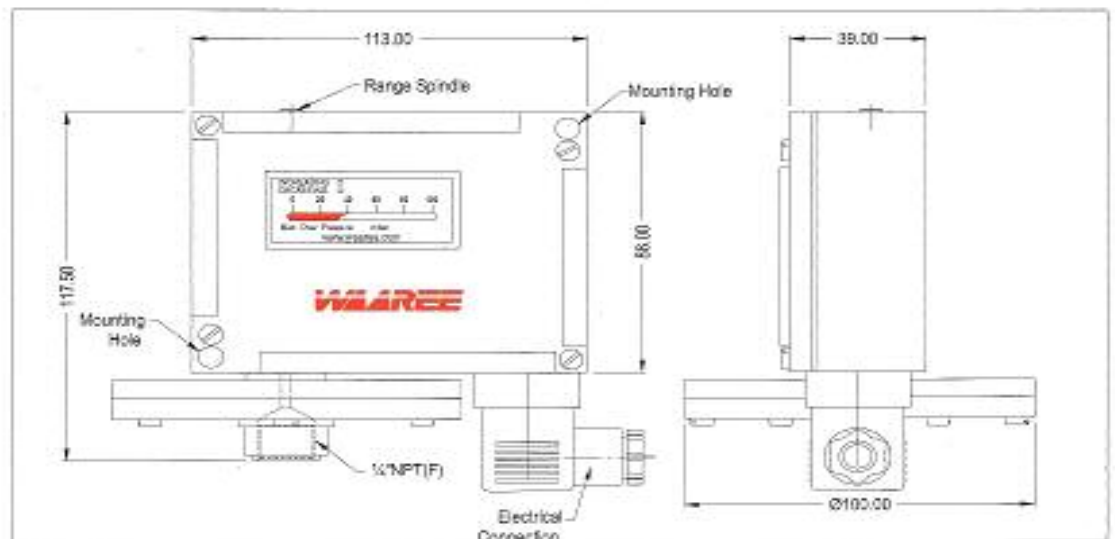
## ELECTRICAL FORM AND RATING

TABLE B

Switch Code	Description	Current Rating	SPDT Form	
			1	2
GPL	General Purpose Low Dead Band	15 A @ 250 VAC, 0.2A Res @ 220 VDC	*	*
GPH	General Purpose High Dead Band	15 A @ 250 VAC, 0.2A Res @ 220 VDC	*	*
HSS	Hermetically Sealed Silver Contacts	5A 125 / 250 VAC, 2.5 A 28 VDC	*	*
HSG	Hermetically Sealed Gold Contacts	1 A @ 125 VAC, 0.5 A 24 VDC	*	*
SES	Sealed Environment Proof Silver	15 A 125 / 250 VAC, 0.4 A 125 VDC	*	*
SEG	Sealed Environment Proof gold	1 A 28 VDC	*	*
DPD	Double pole Double Throw	10 A @ 250 VAC, 0.2a Res @ 250 VDC	*	DPDT
HDC	High DC rating	10 A @ 125 VAC, 10A Res, 6A IND @ 125 VDC	*	*
GPG	General Purpose Gold Plated	1 A @ 125 VAC, 0.5 A Ind. 28 VDC	*	*

## MODEL DECODIFICATION





**WAAREE Instruments Ltd.,**  
 36, Damji Shamji Industrial Complex,  
 Off Mahakali Caves Road,  
 Andheri (East) Mumbai - 400 093. Tel. 022 - 56963030 / 2687 4778  
 Fax : 022 2687 3613. [www.waaree.com](http://www.waaree.com)  
 Email : [waaree@waaree.com](mailto:waaree@waaree.com) / [pwaaree@vsnl.net](mailto:pwaaree@vsnl.net)