



**W-Series** 

VACUUM

**BETA** products are manufactured in The Netherlands

### **Enclosures:**

Cast Aluminum: Oven baked powder coating hammertone grey

# Also available in SS 316

Wheaterproof IP 66 -EN 60529

(Nema 4X)

Repeatablity: typical 0.2% of Full Scale

Standard unit: Barg

Optional: PSI / Kg / Pa

Standard process connetion: 1/4" NPT F or BSP F

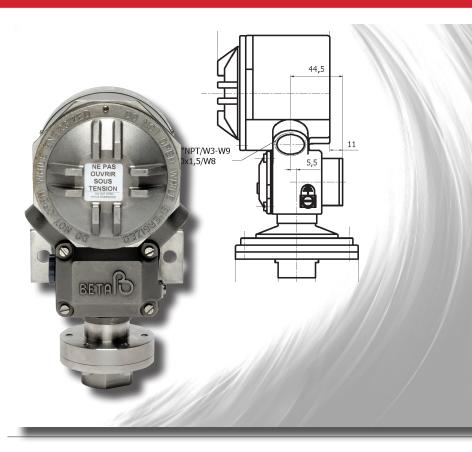
Standard Diaghragm/O-ring: Buna N / Buna N

For wetted parts: more possibilities available, see full catalogue

# BETA SWITCHES ARE, BUILD TO LAST!

# Do you want to know more:

Please contact your local dealer and ask for the General Bulletin. Or contact us directly!



# Ranges for Vacuum swiches

RANGE	ADJUSTABLE RANGE 1) (INCR. VAC. TO PRESS.)		MAX. DEADBAND (VAC. / PRESS.)		MAX. VACUUM		MAX. OVERRANGE PRESSURE		PROOF PRESSURE	
CODE		Bar / mBar	mB	ar	Bar /	mBar	В	ar	Bi	ar
V 301 L <sup>2</sup> )	-10 to -3	mBar	1	mBar	-500	mBar	+10	Bar	+15	Bar
V 304 L	-60/0/+150	mBar	4/4/6.5	mBar	-500	mBar	+30	Bar	+35	Bar
V 404 M	-400/0/+400	mBar	16/16/25	mBar			+125	Bar	+140	Bar
V 406 M	-980/0/+1000	mBar	30/30/40	mBar	-1	Bar	+125	Ddi	+140	Dai
V 506 H	-1/0/+6	Bar	80/80/25	mBar			+200	Bar	+600	Bar

<sup>1</sup>) For setpoint around zero bar gauge, consult factory.

<sup>2</sup>) Only available with L1 -microswitch element. K1 possible consult factory).



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More Short Form Data Sheets on Vacuum, Differential and Temperature Switches are available.





# Making the modelcode: Follow steps 1 to 5

**W-Series** 

# Selection of enclosure type.

Conduit	Material	Enclosure code
3/4" NPT F	Aluminium	W3
M20x1.5	SS 316	W8
3/4" NPT F	SS 316	W9

Selection of range code, see front page

# Selection of process connection.

Size	Material	Code		
1/4"NPT F	Aluminium *	A1N		
1/2"NPT F	Aluminium *	A2N		
1/4"NPT F	SS316	S1N		
1/2"NPT F	SS316	S2N		
1/2"NPT M SS316 <b>S7N</b>				
Process conn. size max. 1/2" Piston & Spring (both wetted) standard in SS 316.				

Above standard process connections are also available in:"BSP" For example: 1/2" BSP F (3316) = S2B

Process connections are also available in other materials like, Monel, PVC, Hastolley, Titanium etc.

# Selection of wetted parts

Diaphragm	O-ring	Code
Buna N	Buna N	B1
Viton	Viton	V2
SS316	Buna N	<b>S1</b>
SS316	Viton	<b>S</b> 2
SS316	Neoprene	\$3
SS316	EPDM	<b>S</b> 6
Tantalum	Buna N	T1

WETTED PARTS ARE NOT GUARANTEED, against corrosion or permeation since processes vary from plant to plant and concentration of harmful fluids, gasses or solids vary from time to time in a given process. Empirical experience by users should be the final guide and alternate materiale based on this are generally available.

materials based on this are generally available. The diaphragm / O-Ring combinations are for process temperatures of -5°C to +90°C, unless otherwise indicated. For process temperatures beyond these limits please contact your BETA Switch Representative

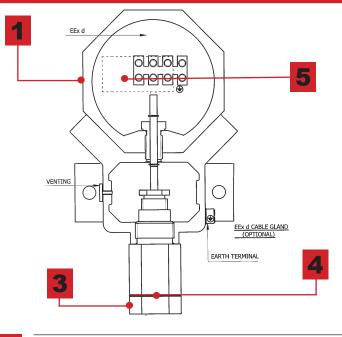
### Accessoires:

2" Pipe mount bracket set available.

Contents: 1 2 x Bracket + 2 2 x bolts M8 x 100 mm + nut

Disclaimer :

This pipe mount bracket is solely intended for use in combination with BETA Pressure & Temperature Switches. Foundation vibrations, as well as process vibrations, can disturb the proper functioning of the mounted nstrument, the use of this bracket does not prevent or diminishes such occurrence.



# Selection of microswitches

Rat	ing	Use:	Switch <sup>1)</sup> Code:	
VAC.	<b>VDC.</b> 3)	036.		
480/ 15A	28/ 0.5A	Standard	<b>K1</b> 2)	
480/ 10A	28/ 0.5A	Standaard for L-serie	L1 <sup>2)</sup>	
480/ 15A	125/ 0.5A	Normal DC-service	U1 <sup>1) 2)</sup>	
125/ 1A	28/ 0.5A	For use in H <sub>2</sub> S environment	G1 **	
250/ 0.1A	30/ 0.1A	and/or ³) for (EEx)i applications.	<b>Y1</b> 1)	
250/ 0.1A	30/ 0.1A		<b>O1</b> 1)	
250/ 2A	30/ 2A	Environmental proof(IP 67)	<b>N1</b> 1)	

1) For D.P.D.T action, second code figure schould be specifeid as "2" For example: Y1 = S.P.D.T./ Y2 = D.P.D.T

- 2) VDE certified acc. to DIN EN 61 058-1:1992+A1:1993.
- 3) Indicated ratings are for resistive DC load only.
- \*\* DC Rating not U.L. listed, although experience and third party testing confirm the D.C Voltage ratings. Consult your local BETA switch Representative.

# **Selection of options**

Description	Option code
Cable gland	С
Stainless steel tag key ringed to enclosure (Tag has 2 lines - 16 charaters per line)	S
Epoxy coating of switch. (External) Only in combination SS 316 process connection	Y

Doc. no.: SP 412/13/07/5K-(FC)