

W-Series

Vacuum

BETA products are manufactured in The Netherlands

Enclosures:

Cast Aluminum:

Oven baked powder coating
hammertone grey

**Also available in
SS 316**

Explosion-Proof IP 66 -
EN IEC 60079 - Eex-d IICT6
(Nema 4X)

Repeatability:
typical 0.2% of Full Scale

Range & Scale
Standard unit: **Barg**
Optional: PSI / Kg / Pa

Standard process conetion:
1/4" NPT (F) or BSP (F)

Standard Diaphragm/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!



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Ranges for Vacuum switches.

RANGE CODE:	ADJUSTABLE RANGE ²⁾ (Incr. VAC. to Press.)		MAX. DEADBAND (VAC. / PRESS.)		MAX. VACUUM		MAX. OVERRANGE PRESSURE		PROOF PRESSURE	
	mBar/ Bar		mBar		mBar / Bar		Bar		Bar	
V 301 L ¹⁾	-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	-1	Bar	+125	Bar	+140	Bar
V 406 M	-980/0/+1000	mBar	30/30/40	mBar			+200	Bar	+600	Bar
V 506 H	-1/0/+6	Bar	80/80/25	mBar						

1) Only available with L1 -microswitch element. K1 possible consult factory).

2) For setpoint around zero bar gauge, consult factory.

SP 412.25.02

Disclaimer:

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Making the modelcode: Follow steps 1 to 5

1 Selection of enclosure type.

Conduit:	Material:	Code:
3/4" NPT (F)	Aluminium	W3
M20 x 1.5	SS 316	W8
3/4" NPT (F)	SS 316	W9

2 Selection of range code, see front page.

3 Selection of process connection.

Size:	Material:	Code:
1/4" NPT F	SS 316	S1N
1/2" NPT F	SS 316	S2N
1/2" NPT M	SS 316	S7N

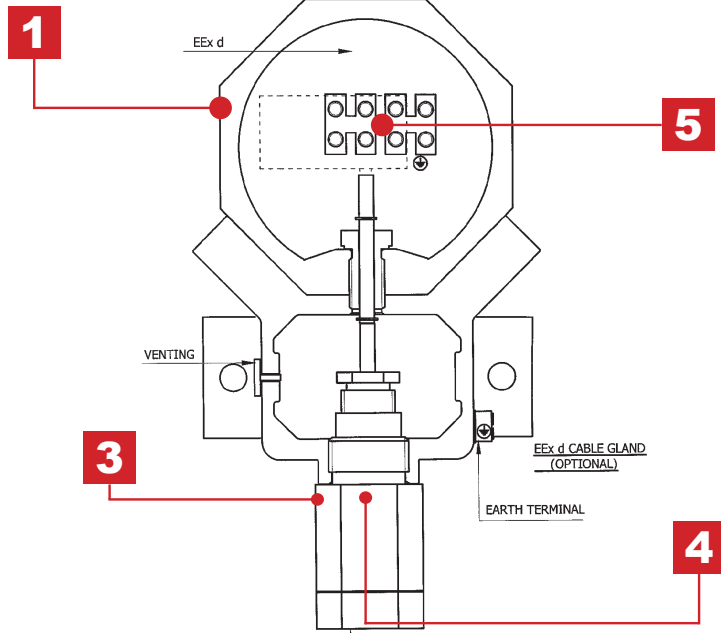
Process conn. size max. 1/2"
Piston & Spring (both wetted) standard in SS 316.

Above standard process connections are also available in: "BSP"
For example: 1/2" BSP F (SS 316) = **S2B**

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

4 Selection of wetted parts.

Diaphragm:	O-ring:	Code:
Buna N	Buna N	B1
Viton	Viton	V2
SS 316	Buna N	S1
SS 316	Viton	S2
SS 316	Neoprene	S3
SS 316	EPDM	S6
Tantalum	Buna-N	T1



5 Selection of microswitches.

Rating		Use	Code
VAC.	VDC. ³⁾		
480/ 15A	28/ 0.5A	Standard	K1 ²⁾
480/ 10A	28/ 0.5A	Standaard for L-serie	L1 ²⁾
480/ 15A	125/ 0.5A	Normal DC-service	U1
125/ 1A	28/ 0.5A	For use in H ₂ S environment and/or for Ex d / Ex tb applications. ³⁾	G1 ^{**}
250/ 0.1A	30/ 0.1A		Y1
250/ 0.1A	30/ 0.1A	Environmental proof (IP 67)	O1
250/ 2A	30/ 2A		N1

- 1) For D.P.D.T action, second code figure should be specified as "2"
For example: K1 = S.P.D.T./ K2 = 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.

6 Selection of options.

Description:	Code:
Cable gland	C
For Ex i applications	I
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

Accessoires:

2" Pipe mount bracket set available.
Contents :
2 x bolts M6 x 100 mm + washer & nut
Size +/- 1,5 mm / Material SS 304

**** 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 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.