

VERTICAL ASSEMBLY MODELS

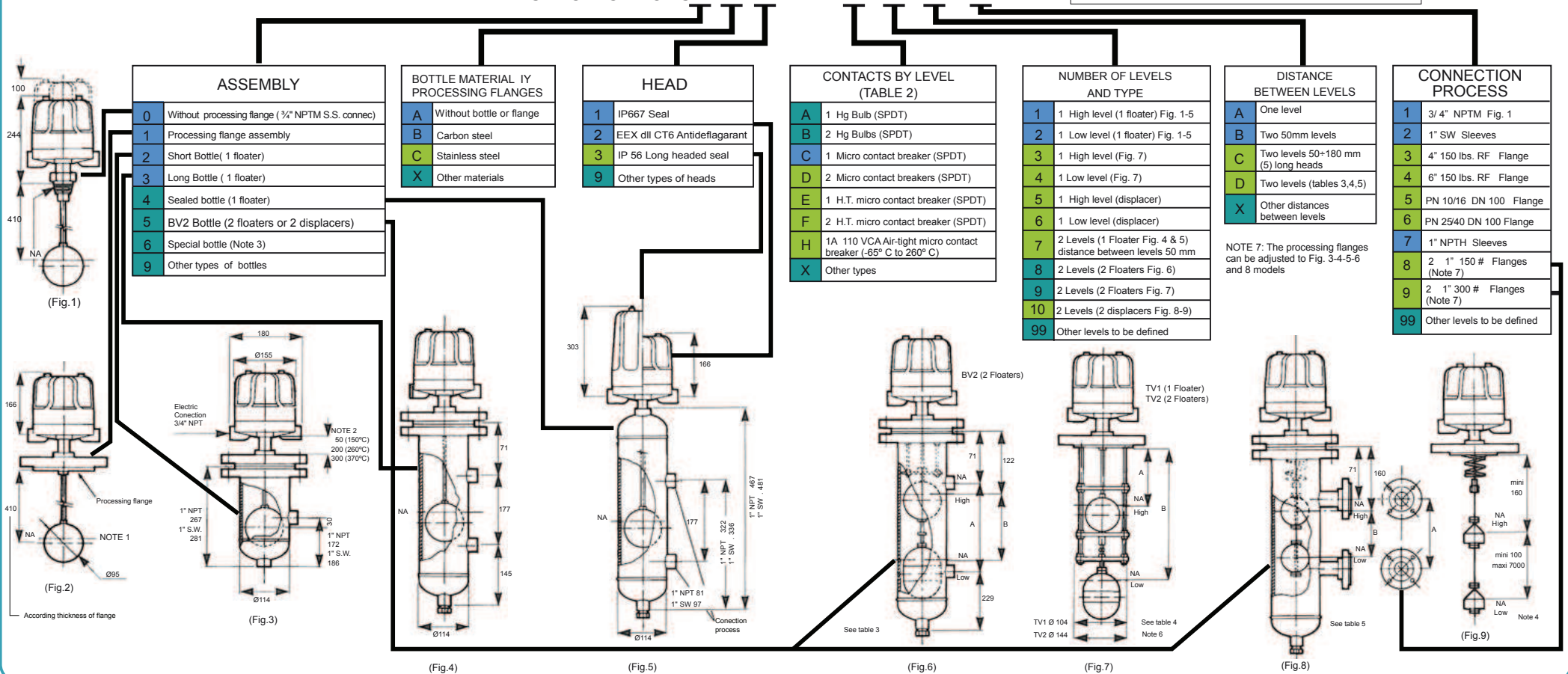
Thanks to its wide range of options, Nivotrol vertical assembly level switches cover a wide range of applications in all types of industries. Because of their rugged construction, they are especially helpful in all types of applications where the liquid level does not allow the use of a horizontal assembly device, as in the case of high level differentials, various levels alarms etc.

The following tables are useful in determining the device which best fits your needs. If your application conditions do not appear in these tables, let us know specifying the conditions of your service: pressure, temperature, density, viscosity, type of liquid, and a brief description of your system. Our technical staff can always find a solution to meet your specific needs.

- STANDARD OPERATION
- STANDARD OPTION
- SPECIAL OPERATION

TYPE N2 SPECIFICATIONS

SAMPLE DEFINITION: N2 2 B 2 D 1 A 7



CONTACTS BY LEVEL (TABLE 2)

A	1 Hg Bulb (SPDT)
B	2 Hg Bulbs (SPDT)
C	1 Micro contact breaker (SPDT)
D	2 Micro contact breakers (SPDT)
E	1 H.T. micro contact breaker (SPDT)
F	2 H.T. micro contact breaker (SPDT)
H	1A 110 VCA Air-tight micro contact breaker (-65° C to 260° C)
X	Other types

NUMBER OF LEVELS AND TYPE

1	1 High level (1 floater) Fig. 1-5
2	1 Low level (1 floater) Fig. 1-5
3	1 High level (Fig. 7)
4	1 Low level (Fig. 7)
5	1 High level (displacer)
6	1 Low level (displacer)
7	2 Levels (1 Floater Fig. 4 & 5) distance between levels 50 mm
8	2 Levels (2 Floaters Fig. 6)
9	2 Levels (2 Floaters Fig. 7)
10	2 Levels (2 displacers Fig. 8-9)
99	Other levels to be defined

DISTANCE BETWEEN LEVELS

A	One level
B	Two 50mm levels
C	Two levels 50x180 mm (5) long heads
D	Two levels (tables 3,4,5)
X	Other distances between levels

CONNECTION PROCESS

1	3/4" NPTM Fig. 1
2	1" SW Sleeves
3	4" 150 lbs. RF Flange
4	6" 150 lbs. RF Flange
5	PN 10/16 DN 100 Flange
6	PN 25/40 DN 100 Flange
7	1" NPTH Sleeves
8	2 1" 150 # Flanges (Note 7)
9	2 1" 300 # Flanges (Note 7)
99	Other levels to be defined

NOTE 7: The processing flanges can be adjusted to Fig. 3-4-5-6 and 8 models

STANDARD SPECIFICATIONS

Process Conditions	Figure								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
D = Kg/dm ³	≥0,8	≥0,8	≥0,8	≥0,8	≥0,8	≥0,7	≥0,7	≥0,5	≥0,5
p = bar	≤25	≤25	≤40	≤40	≤40	≤15	≤15	≤25	≤25
Temperature °C	Extension: 50 mm 0°C to 150°C		Extension: 200 mm 151°C to 260°C		Extension: 300 mm 261°C to 370°C				

NOTE 1 Floating Assembly in austenitic stainless steel
 NOTE 2 Longitude depending on temperature
 NOTE 3 For pressure exceeding 40 Bars
 NOTE 4 Porcelain displacers are not suitable for steam systems, in this case they are replaced by ballast stainless steel displacers
 NOTE 5 Alarm level: High/ very high Low/ very low - High / Low

Table 2: Amps power

	ELECTRIC CONTACTS			
	VCA		VCC	
	250	125	48	24
A - B	2	4	2	4
C - D	10	10	0,4	1,5
E - F	5	5	1	5

Contact A-B : Max. Temp. 150°C
 Contact C-D : Max. Temp. 260°C
 Contact E-F : Max. Temp. 370°C

Table 3

A mm	B mm
200	146
300	246
400	346
500	446
600	546
700	646

Table 4

	TV2		TV1
	A mm	B mm	B mm
Max.	2830	3000	2500
Min.	100	350	500

Note 6: TV2 Flange (fig. 7) can be 6" 150 lbs. or PN 25/40 DN 150

Table 5

A mm	B mm
200	100
300	200
400	300
500	400
600	500
700	600