

# SIMPLE EFFECT – PNEUMATIC VALVES BALL WAFER BODY – FULL BORE

VS1010SE/E

02 | 2010

## TWO VAY – ON-OFF AND MODULATING

**TYPE VS1010 SE (nc-na)**

Carbon Steel

**TIPO VS1011 SE (nc-na)**

Stainless Steel AISI 316

**Simple effect – air opens (Normally closed)****Simple effect – air closes (Normally open)**

### DESCRIPTION

The VS1010 SE – VS1011 SE valves are with wafer body. The AISI 316 ball guarantees a perfect tightness in class VI°. Compact construction assembled with a pneumatic piston actuator simple effect with rotation 90 ° normally closed or normally open without air.

The pneumatic actuator is powered by the following signals:

4 ... 10 bar for ON – OFF valves.

3-15 psi with pneumatic pilot positioner on modulating valves

4-20 mA with electropneumatic pilot positioner on modulating valves

**NOMINAL DIAMETERS :** from DN 15 to DN 150**BODY CONNECTIONS :** Flanged PN16 wafer**LIMIT WORKING CONDITION :**

- Max inlet pressure and temperature : 16 bar 165 °C

**BODY MATERIALS :**

- **Carbon Steel A105 PN 16**  
Internal parts Stainless Steel AISI 316
- **Acciaio inox AISI 316 PN 16**  
Internal parts Stainless Steel AISI 316

**BODY TYPE :** full bore**PLUG :** Ball**STEM PACKING :**

- PTFE ≤ 165 °C

### PNEUMATIC ACTUATOR CHARACTERISTICS:

- Actuator : simple effect piston  
rotation 90 °  
ISO 5211 – DIN 3337  
NAMUR VDI / VDE 3845
- Input signal : from 4 to 10 bar  
depending on model
- Max air applicable : 10 bar
- Ambient temperature : -20 ... +70 °C
- Actuator box : Alluminium ASTM B210
- Right and left piston : die casting alluminium UNI  
5076
- Yoke : galvanized carbon steel
- Pneumatic connections : ISO 7 Rp – ¼"

### ON REQUEST :

- Pneumatic Pilot Positioner 3-15 psi ... 3-9 psi ... 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA ...12-20 mA
- Proximity limit switches
- Feedback signal on positioner 4-20 mA
- Rotary switches with position monitoring by "Dome"
- Solenoid valve
- Air filter regulator

# CONFLOW s.p.a.

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WITH QUALITY MANAGEMENT  
SYSTEM CERTIFIED BY DNV  
=ISO 9001: 2000=

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Fax 039/654.018  
e-mail : sales@conflow.it  
www.conflow.it

# Maximum permissible pressure drops in Kg/cm<sup>2</sup> – signals in bar

	DN												
	15	20	25	32	40	50	65	80		100	125		150
<b>Δp kg/cm<sup>2</sup></b>	13	13	13	13	13	13	13	10	13	13	10	13	13
<b>Air bar</b>	4/5/6	4/5/6	4/5/6	4/5/6	4/5/6	4/5/6	6/10	6/10	5/10	5/10	5/10		5/10
<b>Piston</b>	UT 15 S3	UT 17 S4	UT 20 S3	UT 20 S4	UT 25 S4	UT 35 S3	UT 35 S5	UT 35 S5		UT 40 S4	UT 50 S4	UT 50 S4	UT 50 S5

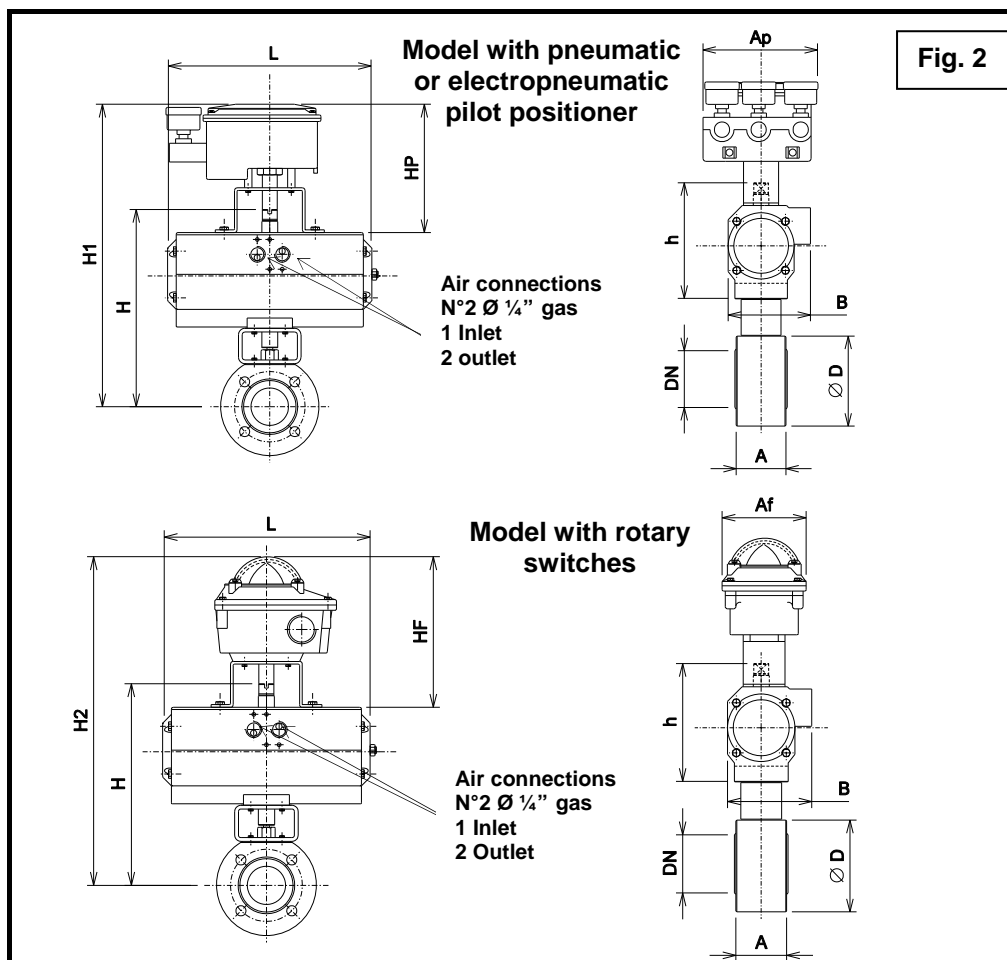
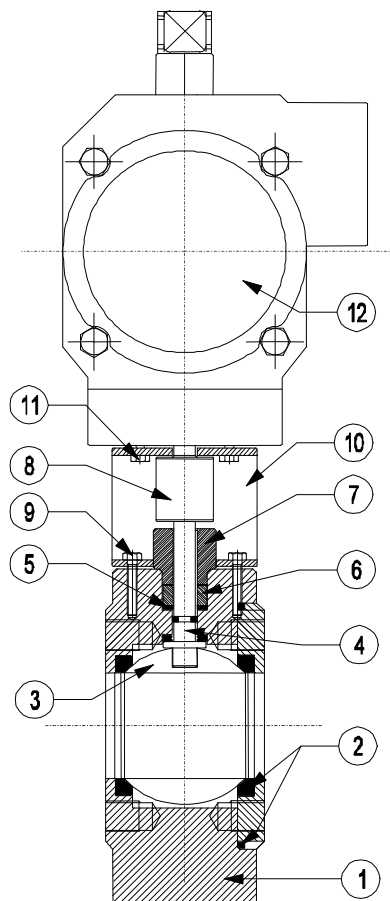
**Fig. 1**

**COMPONENTS LIST (fig. 1)**

1. Body (1)
2. Ball gaskets
3. Ball
4. Stem
5. Stem gasket
6. Packing
7. Packing adjusting nut
8. Joint
9. Locking body screws
10. Yoke
11. Yoke body screws
12. Piston

**MATERIALS (fig. 1)**

1. A105 (VS1010) / AISI 316 (VS1011)
2. PTFE
3. F304 (VS1010) / AISI 316 (VS1011)
4. AISI 316
5. PTFE
6. Carbon Steel
7. A105 (VS1010) / AISI 316 (VS1011)
8. A105 (VS1010) / AISI 316 (VS1011)
9. Galvanized Steel DIN 933
10. Painted Carbon steel
11. Galvanized Steel DIN 933
12. Alluminium



**Fig. 2**

**Dimensions in mm (fig. 2)**

DN	15	20	25	32	40	50	65	80		100	125	150
<b>Piston</b>	UT 15 S3	UT 17 S4	UT 20 S3	UT 20 S4	UT 25 S4	UT 35 S5	UT 35 S5	UT 35 S5	UT 40 S4	UT 50 S4	UT 50 S4 / S5	UT 60 S5
<b>H – Std Version</b>	225	230	257	267	272	296	343	350	350	398	453	468
<b>H1 – Versione with positioners</b>	360	365	392	402	407	431	478	485	485	533	588	603
<b>H2 – Versione with rotary switches</b>	330	335	362	372	377	414	448	455	455	503	558	573
<b>HP</b>	165	165	165	165	165	165	165	165	165	165	165	165
<b>HF</b>	135	135	135	135	135	135	135	135	135	135	135	135
<b>h</b>	121	121	143	143	143	162	196	196	196	208	248	248
<b>L</b>	165	197	177	177	239	246	246	246	290	361	361	444
<b>A</b>	36	39	43	51	63	70	83	107	120	140	180	243
<b>B</b>	70	70	86	86	86	131	131	131	131	182	182	232
<b>Ø D</b>	88	98	108	128	138	148	175	188	188	220	250	280
<b>Ap</b>	168	168	168	168	168	168	168	168	168	168	168	168
<b>Af</b>	86	86	86	86	86	86	86	86	86	86	86	86

Specifications given are only indicative and not binding for the manufacturer who reserve the right to carry-out any modification deemed necessary without prior notice.

# DOUBLE EFFECT PNEUMATIC VALVES BALL WAFER BODY – FULL BORE

VS1010DE/E

02

2010

**TWO WAY ON-OFF AND MODULATING** **TYPE VS1010 DE**

Carbon Steel

**TYPE VS1011 DE**

Stainless Steel AISI 316

**Double Effect – Air opens e closes****DESCRIPTION**

The VS1010 DE – VS1011 DE valves are with ball wafer body. The AISI 316 ball guarantees a perfect packing in VI° on the packing ring.

Compact construction assembled with a pneumatic piston actuator double effect with 90° rotation.

The pneumatic actuator is powered by the following signals:

4 ... 10 bar for ON – OFF valves.

3-15 psi with pneumatic pilot positioner on modulating valves

4-20 mA with electropneumatic pilot positioner on modulating valves

**NOMINAL DIAMETERS** : from DN 15 to DN 150**BODY CONNECTIONS** : Flanged PN16 wafer**LIMIT WORKING CONDITION :**

- Max inlet pressure and temperature : 16 bar 165 °C

**BODY MATERIALS (1) :**

- **Carbon Steel A105 PN 16**  
Internal parts stainless steel AISI 316
- **Stainless Steel AISI 316 PN 16**  
Internal parts stainless steel AISI 316

**BODY TYPE** : Full bore**PLUG** : Ball**STEM PACKING :**

- PTFE ≤ 165 °C

**PNEUMATIC ACTUATOR CHARACTERISTICS:**

- Actuator : double effect piston  
rotation 90 °  
ISO 5211 – DIN 3337  
NAMUR VDI / VDE 3845
- Input signal : from 4 to 10 bar  
depending on model
- Max air applicable : 10 bar
- Ambient temperature : -20 ... +70 °C
- Actuator box : Alluminium ASTM B210
- Right and left piston : die casting alluminium UNI 5076
- Yoke : galvanized carbon steel
- Pneumatic connections : ISO 7 Rp – ¼"

**ON REQUEST :**

- Pneumatic Pilot Positioner 3-15 psi ... 3-9 psi ... 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA ... 12-20 mA
- Proximity limit switches
- Re-transmission signal on positioners
- Rotary switches with position monitoring by "Dome"
- Solenoid valves
- Air filter regulator

**CONFLOW** s.p.a.

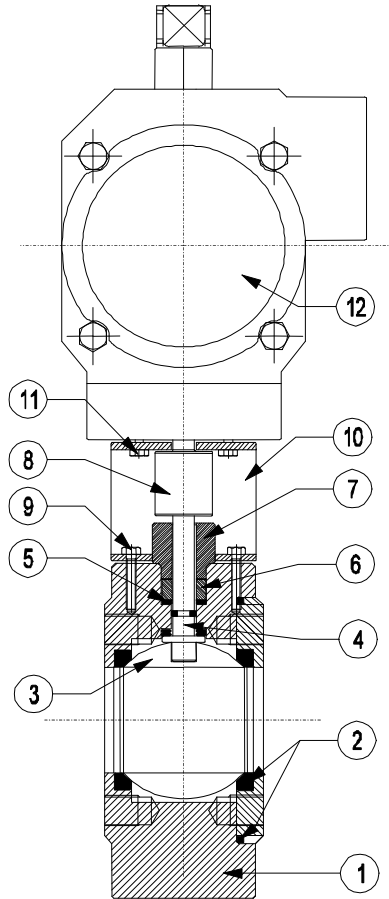
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e-mail : vendite@conflow.it  
www.conflow.it

# Maximum permissible pressure drops in Kg/cm<sup>2</sup> – signals in bar

	DN										
	15	20	25	32	40	50	65	80	100	125	150
$\Delta p$ kg/cm <sup>2</sup>	13	13	13	13	13	13	13	13	13	13	13
Air bar	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10
Piston	UT15	UT20	UT20	UT20	UT20	UT35	UT35	UT35	UT50	UT50	UT60

**Fig. 1**



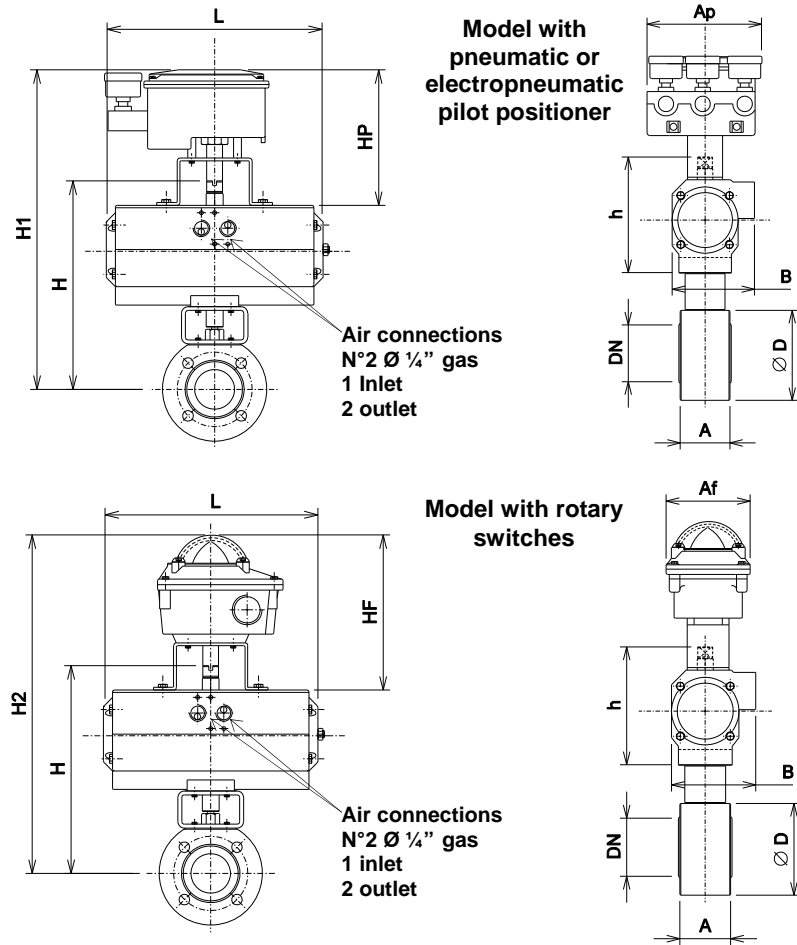
**COMPONENTS LIST (fig. 1)**

1. Body (1)
2. Ball gaskets
3. Ball
4. Stem
5. Stem gasket
6. Packing
7. Packing adjusting nut
8. Joint
9. Locking body screws
10. Yoke
11. Yoke body screws
12. Piston

**MATERIALS (fig. 1)**

1. A105 (VS1010) / AISI 316 (VS1011)
2. PTFE
3. F304 (VS1010) / AISI 316 (VS1011)
4. AISI 316
5. PTFE
6. Carbon steel
7. A105 (VS1010) / AISI 316 (VS1011)
8. A105 (VS1010) / AISI 316 (VS1011)
9. Galvanized steel DIN 933
10. Painted carbon steel
11. Galvanized steel DIN 933
12. Alluminium

**Fig. 2**



**Dimensions in mm (fig. 2)**

DN	15	20	25	32	40	50	65	80	100	125	150
<b>Piston</b>	UT15	UT15	UT20	UT20	UT20	UT35	UT35	UT35	UT50	UT50	UT60
<b>H – std version</b>	205	210	215	245	250	255	290	297	386	401	416
<b>H1 – version with positioners</b>	340	345	350	380	385	390	425	432	521	536	551
<b>H2 – version with rotary switches</b>	310	315	320	350	355	360	395	402	491	506	521
<b>HP</b>	165	165	165	165	165	165	165	165	165	165	165
<b>HF</b>	135	135	135	135	135	135	135	135	135	135	135
<b>h</b>	101	101	101	121	121	121	143	143	196	196	196
<b>L</b>	165	165	177	177	177	246	246	246	361	361	444
<b>A</b>	36	39	43	51	63	70	83	107	140	180	243
<b>B</b>	70	70	86	86	86	131	131	131	182	182	232
<b>Ø D</b>	88	98	108	128	138	148	175	188	220	250	280
<b>Ap</b>	168	168	168	168	168	168	168	168	168	168	168
<b>Af</b>	86	86	86	86	86	86	86	86	86	86	86

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