



VAC-312, VEC-313 combination air valves - ordering guide

1. Types of Air Valves:

- VAC-312-SP - Clean water applications, body construction in super duplex (**VAC-312-SP-D**)
- VEC-313-SP - Sewage & Wastewater applications, body in ductile iron (**VEC-313-SP-C**) or stainless steel (**VEC-313-SP-N**)

2. Available models by Inlet connection's standard and maximum operating pressure

VAC-312-D	Inlet connection standard	Max Operating Pressure	VEC-313-SP-C VEC-313-SP-N	Inlet connection standard	Maximum operating pressure
2"	PN10/16/25/ ANSI#150-300	25 bar	2"	PN10/16/25/ ANSI#150-300	25 bar
3"	PN10/16/25/ ANSI#150-300	25 bar	3"	PN10/16/25/ ANSI#150-300	25 bar
4"	PN10/16/25/ ANSI#150-300	25 bar	4"	PN10/16/25/ ANSI#150-300	25 bar
6"	PN10/16/25/ ANSI#150-300	25 bar	6"	PN10/16/ ANSI#150	16 bar
8"	PN10/16/25/ ANSI#150-300	25 bar	8"	PN10/16 ANSI#150	16 bar
---	---	---	10" (Reduced)	PN10/16 ANSI#150	16 bar



3. Structure of items code on Oracle

Model	Inlet Connection Diameter (inch)	Materials / configuration	End connection standard / pressure rating	Kinetic orifice (for reduced bore)
313	0600	447	12	0400

4. Inlet connection diameter (inch)

VAC-312-SP-D	Inlet connection diameter	Kinetic orifice (for reduced bore)	VEC-313-SP-C VEC-313-SP-N	Inlet connection diameter	Kinetic orifice (for reduced bore)
2"	0200	----	2"	0200	----
3"	0300	-0200	3" (*)	0300	-0200
4"	0400	-0300	4" (*)	0400	-0300
6"	0600	-0400	6" (*)	0600	-0400
8"	0800	-0600	8" (*)	0800	-0600
----	----	----	10" (Reduced)	1000	-0800

(*) VEC-313-SP inlets sizes 3" - 8"; DN80-200 can also be reduced



5. End Connection standard / pressure rating

code	Standard
11	ISO 2531 PN 10
12	ISO 2531 PN 16
13	ISO 2531 PN 25
61	ANSI #150
62	ANSI #300
98	Threaded BSP
99	Threaded NPT
912	AS 4087 PN16 (AS16)

6. Material specification - VAC-312-SP-D in super duplex (Grade 5)

Item	VAC-312-SP-D code 505 2" - 8"; DN50 - DN200	VAC-312-SP-D code 401 2" - 8"; DN50 - DN200	VAC-312-SP-D Code 501 2" - 4"; DN50 - DN100	VAC-312-SP-D Code 400 2" - 4"; DN50 - DN100
Inlet connection	 Flanged	 Flanged	 Stud bolts	 Stud bolts
Lower flange	Super Duplex Grade 5 A995 (cast)	Super Duplex Grade 5 A995 (cast)	Super Duplex UNS S32750-F53 (machined)	Super Duplex UNS S32750-F53 (machined)
Barrel (body)	Super Duplex ASTM A 790 UNS S32750-F53	Super Duplex ASTM A 790 UNS S32750-F53	Super Duplex ASTM A 790 UNS S32750-F53	Super Duplex ASTM A 790 UNS S32750-F53
Floats	PP	PP	PP	PP
O-rings	Viton	Viton	Viton	Viton
Top flange	Super Duplex Grade 5 A995 (cast)	Super Duplex Grade 5 A995 (cast)	Super Duplex UNS S32750-F53 (machined)	Super Duplex UNS S32750-F53 (machined)
Insect screen	PP	PP	PP	PP



Item	VAC-312-SP-D code 505 2" - 8"; DN50 - DN200	VAC-312-SP-D code 401 2" - 8"; DN50 - DN200	VAC-312-SP-D Code 501 2" - 4"; DN50 - DN100	VAC-312-SP-D Code 400 2" - 4"; DN50 - DN100
Top cover	PP	PP	PP	PP
Nozzle (automatic orifice)	Super Duplex UNS S32750-F53 (machined)			
Nozzle seat	Viton	Viton	Viton	Viton
Tie Rods, Screw, nut,	Super Duplex UNS S32750-F53 (machined)	316 bolt & nuts	Super Duplex UNS S32750-F53 (machined)	316316 bolt & nuts



7. Material specification VAC-312 – alternative in duplex (Grade 4)

Item	Casting code - 521	Machined Code - 522
Lower flange	Duplex Grade 4 A995	Duplex: UNS S31803 F51
Barrel (body)	Duplex ASTM A 790 UNS S31803-F51	Duplex ASTM A 790 UNS S31803-F51
Floats	PP	PP
O-rings	Viton	Viton
Top flange	Duplex Grade 4 A995	Duplex: UNS S31803 F51
Insect screen	PP	PP
Top cover	PP	PP
Nozzle (automatic orifice)	Duplex: UNS S31803 F51	Duplex: UNS S31803 F51
Nozzle seat	Viton	Viton
Screw, nut	Duplex: UNS S31803 F51	Duplex: UNS S31803 F51
	316 bolt & nuts	316 bolt & nuts

8. Material specification VEC-313-C, VEC-313-N

Item	Model VEC-313-C Code 475	Model VEC-313-N Code 447
		
Lower flange	DUCTILE IRON ASTM A 536 Gr. 65-45-12	AISI 316
Barrel (body)	AISI 316	AISI 316
Floats	HDPE	HDPE
O-rings	NR	Viton
Top flange	DUCTILE IRON ASTM A 536 Gr. 65-45-12	AISI 316
Insect screen	AISI 304	AISI 316
Top cover	Carbon Steel	AISI 316
Nozzle (automatic orifice)	AISI 316	AISI 316
Nozzle seat	Polyurethane (PU)	Viton
Screw, nut	AISI 316	AISI 316
Drainage Ball valve 1"; DN25 BSP	AISI 316	AISI 316