



V SERIES

Check valves fabricated from
pressed stainless steel

Model
V Series

Material
Aisi 304 - 316

Seal
NBR, EPDM, FPM, PTFE, FEP

Pipe
1/2" – 4"

PN
16

Construction features

Manufacturing process: pressed stainless steel

Surface treatment degreasing, pickling and electropolishing

Seal ring
NBR, EPDM, FPM, PTFE or FEP

Threaded ends female according to
UNI ISO 228/1

TIG weldings without additional material

Opening pressure
Min. 0.36 – Max. 0.50 psi
Hydraulic test on the seal rings
2.9 psi

Nominal working pressure
232 psi

Working temperature
-13°F – +194°F NBR
-4°F – +230°F EPDM
-4°F – +302°F FPM
-4°F – +392°F PTFE o/or FEP

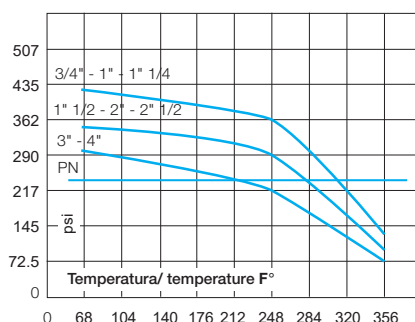
Approvals

WRAS

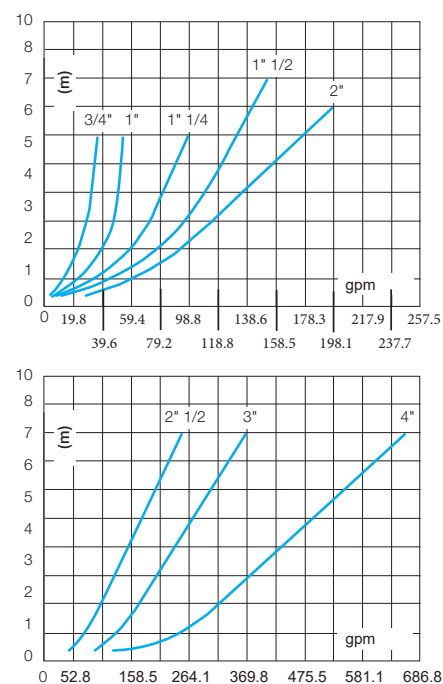


only Aisi 304 and 316 EPDM
types

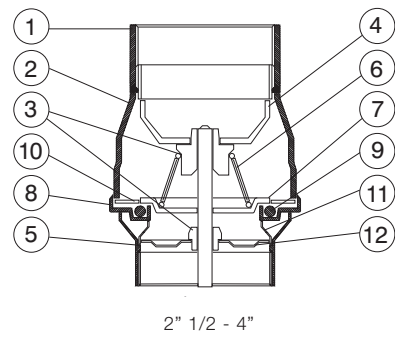
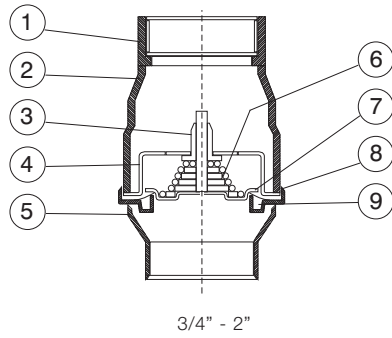
Pressure temperature diagram



Friction losses diagrams



Aisi 316 FPM and 304 EPDM
version has been certified by a third
party to be compliant with the "Safe
Drinking Water Act" requirements
for low lead in potable (human
consumption - drinking and cooking)
and non-potable water applications
(non-human consumption).



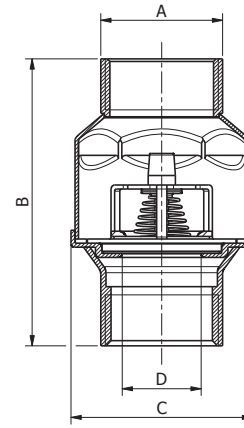
Check Valves



Components and materials

	Version Aisi 304	Version Aisi 316
1 Outlet end	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088
2 Valve	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088
3 Guide bush	PTFE	PTFE
4* Flow control disc guide	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088
5 Inlet end	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088
6* Spring	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088
7* Flow control disc	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088
8 Seal ring housing	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088
9* Seal ring	NBR, FPM, EPDM	EPDM, FPM, PTFE, FEP
10 Seal ring retainer	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088
11 Seal ring support	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088
12 Inlet side guide	1.4301 / 1.4304 EN 10088	1.4401 / 1.4404 EN 10088

* Spare parts only for versions: 2" 1/2 - 3" - 4"



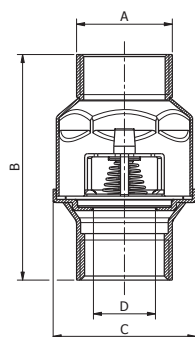
Check Valves

Dimensions and weights

Code	Size	Material	Seal	DN	PN	Weight in lb.	gpm	Dimensions			
								A	B	C	D
V034N4N	3/4"	Aisi 304	NBR	20	16	.28	47.5	1 3/16"	2 41/64"	1 47/64"	23/32"
V100N4N	1"			25	16	.42	82.3	1 13/32"	3 17/64"	2 3/32"	59/64"
V125N4N	1" 1/4			32	16	.61	138.6	1 49/64"	3 13/16"	2 19/32"	1 15/64"
V150N4N	1" 1/2			40	16	.85	178.3	2"	4 17/32"	3 5/64"	1 29/64"
V200N4N	2"			50	16	1.55	246.5	2 31/64"	4 3/4"	3 1/2"	1 11/16"
V250N4N	2" 1/2			65	16	3.14	303.7	3 5/32"	5 19/32"	4 29/64"	2 5/16"
V034F4N	3/4"	Aisi 304	FPM	20	16	.28	47.5	1 3/16"	2 41/64"	1 47/64"	23/32"
V100F4N	1"			25	16	.42	82.3	1 13/32"	3 17/64"	2 3/32"	59/64"
V125F4N	1" 1/4			32	16	.61	138.6	1 49/64"	3 13/16"	2 19/32"	1 15/64"
V150F4N	1" 1/2			40	16	.85	178.3	2"	4 17/32"	3 5/64"	1 29/64"
V200F4N	2"			50	16	1.55	246.5	2 31/64"	4 3/4"	3 1/2"	1 11/16"
V250F4N	2" 1/2			65	16	3.14	303.7	3 5/32"	5 19/32"	4 29/64"	2 5/16"
V034F6N	3/4"	Aisi 316	FPM	20	16	.28	47.5	1 3/16"	2 41/64"	1 47/64"	23/32"
V100F6N	1"			25	16	.42	82.3	1 13/32"	3 17/64"	2 3/32"	59/64"
V125F6N	1" 1/4			32	16	.61	138.6	1 49/64"	3 13/16"	2 19/32"	1 15/64"
V150F6N	1" 1/2			40	16	.85	178.3	2"	4 17/32"	3 5/64"	1 29/64"
V200F6N	2"			50	16	1.55	246.5	2 31/64"	4 3/4"	3 1/2"	1 11/16"
V250F6N	2" 1/2			65	16	3.14	303.7	3 5/32"	5 19/32"	4 29/64"	2 5/16"
V300F6N	3"	Aisi 316	PTFE	80	16	4.59	435.8	3 21/32"	6 19/64"	5 13/64"	2 49/64"
V400F6N	4"			100	16	7.52	796.9	4 23/32"	7 33/64"	6 37/64"	3 43/64"
V034T6N	3/4"			20	16	.28	47.5	1 3/16"	2 29/32"	1 47/64"	23/32"
V100T6N	1"			25	16	.42	82.3	1 13/32"	3 35/64"	2 3/32"	59/64"
V125T6N	1" 1/4			32	16	.61	138.6	1 49/64"	3 31/32"	2 19/32"	1 15/64"
V150T6N	1" 1/2			40	16	.85	178.3	2"	4 23/32"	3 5/64"	1 29/64"
V200P6N	2"	Aisi 316	FEP	50	16	1.55	246.5	2 31/64"	4 3/4"	3 1/2"	1 11/16"
V250P6N	2" 1/2			65	16	3.14	303.7	3 5/32"	5 19/32"	4 29/64"	2 5/16"
V300P6N	3"			80	16	4.59	435.8	3 21/32"	6 19/64"	5 13/64"	2 49/64"
V400P6N	4"			100	16	7.52	796.9	4 23/32"	7 33/64"	6 37/64"	3 43/64"

Check Valves

Model	Material	Seal	Pipe	PN
V / OR Series	Aisi 304 - 316	FPM	3/4" – 1 1/4"	16



Construction features

For use with compressed air or vacuum in low impact applications

Flow control disc: stainless steel Aisi 316 with reinforced welding between guiding pin and disc

Threaded ends female according to UNI ISO 228/1

Aisi 316 FPM version has been certified by a third party to be compliant with the "Safe Drinking Water Act" requirements for low lead in potable (human consumption - drinking and cooking) and non-potable water applications (non-human consumption).

Dimensions and weights

Code	Size	Material	DN	PN	Weight in lb.	gpm	Dimensions			
							A	B	C	D
V034F4N-OR	3/4"	Aisi 304	20	16	.28	47.5	1 3/16"	2 41/64"	1 47/64"	23/32"
V100F4N-OR	1"		25	16	.42	82.3	1 13/32"	3 17/64"	2 3/32"	59/64"
V125F4N-OR	1 1/4"		32	16	.61	138.6	1 49/64"	3 13/16"	2 19/32"	1 15/64"
V034F6N-OR	3/4"	Aisi 316	20	16	.28	47.5	1 3/16"	2 41/64"	1 47/64"	23/32"
V100F6N-OR	1"		25	16	.42	82.3	1 13/32"	3 17/64"	2 3/32"	59/64"
V125F6N-OR	1 1/4"		32	16	.61	138.6	1 49/64"	3 13/16"	2 19/32"	1 15/64"

Model	Material	Seal	Pipe	PN
V / EA Series	Aisi 304	FPM	3/4" – 2"	16



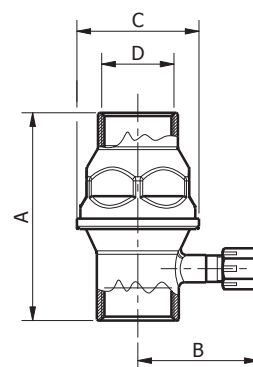
Construction features

Antipollution checkable version

In conformity with UNI EN 1717 type EA)

Inspection hole: threaded 1/8" male on suction side

Threaded ends female according to UNI ISO 228/1



Dimensions and weights

Code	Size	DN	PN	Weight in lb.	gpm	Dimensions			
						A	B	C	D
V034F4N-EA	3/4"	20	16	.37	47.5	3 1/32"	1 21/32"	1 47/64"	3/4" F
V100F4N-EA	1"	25	16	.43	82.3	3 45/64"	1 49/64"	2 3/32"	1" F
V125F4N-EA	1 1/4"	32	16	.66	138.6	4 7/32"	1 59/64"	2 19/32"	1 1/4" F
V150F4N-EA	1 1/2"	40	16	.97	178.3	4 59/64"	2 3/64"	3 5/64"	1 1/2" F
V200F4N-EA	2"	50	16	1.48	246.5	4 59/64"	2 9/32"	3 35/64"	2" F

Check Valves

Model V / DW Series	Material Aisi 304 - 316	Seal EPDM	Pipe 3/4" – 4"	PN 16
------------------------	----------------------------	--------------	-------------------	----------



Construction features

For drinkable water

In conformity with
UNI EN 1074-3

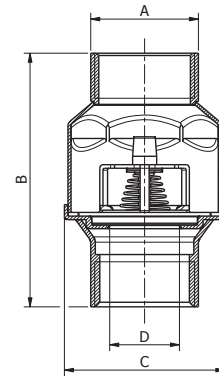
Working temperature
-4°F – +230°F

Threaded ends female according to
UNI ISO 228/1

Approvals



WRAS



Aisi 304 version has been certified by a third party to be compliant with the “Safe Drinking Water Act” requirements for low lead in potable (human consumption - drinking and cooking) and non-potable water applications (non-human consumption).

Dimensions and weights

Code	Size	Material	DN	PN	Weight in lb.	GPM	Dimensions			
							A	B	C	D
V034E4N-DW	3/4"	Aisi 304	20	16	.28	47.5	1 3/16"	2 41/64"	1 47/64"	23/32"
V100E4N-DW	1"		25	16	.42	82.3	1 13/32"	3 17/64"	2 3/32"	59/64"
V125E4N-DW	1" 1/4		32	16	.61	138.6	1 49/64"	3 13/16"	2 19/32"	1 15/64"
V150E4N-DW	1" 1/2		40	16	.85	178.3	2"	4 17/32"	3 5/64"	1 29/64"
V200E4N-DW	2"		50	16	1.55	246.5	2 31/64"	4 3/4"	3 1/2"	1 11/16"
V250E4N-DW	2" 1/2		65	16	3.14	303.7	3 5/32"	5 19/32"	4 29/64"	2 5/16"
V034E6N-DW	3/4"	Aisi 316	20	16	.28	47.5	1 3/16"	2 41/64"	1 47/64"	23/32"
V100E6N-DW	1"		25	16	.42	82.3	1 13/32"	3 17/64"	2 3/32"	59/64"
V125E6N-DW	1" 1/4		32	16	.61	138.6	1 49/64"	3 13/16"	2 19/32"	1 15/64"
V150E6N-DW	1" 1/2		40	16	.85	178.3	2"	4 17/32"	3 5/64"	1 29/64"
V200E6N-DW	2"		50	16	1.55	246.5	2 31/64"	4 3/4"	3 1/2"	1 11/16"
V250E6N-DW	2" 1/2		65	16	3.14	303.7	3 5/32"	5 19/32"	4 29/64"	2 5/16"
V300E6N-DW	3"		80	16	4.59	435.8	3 21/32"	6 19/64"	5 13/64"	2 49/64"
V400E6N-DW	4"		100	16	7.52	796.9	4 23/32"	7 33/64"	6 37/64"	3 43/64"

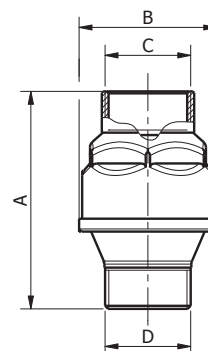
Check Valves

Model	Material	Seal	Pipe	PN
V / MF Series	Aisi 304	FPM	1" – 2"	16



Construction features

Male – female
Threaded ends
on suction side male according to
UNI ISO 228/1



Dimensions and weights

Code	Size	DN	PN	Weight in lb.	gpm	Dimensions			
						A	B	C	D
V100F4N-MF	1"	25	16	.36	4.94	2 ⁶³ / ₆₄ "	2 ³ / ₃₂ "	1" F	1" M
V125F4N-MF	1" 1/4	32	16	.57	8.32	3 ⁵⁷ / ₆₄ "	2 ¹⁹ / ₃₂ "	1"1/4 F	1"1/4 M
V150F4N-MF	1" 1/2	40	16	.84	10.7	4 ¹⁷ / ₃₂ "	3 ⁵ / ₆₄ "	1"1/2 F	1"1/2 M
V200F4N-MF	2"	50	16	1.31	14.79	4 ²⁷ / ₃₂ "	3 ³⁵ / ₆₄ "	2" F	2" M

Model	Material	Seal	Pipe	PN
V / MFA Series	Aisi 304	EPDM	1" – 2"	16

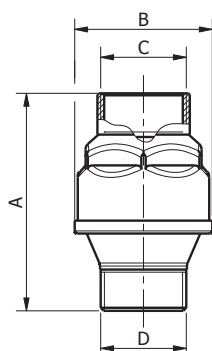


Construction features

Male - female
Threaded ends on suction side male
UNI ISO 228/1
Threaded ends on delivery
female
UNI ISO 228/1

Aisi 316 FPM type has been certified
by a third party to be compliant with
the "Safe Drinking Water Act"
requirements for low lead in potable
(human consumption - drinking and
cooking) and non-potable water
applications (non-human
consumption).

Dimensions and weights



Code	Size	DN	PN	Weight in lb.	gpm	Dimensions			
						A	B	C	D
V100E4N-MFA	1"	25	16	.36	4.94	2 ⁶³ / ₆₄ "	2 ³ / ₃₂ "	1" F	1" M
V125E4N-MFA	1" 1/4	32	16	.57	8.32	3 ⁵⁷ / ₆₄ "	2 ¹⁹ / ₃₂ "	1"1/4 F	1"1/4 M
V150E4N-MFA	1" 1/2	40	16	.84	10.7	4 ¹⁷ / ₃₂ "	3 ⁵ / ₆₄ "	1"1/2 F	1"1/2 M
V200E4N-MFA	2"	50	16	1.31	14.79	4 ²⁷ / ₃₂ "	3 ³⁵ / ₆₄ "	2" F	2" M

Check Valves

Model	Material	Seal	Pipe	PN
V / NPT Series	Aisi 304 - 316	FPM	3/4" – 2"	16

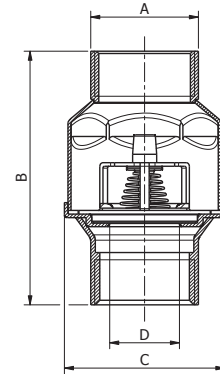


Construction features

Aisi 316 Version: flow control disc with reinforced welding between guiding pin and disc for use with compressed air in low impact applications

Female threaded ends NPT according to ANSI B 1.20.1

Approvals



Aisi 316 FPM type has been certified by a third party to be compliant with the "Safe Drinking Water Act" requirements for low lead in potable (human consumption - drinking and cooking) and non-potable water applications (non-human consumption).

Dimensions and weights

Code	Size	Material	DN	PN	Weight in lb.	gpm	Dimensions			
							A	B	C	D
V034F4N-N	3/4"	Aisi 304	20	16	.28	47.5	1 3/16"	2 41/64"	1 47/64"	23/32"
V100F4N-N	1"		25	16	.42	82.3	1 13/32"	3 17/64"	2 3/32"	59/64"
V125F4N-N	1" 1/4		32	16	.61	138.6	1 49/64"	3 13/16"	2 19/32"	1 15/64"
V150F4N-N	1" 1/2		40	16	.85	178.3	2"	4 17/32"	3 5/64"	1 29/64"
V200F4N-N	2"		50	16	1.55	246.5	2 31/64"	4 3/4"	3 1/2"	1 11/16"
V034F6N-N	3/4"	Aisi 316	20	16	.28	47.5	1 3/16"	2 41/64"	1 47/64"	23/32"
V100F6N-N	1"		25	16	.42	82.3	1 13/32"	3 17/64"	2 3/32"	59/64"
V125F6N-N	1" 1/4		32	16	.61	138.6	1 49/64"	3 13/16"	2 19/32"	1 15/64"
V150F6N-N	1" 1/2		40	16	.85	178.3	2"	4 17/32"	3 5/64"	1 29/64"
V200F6N-N	2"		50	16	1.55	246.5	2 31/64"	4 3/4"	3 1/2"	1 11/16"

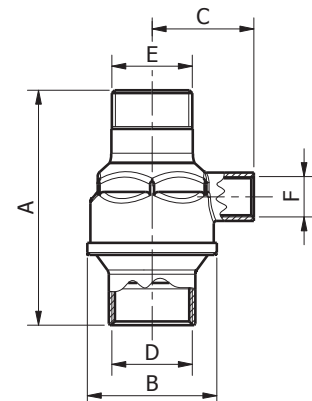
Check Valves

Model	Material	Seal	Pipe	PN
V / FM + Series	Aisi 304	NBR	1" – 2"	16



Construction Features

Female-male with connection on delivery side
Threaded ends according to
UNI ISO 228/1



Dimensions and weights

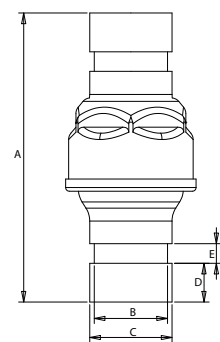
Code	Size	DN	PN	Weight in lb.	gpm	Dimensions					
						A	B	C	D	E	F
V100N4N-FM	1"	25	16	.44	82.3	3 13/16"	2 3/32"	1 21/32"	1" F	1" M	3/8" F
V100N4N-FM	1" 1/4	32	16	.67	138.6	4 29/64"	2 19/32"	1 57/64"	1"1/4 F	1"1/4 M	3/8" F
V100N4N-FM	1" 1/2	40	16	.94	178.3	5 1/8"	3 5/64"	2 1/8"	1"1/2 F	1"1/2 M	3/8" F
V100N4N-FM	2"	50	16	1.45	246.5	5 15/64"	3 35/64"	2 23/64"	2" F	2" M	3/8" F

Model	Material	Seal	Pipe	PN
V / VCT Series	Aisi 304	FPM	1" – 2"	16



Construction features

Ends type Victaulic®



Dimensions and weights

Code	Size	DN	PN	Weight in lb.	gpm	Dimensions				
						A	B	C	D	E
V100F4N-V	1"	25	25	.46	82.3	4 23/32"	1 3/16"	1 21/64"	5/8"	5/16"
V125F4N-V	1" 1/4	32	32	.68	138.6	4 61/64"	1 17/32"	1 43/64"	5/8"	5/16"
V150F4N-V	1" 1/2	40	40	.94	178.3	5 35/64"	1 49/64"	1 29/32"	5/8"	5/16"
V200F4N-V	2"	50	50	1.7	246.5	6 21/64"	2 1/4"	2 3/8"	5/8"	5/16"

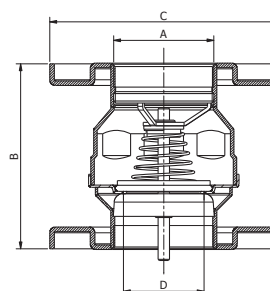
Check Valves

Model	Material	Seal	Pipe	PN
V / FLANGE Series	Aisi 304 - 316	FPM	2" – 4"	16



Construction features

Flanged ends: flanges fabricated from pressed stainless steel with holes according to UNI EN 1092-1 PN 16



Dimensions and weights

Code	Material	DN	PN	Weight in lb.	gpm	Dimensions				Flange	
						A	B	C	D	N. holes	Diam. holes
V200F4N-F	Aisi 304	50	16	4.29	246.5	2 33/64"	4 27/32"	6 1/2"	1 11/16"	5/32"	45/64"
V250F4N-F		65	16	7.15	303.7	3 5/32"	5 45/64"	7 9/32"	2 5/16"	5/32"	45/64"
V200F6N-F	Aisi 316	50	16	4.29	246.5	2 33/64"	4 27/32"	6 1/2"	1 11/16"	5/32"	45/64"
V250F6N-F		65	16	7.15	303.7	3 5/32"	5 45/64"	7 9/32"	2 5/16"	5/32"	45/64"
V300F6N-F		80	16	9.11	246.5	3 57/64"	6 29/64"	7 7/8"	2 49/64"	5/16"	45/64"
V400F6N-F		100	16	14.7	303.7	7 1/8"	7 23/32"	8 55/64"	3 43/64"	5/16"	45/64"

Model V / FL Series

Material
Aisi 304 - 316

Seal
FPM

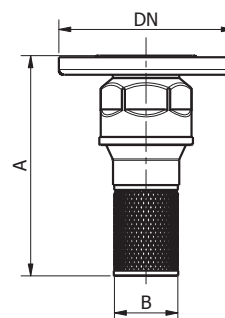
Pipe
2" – 4"

PN
16



Construction features

Flanged ends: flanges fabricated from pressed stainless steel with holes according to UNI EN 1092-1 PN 16



Dimensions and weights

Code	Size	Material	DN	PN	Weight in lb.	gpm	Dimensions		
							A	B	Ø net hole
V200F4N-FL	2"	Aisi 304	50	16	3.2	246.5	8 3/16"	2 23/64"	1
V250F4N-FL	2" 1/2		65	16	4.94	303.7	9 1/4"	3 7/64"	1.8
V200F6N-FL	2"	Aisi 316	50	16	3.2	246.5	8 3/16"	2 23/64"	1
V250F6N-FL	2" 1/2		65	16	4.94	303.7	9 1/4"	3 7/64"	1.8
V300F6N-FL	3"		80	16	6.5	435.8	10 15/32"	3 5/8"	1.8
V400F6N-FL	4"		100	16	11	796.9	12 41/64"	4 17/32"	1.8

*Flange dimensions: see above table