Oasis / MEMBER OF THE ELAFLEX GROUP

300 Series Heavy Duty Check Valves

Applications

Extreme or turbulent unidirectional flow applications such as Compressors, Trailers and high flow fill posts where flow should only be allowed to travel in one direction.

Suitable for CNG, Hydrogen, Bio Gas, Nitrogen and Air.

CV300 Series Heavy Duty Check Valves

Materials

Item	Part	Material
1	Body	316 Stainless steel
2	End cap	316 Stainless steel
3	Body insert	6061 Aluminium
4	Poppet	316 Stainless steel

Item	Part	Material
5	Poppet spring	304 Stainless steel
6	Poppet seal	B16 PEEK
7	End Cap O-rings	Nitrile

Product Information

Designed for unidirectional flow, direction shown on valve.

Multiple thread options available:
NPT threads conform to ASME B1.20.1
SAE threads conform to SAE J1926-1
ORFS threads conform to SAE J1453-1
BSP threads conform to ISO 228-1

All products are manufactured to ISO 9001 standards.

Complies to ISO 5208:2015(E), Leak Rate A - No leakage

Complies to PED 2014/68/EU.

CRN (0C19859.5CADD2) approved for all provinces and territories.

Features & Benefits

Check valves with a two-piece body and one-peice poppet, set the standard in flow rates, strength and reliable sealing performance.

Precision manufactured from certified stainless steel bar stock, provides endurance and reliability in any application.

Heavy Duty range utilizes different springs and poppets specifically designed for applications where chatter or turbulent flow is an issue.

Flow protected springs with optimized flow paths give increased flow rates and greater resistance to chatter.

Easy to install service kits are readily available, allowing in-field servicing and reduced downtime.

Heavy Duty service kits are inter-changeable with standard valves allowing greater versatility.

We reserve the right to modify product specifications without prior notice.

2624 © Oasis Engineering Limited

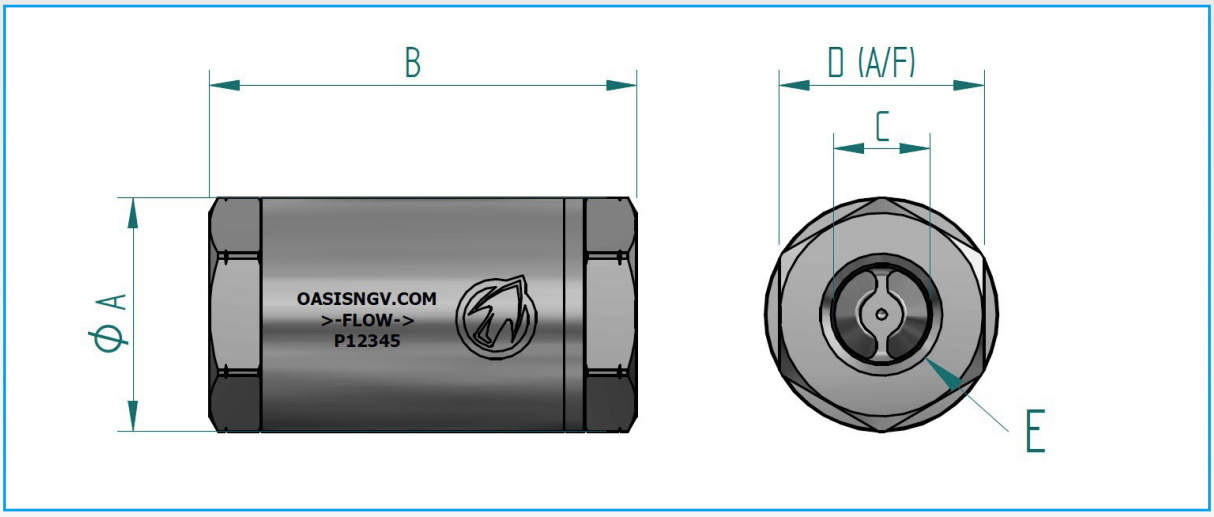
Oasis / MEMBER OF THE ELAFLEX GROUP

300 Series Heavy Duty Check Valves

NPT Product Specification

Part Code	Mass lb (kg)	Min. Crack Pressure psi(bar)*	Max. Operating Pressure psi (bar)**	Min Temp. °F (°C)	Max Temp. °F (°C)	Cycles Before Rekit^	Cv	Service Kit
CV304-6NXFN	1.1 (0.5)	20 (1.38)	6000 (410)	-40 (-40)	185 (85)	15,000	8	CV304-SKXFN
CV306-6NXFP	3.28 (1.49)	20 (1.38)	6000 (410)	-40 (-40)^^	185 (85)	15,000	23	CV306-SKXFP
CV308-6NXFP	5.79(2.63)	20 (1.38)	6000 (410)	-40 (-40)^^	185 (85)	15,000	34	CV308-SKXFP

* Minimum upstream pressure at which the valve will open.
** Maximum pressure at which the product can continuously operate.
^ One cycle refers to the application of max operating pressure in the opposite direction of flow. It is recommended that the check valve is re-kitted on or before the maximum number of allowable cycles.
^^ This product uses a low temperature nitrile O-ring compound and may be suitable for use down to -65°F (-54°C) in certain applications. Contact Oasis to discuss your requirements.



NPT Dimensions Inch (mm)

Part Code	Size	Diameter ∅ A	Length B	Bore C	Hex D (A/F)	Port Thread E
CV304-6NXFN	1/2”	1.49 (38)	2.85 (72.5)	0.51 (13)	1.31 (33.4)	1/2” NPT Female
CV306-6NXFP	3/4”	2.15 (54.5)	3.94 (100)	0.79 (20.1)	1.89 (48)	3/4” NPT Female
CV308-6NXFP	1”	2.72 (69.2)	4.29 (109)	0.98 (24.9)	2.36 (60)	1” NPT Female

We reserve the right to modify product specifications without prior notice.

Oasis Engineering Ltd. 129 Birch Ave, Tauranga, 3110, New Zealand, Ph +64 7 9283808, info@oasisngv.com, www.oasisngv.com

2624 © Oasis Engineering Limited

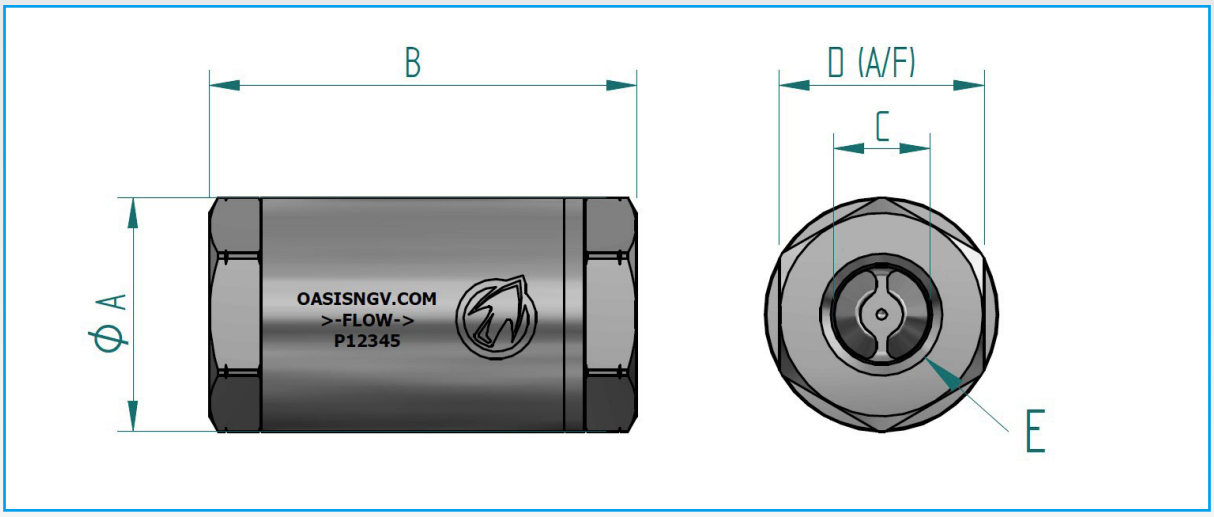
Oasis / MEMBER OF THE ELAFLEX GROUP

300 Series Heavy Duty Check Valves

SAE Product Specification

Part Code	Mass lb (kg)	Min. Crack Pressure psi(bar)*	Max. Operating Pressure psi (bar)**	Min Temp. °F (°C)	Max Temp. °F (°C)	Cycles Before Rekit^	Cv	Service Kit
CV304-6SXFN	1.1 (0.5)	20 (1.38)	6000 (410)	-40 (-40)	185 (85)	15,000	8	CV304-SKXFN-S
CV306-6SXFP	3.28 (1.49)	20 (1.38)	6000 (410)	-40 (-40)^^	185 (85)	15,000	23	CV306-SKXFP-S
CV308-6SXFP	5.79(2.63)	20 (1.38)	6000 (410)	-40 (-40)^^	185 (85)	15,000	34	CV308-SKXFP-S

* Minimum upstream pressure at which the valve will open.
** Maximum pressure at which the product can continuously operate.
^ One cycle refers to the application of max operating pressure in the opposite direction of flow. It is recommended that the check valve is re-kitted on or before the maximum number of allowable cycles.
^^ This product uses a low temperature nitrile O-ring compound and may be suitable for use down to -65°F (-54°C) in certain applications. Contact Oasis to discuss your requirements.



SAE Dimensions Inch (mm)

Part Code	Size	Diameter ∅ A	Length B	Bore C	Hex D (A/F)	Port Thread E
CV304-6SXFN	1/2”	1.49 (38)	2.85 (72.5)	0.51 (13)	1.31 (33.4)	3/4-16 SAE Female
CV306-6SXFP	3/4”	2.15 (54.5)	3.94 (100)	0.79 (20.1)	1.89 (48)	1 1/16-12 SAE Female
CV308-6SXFP	1”	2.72 (69.2)	4.29 (109)	0.98 (24.9)	2.36 (60)	1 5/16-12 SAE Female

We reserve the right to modify product specifications without prior notice.

Oasis Engineering Ltd. 129 Birch Ave, Tauranga, 3110, New Zealand, Ph +64 7 9283808, info@oasisngv.com, www.oasisngv.com

2624 © Oasis Engineering Limited

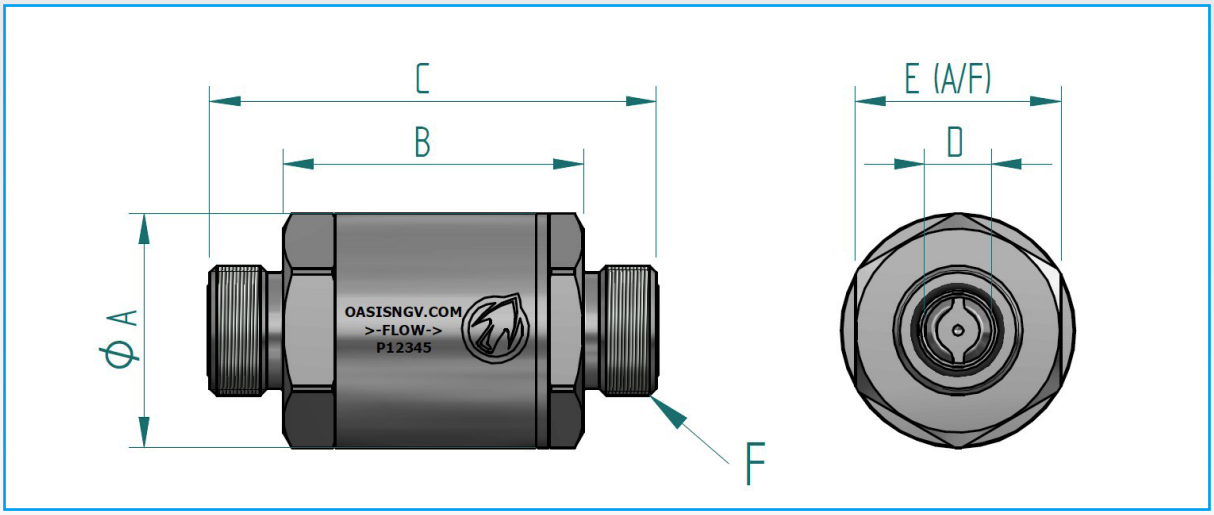
Oasis / MEMBER OF THE ELAFLEX GROUP

300 Series Heavy Duty Check Valves

ORFS Product Specification

Part Code	Mass lb (kg)	Min. Crack Pressure psi(bar)*	Max. Operating Pressure psi (bar)**	Min Temp. °F (°C)	Max Temp. °F (°C)	Cycles Before Rekit^	Cv	Service Kit
CV304-6FXFN	0.9(0.4)	20 (1.38)	6000 (410)	-40 (-40)	185 (85)	15,000	2.6	CV304-SKXFN-F
CV306-6FXFP	2.5(1.12)	20 (1.38)	6000 (410)	-40 (-40)^^	185 (85)	15,000	10.5	CV306-SKXFP-F
CV308-6FXFP	4.3(1.95)	20 (1.38)	6000 (410)	-40 (-40)^^	185 (85)	15,000	24.8	CV308-SKXFP-F

* Minimum upstream pressure at which the valve will open.
** Maximum pressure at which the product can continuously operate.
^ One cycle refers to the application of max operating pressure in the opposite direction of flow. It is recommended that the check valve is re-kitted on or before the maximum number of allowable cycles.
^^ This product uses a low temperature nitrile O-ring compound and may be suitable for use down to -65°F (-54°C) in certain applications. Contact Oasis to discuss your requirements.



ORFS Dimensions Inch (mm)

Part Code	Size	Diameter ∅ A	Length B	Length C	Bore ∅ D	Hex E (A/F)	End Thread F
CV304-6FXFN	1/2”	1.49 (38)	2 (50.8)	3 (76.8)	0.4 (9.5)	1.31 (33.4)	13/16-16 UN ORFS
CV306-6FXFP	3/4”	2.15 (54.5)	2.76 (70)	4.1 (104)	0.6 (15.5)	1.89 (48)	1 3/16-12 UN ORFS
CV308-6FXFP	1”	2.72 (69.2)	3 (77)	4.4 (112)	0.8 (20.5)	2.36 (60)	1 7/16-12 UN ORFS

We reserve the right to modify product specifications without prior notice.

Oasis Engineering Ltd. 129 Birch Ave, Tauranga, 3110, New Zealand, Ph +64 7 9283808, info@oasisngv.com, www.oasisngv.com

2624 © Oasis Engineering Limited

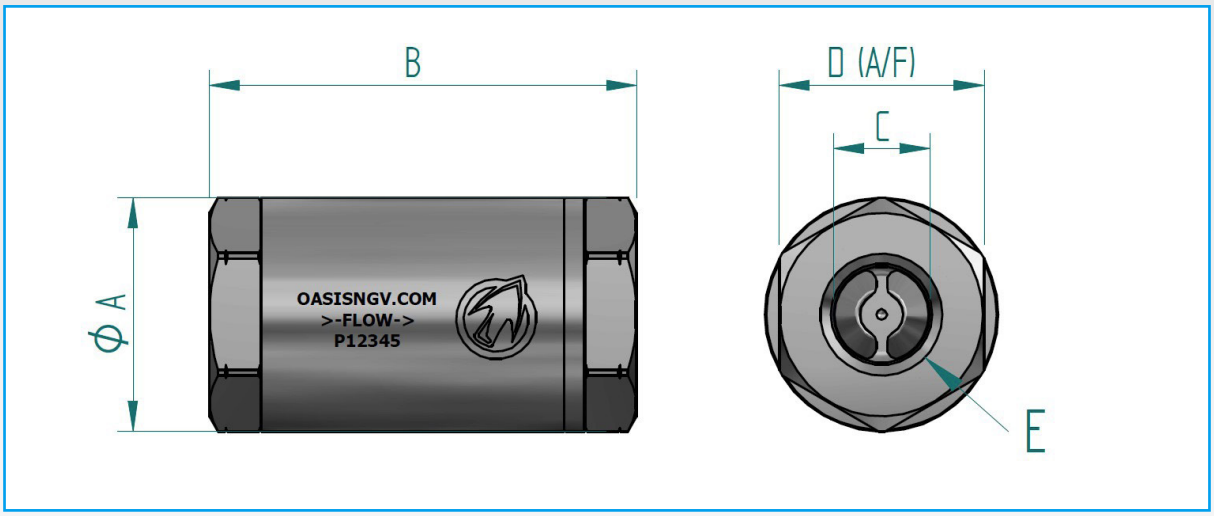
Oasis / MEMBER OF THE ELAFLEX GROUP

300 Series Heavy Duty Check Valves

BSP Product Specification

Part Code	Mass lb (kg)	Min. Crack Pressure psi(bar)*	Max. Operating Pressure psi (bar)**	Min Temp. °F (°C)	Max Temp. °F (°C)	Cycles Before Rekit^	Cv	Service Kit
CV304-6BXFN	1.1 (0.5)	20 (1.38)	6000 (410)	-40 (-40)	185 (85)	15,000	8	CV304-SKXFN-B
CV306-6BXFP	3.28 (1.49)	20 (1.38)	6000 (410)	-40 (-40)^^	185 (85)	15,000	23	CV306-SKXFP-B
CV308-6BXFP	5.79(2.63)	20 (1.38)	6000 (410)	-40 (-40)^^	185 (85)	15,000	34	CV308-SKXFP-B

* Minimum upstream pressure at which the valve will open.
** Maximum pressure at which the product can continuously operate.
^ One cycle refers to the application of max operating pressure in the opposite direction of flow. It is recommended that the check valve is re-kitted on or before the maximum number of allowable cycles.
^^ This product uses a low temperature nitrile O-ring compound and may be suitable for use down to -65°F (-54°C) in certain applications. Contact Oasis to discuss your requirements.



BSP Dimensions Inch (mm)

Part Code	Size	Diameter ∅ A	Length B	Bore C	Hex D (A/F)	Port Thread E
CV304-6BXFN	1/2”	1.49 (38)	2.85 (72.5)	0.51 (13)	1.31 (33.4)	1/2” BSPP
CV306-6BXFP	3/4”	2.15 (54.5)	3.94 (100)	0.79 (20.1)	1.89 (48)	3/4” BSPP
CV308-6BXFP	1”	2.72 (69.2)	4.29 (109)	0.98 (24.9)	2.36 (60)	1” BSPP

We reserve the right to modify product specifications without prior notice.

Oasis Engineering Ltd. 129 Birch Ave, Tauranga, 3110, New Zealand, Ph +64 7 9283808, info@oasisngv.com, www.oasisngv.com

2624 © Oasis Engineering Limited