



# FV103 Light Duty Fill Valve & Transit Nozzle

## Application

CNG and Bio-Gas dispenser for filling vehicles with CNG and Bio-Gas as well as trailer load/unload systems.



FV103-9-10B-0 - Light Duty Fill Valve



FV103-9-11B-G - P36 Light Duty Transit Nozzle

## Materials

Item	Description	Material
1	90° Valve Body	6061 Aluminium
2	Valve Caps	304/316 Stainless Steel
3	Seats	Delrin
4	Balls	316 Stainless Steel
5	Stems	316 Stainless Steel
6	Thrusts	Delrin
7	Glands	Delrin

Item	Description	Material
8	Stem O-rings	Nitrile
9	Stem Backup	Nitrile
10	Cap & Seat O-rings	Nitrile
11	Spring Washer	304 Stainless Steel
12	Stem Nuts	304 Stainless Steel
13	Valve Handle	304 Stainless Steel
14	NGV1 Nozzle	See NC203 Spec Sheet

## Product Information

All products are manufactured under ISO 9001 accredited standards.

The FULL FLOW design means more gas is dispensed faster to the vehicle, maximising the number of vehicle fills per day and minimising wasted gas.

Nozzle tested to ANSI/CGA NGV1 Standard.

Complies to PED 2014/68/EU.

CRN (0C23503.5C and 0A23666.5C) approved for all provinces.

Instructions available online at [www.oasisngv.com/resources](http://www.oasisngv.com/resources).

## Features & Benefits

The Oasis Light Duty Transit Nozzle redefines the flow rate standard for NGV gas delivery.

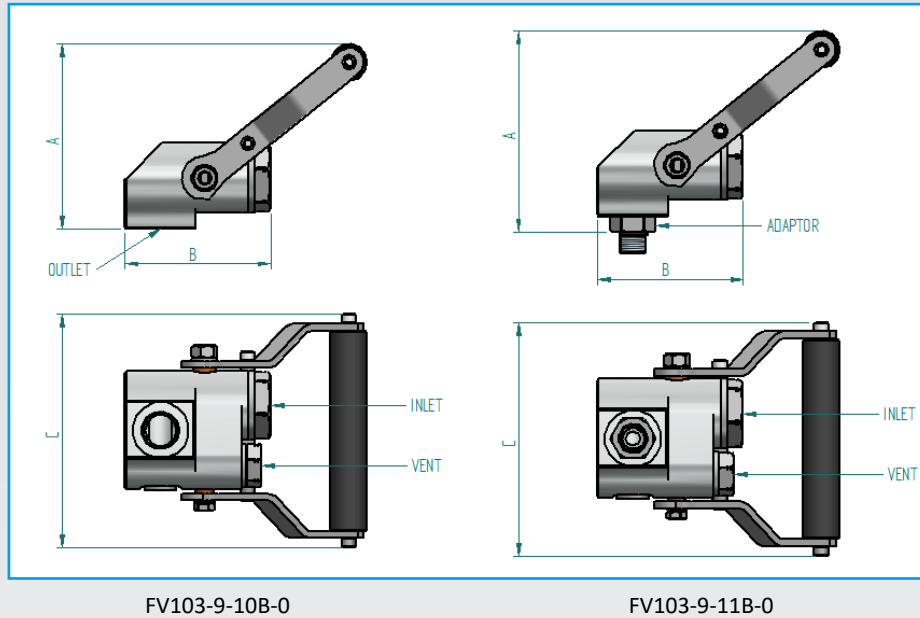
Intuitive fill valve operation.

All Oasis Light Duty Transit Nozzles are easily serviced in the field using Oasis's product specific service kits.

Adaptors are available to extend the position of the nozzle.



# FV103 Light Duty Fill Valve & Transit Nozzle



FV103-9-10B-0

FV103-9-11B-0

## Dimensions Inch (mm)

Part Code	Size	A	B	C	Vent	Inlet	Outlet / Adaptor
FV103-9-10B-0	3/8"	4.02 (102)	3.15 (80)	5.04 (128)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	3/4 - 16 SAE Female / None
FV103-9-11B-0	3/8"	4.33 (110)	3.15 (80)	5.04 (128)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	9/16 - 18 SAE Male / Adaptor
FV103-9-1EB-0	3/8"	5.95 (151)	3.15 (80)	5.04 (128)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	9/16 - 18 SAE Male / 50mm Extension
FV103-9-1FB-0	3/8"	7.91 (201)	3.15 (80)	5.04 (128)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	9/16 - 18 SAE Male / 100mm Extension

## Product Specification

Part Code	Mass lb (kg)	Min. Operating Pressure psi (bar) *	MAWP psi (bar) **	Min. Temp. °F (°C)	Max. Temp. °F (°C)	Stem Open Torque ft-lb (Nm)	Cycles Before Rekit <sup>^</sup>	Cv <sup>+</sup>	Light Duty Fill Valve Service Kit
FV103-9-10B-0	1.70 (0.77)	7 (0.5)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	3.3	FV103-SKLD
FV103-9-11B-0	1.79 (0.81)	7 (0.5)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	3.3	FV103-SKLD
FV103-9-1EB-0	2.03 (0.92)	7 (0.5)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	3.3	FV103-SKLD
FV103-9-1FB-0	2.36 (1.07)	7 (0.5)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	3.3	FV103-SKLD

\* Minimum system pressure the product will hold constant bubble tight seal.

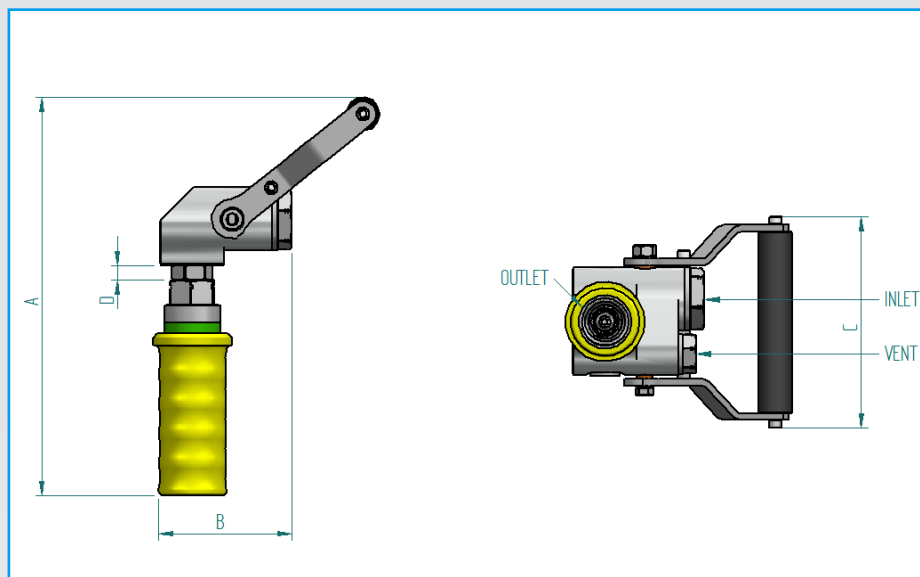
\*\* Maximum Allowable Working Pressure, maximum pressure at which the product can continuously operate.

<sup>^</sup> It is recommended that the fill valve is re-kitted on or before the maximum number of allowable cycles.

<sup>+</sup> Tested in accordance with ANSI/ISA 75.02.01:2008.



# FV103 Light Duty Fill Valve & Transit Nozzle



## Dimensions Inch (mm)

Part Code	Size	A	B	C	D (Adaptor length)	Vent	Inlet	Outlet
FV103-9-11B-F	3/8"	9.17 (233)	3.19 (81)	5.04 (128)	0.35 (9)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	NGV1 P30
FV103-9-11B-G	3/8"	9.45 (240)	3.19 (81)	5.04 (128)	0.35 (9)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	NGV1 P36
FV103-9-1EB-F	3/8"	10.79 (274)	3.19 (81)	5.04 (128)	1.97 (50)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	NGV1 P30
FV103-9-1EB-G	3/8"	11.06 (281)	3.19 (81)	5.04 (128)	1.97 (50)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	NGV1 P36
FV103-9-1FB-F	3/8"	12.76 (324)	3.19 (81)	5.04 (128)	3.94 (100)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	NGV1 P30
FV103-9-1FB-G	3/8"	13.03 (331)	3.19 (81)	5.04 (128)	3.94 (100)	7/16 - 20 SAE Female	9/16 - 18 SAE Female	NGV1 P36

## Product Specification

Part Code	Mass lb (kg)	Service Pressure psi (bar) *	MAWP psi (bar) **	Min. Temp. °F (°C)	Max. Temp. °F (°C)	Stem Open Torque ft-lb (Nm)	Cycles Before Rekit <sup>^</sup>	Cv <sup>+</sup>	Light Duty Transit Nozzle Service Kits
FV103-9-11B-F	3.24 (1.47)	3000 (207)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	1.6	FV103-SKLD / NC203-SK1
FV103-9-11B-G	3.24 (1.47)	3600 (248)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	1.6	FV103-SKLD / NC203-SK1
FV103-9-1EB-F	3.48 (1.58)	3000 (207)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	1.6	FV103-SKLD / NC203-SK1
FV103-9-1EB-G	3.48 (1.58)	3600 (248)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	1.6	FV103-SKLD / NC203-SK1
FV103-9-1FB-F	3.79 (1.72)	3000 (207)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	1.6	FV103-SKLD / NC203-SK1
FV103-9-1FB-G	3.79 (1.72)	3600 (248)	4532 (312.5)	-40 (-40)	185 (85)	3.7 (5)	100,000	1.6	FV103-SKLD / NC203-SK1

\* System pressure that the product is designed for.

\*\* Maximum pressure at which the product can constantly operate at.

<sup>^</sup> It is recommended that the fill valve is re-kitted on or before the maximum number of allowable cycles.

<sup>+</sup> Experimentally tested in accordance with ANSI/ISA 75.02.01:2008.

