

CARB APPLICATION FORM FOR COMPLIANCE WITH THE FILL PIPE REQUIREMENTS

Manufacturer

Model Year

Terms and symbols used below are the same as those defined in "Specifications for Fill Pipes and Openings of 2015 and Subsequent Motor Vehicle Fuel Tanks", amended May 31, 2019 (CARB Fill Pipe Spec.) (Refer to ISO-13331-1995[E] as adopted June 1, 1995)

<u>General Specification</u>		<u>ARB Specification</u>	<u>ISO-13331 Reference or Noted Otherwise</u>	<u>Manufacturer Specification¹</u>
1	Angle α in degrees	-10° < α < 20°	2.8 & 3.4/Fig 2a & 3a	
2	Spill Prevention in degrees (angle btwn. centerline of test spout in resting position and the horiz. plane)	30° (MIN)	3.5	
3	Test nozzle penetration of restrictor	2.25 cm or 22.5 mm(MIN)	3.4	
4	Angle β in degrees	none	2.9/Fig 2b & 3b	
<u>Fill Pipe Specification</u>				
1	Fill Pipe face surface in TIR	0.025 cm or 0.25 mm(MAX)	3.1/Fig 1	
2a	Fill Pipe face outside diameter: unless meets criteria in 2b. Below	5.75 cm or 57.5 mm(MAX)	3.1/Fig 1	
		5.20 cm or 52.0 mm(MIN)	3.1/Fig 1	
2b	Fill Pipe face outside diameter: criteria: new fill pipe head design starting MY 2024	5.79 cm or 57.9 mm(MAX)	3.1/Fig 1	
		5.20 cm or 52.0 mm(MIN)	CARB Fill Pipe Spec.	
3	Internal locking lip in degrees of the inside circumference	100° (MIN)	3.2/Fig 2 and 3	
	degrees extending each side of ref. plane	35° (MIN) LS ²	3.2/Fig 2 and 3	
		each side RS ²	3.2/Fig 2 and 3	
4	Height of lip measured from fill pipe inside wall; or	0.25 cm or 2.5 mm(MIN)	3.2	
	height of lip measured from fill pipe outside wall for outside diameters between 5.20 and 5.75 cm.	0.85 cm or 8.5 mm(MIN)	3.2	
5a	Depth of lip (D) in centimeters: unless meets criteria in 5b. Below	0.4 < D < 1.3	3.2	
5b	Depth of lip (D) in centimeters: criteria: new fill pipe head design starting MY 2024	0.4 < D < 1.1	CARB Fill Pipe Spec.	
<u>Offset</u>				
	Offset A	none	3.3.1/Fig 5 shown as "f"	
	Offset B	none	3.3.1/Fig 5 shown as "g"	
6a	Fill Pipe Face Clearance (Axial): unless meets criteria in 7b. Below	0.25 cm or 2.5 mm (MIN)	Fig 5 shown as "2.5"	
6b	Fill Pipe Face Clearance (Axial): criteria: new fill pipe head design starting MY 2024	40 degrees out to 12 mm depth	CARB Fill Pipe Spec.	
7a	Fill Pipe Face Clearance (Radial): unless meets criteria in 7b. below	≥ 40 mm	Fig 5 shown as "R40"	Yes / No
7b	Fill Pipe Face Clearance (Radial): criteria: new fill pipe head design starting MY 2024	≥ 43 mm	CARB Fill Pipe Spec.	Yes / No
8	Fill Pipe Face Inside Diameter	49.8 mm(MAX)	Fig 1	
9	Bench Leak Test: Phase in schedule in CARB Fill Pipe Spec.	2.5 L/Min (MAX) at 500 Pa Vacuum		
10	Capped or Capless			
11	Seal (Mechanical or Liquid)			
12	Disruption in the Fill Pipe Face			
13	ORVR Design (I / NI / NIRCO / NO) ³			

14	Type (Threaded or Bayonet)	Fig 1	
15	Usage of Design (Models or Evaporative Family(s))		
16	Total vehicle model year sales		

¹ dimension should include adverse tolerance condition

² LS = Left side of reference plane, RS = Right side of reference plane

³ ORVR Design : Integrated (I)/Non-Integrated(NI)/Non-Integrated Refueling Canister Only (NIRCO)/Non-ORVR(NO)