



AIR DRYER APPLICATION GUIDELINE

The following Application Guideline is a point system that is calculated based on Vehicle Configuration and Vocation Options. Fill in points accordingly — on each line — and refer to Pages 2-3 for dryer selections. If a particular entry is not valid for an application, then enter ZERO (0) on that line. Refer to Pages 4-6 for example applications.

Vehicle Configuration	+ Add or - Subtract	Points Total
1. Vehicle is equipped with bulk offloading or central tire inflation.		See Note 1
2. For every axle (tractor and trailer – including lifts):	+ 1.0 point	
3. For each non-steerable lift axle (additional points):	+ 1.0 point	
4. For each steerable lift axle (additional points):	+ 0.5 point	
5. Tractor and/or trailer is equipped with air suspension:	+ 0.5 point	
6. Air dryer equipped with Bendix® PuraGuard® cartridge:	- 0.25 point	
7. For each tractor axle (any type) with Bendix® Air Disc Brakes (ADB): *Point credit for ADB is based on right-sizing the reservoirs according to FMVSS 121.	- 0.25 point	
Vocation Options (choose the one that best fits)		
8. Vehicle is used as a city transit bus.		See Note 2
9. Vehicle is used for pickup & delivery.		
a) Non-fuel hauler:	+ 0.5 point	
b) Fuel hauler:	+ 1.0 point	
10. Vehicle is used for residential refuse.	+ 4.5 point	
11. Vehicle is used for rural or commercial refuse.	+ 1.0 point	
12. Vehicle is used as a dump truck or concrete mixer.	+ 1.0 point	
13. Vehicle is used for logging or construction.	+ 1.0 point	
14. Vehicle is used for line haul.		
a) Single trailer:	0 point	
b) Pulling three (3) to five (5) axles on any trailer/dolly combination:	- 1.5 point	
c) Pulling six (6) or more axles on any trailer/dolly combination:	- 2.5 point	
15. Add lines 1-14, round up to the nearest 0.5 point, use this value on Page 3.		

¹Vehicles equipped with either bulk offloading or central tire inflation are required to use two air dryers with a Bendix® EverFlow® controller assembly. No points need to be calculated. Refer to Page 2 for proper dryer selection.

²Requires an Extended Purge version of the air dryer or a Bendix® AD-HFi™ with interrupted charge function (Bendix® AD-9® EP, AD-9si® EP, AD-IP® EP, AD-HF® EP, AD-HFi™, and AD-HFi™ EP). No points need to be calculated. Refer to Pages 2 & 3 for proper air dryer selection.



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Application		Increasing Performance					Bendix® Air Dryers	
		Point Total	AD-SP®	AD-9®, AD-9si®, AD-IP®, AD-HF®6, AD-HFi™	AD-9® EP, AD-9si® EP, AD-IP® EP, AD-HF® EP6, AD-HFi™, AD-HFi™ EP	Tandem Installed Dryers ⁴ or a single AD-HFi™ EP	Bendix® EverFlow® Assembly ⁵	
	Highway Travel Coach / RV	N/R		✓				
	City Transit Bus	N/R			✓			
	Air/Hydraulic	N/R	✓ ³	✓				
	School Bus City / Rural Route	N/R	✓ ³	✓				
	Fire Truck	2-6		✓				
		6.5-9			✓			
	Pick-up & Delivery Fuel Hauler (Non-Bulk Offloading)	2-6	✓ ³	✓				
		6.5-9			✓			
		9.5-13				✓	✓	
	Line Haul	2-6	✓ ³	✓				
		6.5-9			✓			
	Rural and Commercial Refuse / Yard and Terminal Jockey	2-4		✓	✓			
	Residential Refuse (with and without Work Brake)	6.5-9			✓			
	Dump Truck / Concrete Mixer	2-6		✓				
		6.5-9			✓			
	Off-Highway / Construction / Loggers	2-6		✓				
		6.5-9			✓			
		9.5-13				✓	✓	
	Bulk Offloading	N/R					✓	
	Central Tire Inflation	N/R					✓	
Reservoir Drainage Frequency			Check Monthly		Monthly / 4000 Miles			

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Bendix® AD-9® / AD-9si® / AD-IP® / AD-HF® Air Dryers	Point Totals																
Standard Purge																	
Extended Purge																	
Tandem Installed Dryers																	
EverFlow® Assembly																	
Points	2	3	4	5	6	6.5	7	8	9	9.5	10	11	12	13	14	15	16 or above
Electronic Controlled Air Dryers	Point Totals																
AD-HFi™ Standard Purge																	
AD-HFi™ EP (Extended Purge)																	
Points	2	3	4	5	6	6.5	7	8	9	9.5	10	11	12	13	14	15	16 or above

The application chart is for reference only. If your vehicle does not fall into these specifications, contact Bendix Engineering or the Bendix Tech Team at 1-800-AIR-BRAKE (1-800-247-2725), option 2.

N/R – Not Required – Application is not dependent on point totals.

³ When selecting a Bendix® AD-SP® air dryer, note this dryer is intended for servicing low-demand air systems. For example, Line Haul applications are limited to single tandem axle trailers.

⁴ Tandem dryers must be matched models (i.e. two Bendix® AD-HF® or two Bendix® AD-9® air dryers, etc.). Both dryers must be extended purge versions. A single Bendix® AD-HFi™ EP will also meet the requirements of these applications.

⁵ There is no required compressor charge time or purge time. Operation is controlled through the Bendix® EverFlow® module.

⁶ The Bendix® AD-HF® air dryer's predecessor is the Bendix® AD-IS® air dryer.

AIR DRYER APPLICATION GUIDELINE USAGE EXAMPLES



A typical single axle, line haul vehicle:

- Tractor air suspension.
- Three (3) axles total.
- Bendix® PuraGuard® air dryer.
- Two (2) tractor axles with ADB.

Example #1: Typical Line Haul Application

Vehicle Configuration	Points
1. Not Applicable	0
2. Total number of all axles	+ 3.0
3. Total number of non-steerable lift axles	0
4. Total number of steerable lift axles	0
5. Tractor is equipped with air suspension	+ 0.5
6. Air dryer equipped with a Bendix® PuraGuard® cartridge	- 0.25
7. Total number of tractor axles with Bendix® Air Disc Brakes (ADB)	- 0.50
Vocation Options	
8, 9, 10, 11, 12, 13 Not Applicable	0
14. Standard line-haul hauling single trailer	0
Total [3.0 + 0.5 - 0.25 - 0.50] = 2.75 points	3.0*

* Rounded up according to note in line item 15 on page 1

Selection choices include: Bendix® AD-SP®, AD-9®, AD-9si®, AD-IP®, AD-HF®, or AD-HFi™ air dryers.



A 4x2 line haul vehicle pulling:

- Two (2) single axle trailers.
- One (1) single axle dolly.
- Tractor air suspension.
- Five (5) axles total.

Example #2: Line Haul Pulling Single Axle Double

Vehicle Configuration	Points
1. Not Applicable	0
2. Total number of all axles	+ 5.0
3. Total number of non-steerable lift axles	0
4. Total number of steerable lift axles	0
5. Tractor is equipped with air suspension	+ 0.5
6. Air dryer equipped with a PuraGuard cartridge	0
7. Total number of tractor axles with Air Disc Brakes (ADB)	0
Vocation Options	
8, 9, 10, 11, 12, 13 Not Applicable	0
14. Vehicle is used for line haul (3-5 axles)	-1.5
Total [5.0 + 0.5 - 1.5] = 4.0 points	4.0

Selection choices include: Bendix® AD-9®, AD-9si®, AD-IP®, AD-HF®, or AD-HFi™ air dryers.

NOTE: A Bendix® AD-SP® air dryer is not acceptable in this application.

AIR DRYER APPLICATION GUIDELINE USAGE EXAMPLES



- A bulk gravel hauling vehicle:
- Two (2) non-steerable lift axles.
 - Truck equipped with air suspension.
 - Seven (7) axles total.

Example #3: Bulk Gravel Hauler	
Vehicle Configuration	Points
1. Not Applicable	0
2. Total number of all axles	+ 7.0
3. Total number of non-steerable lift axles	+ 2.0
4. Total number of steerable lift axles	0
5. Tractor is equipped with air suspension	+ 0.5
6. Air dryer equipped with Bendix® PuraGuard® cartridge	0
7. Total number of tractor axles with Bendix® Air Disc Brakes (ADB)	0
Vocation Options	
8, 9, 10, 11, 14 Not Applicable	0
12. Vehicle is used as a dump truck	+ 1.0
13. Vehicle is used for construction	+ 1.0
Total [7.0 + 2.0 + 0.5 + 1.0 + 1.0] = 11.5 points	11.5

Selection choices include tandem installation of Bendix® AD-9® EP, AD-9si® EP, AD-IP® EP, or AD-HF® EP air dryers or a single AD-HFi™ EP air dryer.



- A fuel delivery vehicle:
- Tractor air suspension.
 - One (1) non-steerable lift axle.
 - Seven (7) axles total.

Example #4: Fuel Hauler (Equipped with Bulk Offloading)	
Vehicle Configuration	Points
1. Vehicle is equipped with bulk offloading, no points need to be calculated	N/R
Total points = N/R (Not Required)	

NOTE: Use Bendix® EverFlow® air dryer assembly.

AIR DRYER APPLICATION GUIDELINE USAGE EXAMPLES



A fuel delivery vehicle:

- Tractor air suspension.
- One (1) non-steerable lift axle.
- Seven (7) axles total.

Example #5: Fuel Hauler (NOT Equipped with Bulk Offloading)

Vehicle Configuration	Points
1. Not Applicable	0
2. Total number of all axles	+ 7.0
3. Total number of non-steerable lift axles	+ 1.0
4. Total number of steerable lift axles	0
5. Tractor is equipped with air suspension	+ 0.5
6. Air dryer equipped with Bendix® PuraGuard® cartridge	0
7. Total number of tractor axles with Bendix® Air Disc Brakes (ADB)	0
Vocation Options	
9. Vehicle is a fuel hauler	+ 1.0
8, 10, 11, 12, 13, 14 Not Applicable	0
Total [7.0 + 1.0 + 0.5 + 1.0] = 9.5 points	9.5

Selection choices include tandem installation of Bendix® AD-9® EP, AD-9si® EP, AD-IP® EP, or AD-HF® EP air dryers or a single AD-HFi™ EP air dryer.



A fuel delivery vehicle:

- Tractor air suspension.
- One (1) non-steerable lift axle.
- Seven (7) axles total.
- Bendix PuraGuard cartridge.
- Three (3) tractor axles with ADB.

Example #6: Fuel Hauler (NOT Equipped with Bulk Offloading)

Vehicle Configuration	Points
1. Not Applicable	0
2. Total number of all axles	+ 7.0
3. Total number of non-steerable lift axles	+ 1.0
4. Total number of steerable lift axles	0
5. Tractor is equipped with air suspension	+ 0.5
6. Air dryer equipped with PuraGuard cartridge	- 0.25
7. Total number of tractor axles with Air Disc Brakes (ADB)	- 0.75
Vocation Options	
9. Vehicle is a fuel hauler	+ 1.0
8, 10, 11, 12, 13, 14 Not Applicable	0
Total [7.0 + 1.0 + 0.5 - 0.25 - 0.75 + 1.0] = 8.5 points	8.5

Selection choices include: Bendix® AD-9® EP, AD-9si® EP, AD-IP® EP, or AD-HF® EP, AD-HFi™ or AD-HFi™ EP air dryers.