



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 **Page 2** for dryer selections. If a particular entry is not valid for an application, then enter **ZERO** on that line. Refer to **Page 3** for example applications.

<u>VEHICLE CONFIGURATION</u>	<u>POINTS</u>
1. Vehicle is equipped with bulk offloading or Central tire inflation.	<u>See Note 1</u>
2. For every axle (tractor and trailer – including lifts): Add 1.0 point	_____
3. For each non-steerable lift axle (additional points): Add 1.0 point	_____
4. For each steerable lift axle (additional points): Add 0.5 point	_____
5. Tractor and/or trailer is equipped with air suspension. Add 0.5 point	_____
<u>VOCATION OPTIONS (CHOOSE THE ONE THAT BEST FITS)</u>	
6. Vehicle is used as a City Transit Bus.	<u>See Note 2</u>
7. Vehicle is used for pickup & delivery. { a) Non-Fuel Hauler: Add 0.5 point b) Fuel Hauler: Add 1.0 point	_____
8. Vehicle is used for residential refuse. Add 4.5 points	_____
9. Vehicle is used for rural or commercial refuse. Add 1.0 point	_____
10. Vehicle is used as a dump truck or concrete mixer. Add 1.0 point	_____
11. Vehicle is used for logging or construction. Add 1.0 point	_____
12. Vehicle is used for line haul. — a) Single trailer No Points: b) Pulling three (3) to five (5) axles on any trailer/dolly combination: Subtract 1.5 points: c) Pulling six (6) or more axles on any trailer/dolly combination: Subtract 2.5 points:	_____

Add lines 1-12 and use this on Page 2

¹Vehicles equipped with either bulk offloading or central tire inflation are required to use two air dryers with an EverFlow™ Assembly. No points need to be calculated. Refer to **Page 2** for proper dryer selection.

²Requires an Extended Purge version of the dryer (AD-9® EP, AD-IP® EP, AD-IS® EP). No points need to be calculated. Refer to **Page 2** for proper dryer selection.

Bendix Commercial Vehicle Systems LLC
Elyria, OH 44035

Application		Increasing Performance					Air Dryers	
		Point Total	AD-SP®	AD-IP® AD-9® AD-IS®	AD-9® EP AD-IP® EP AD-IS® EP	Tandem Installed Dryers ⁴	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	2-6	✓ ³	✓				
		6.5-9			✓			
	Fuel Hauler (non-Bulk Offloading)	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			

AD-9®/AD-IP®/AD-IS® Dryer Selections	Point Totals																
	2	3	4	5	6	6.5	7	8	9	9.5	10	11	12	13	14	15	16 or above
Standard Purge	■	■	■	■	■												
Extended Purge						■	■	■	■								
Tandem Installed Dryers										■	■	■	■	■			
EverFlow Assembly										■	■	■	■	■	■	■	■

The application chart is for reference only. If your truck does not fall into these guidelines, contact Bendix Engineering or Technical Services at 1-800-AIR-BRAKE.

N/R – No Points Required – Application is not dependent on point totals.

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

⁴Tandem dryers must be matched models (i.e. two AD-IS® or two AD-9®, etc.). Both dryers must be extended purge versions.

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

Bendix Commercial Vehicle Systems LLC

Example #1: Typical Line Haul Application

Vehicle Configuration

1. Not Applicable
2. Total number of all axles = 3 points
3. Total number of non-steerable lift axles = 0 points
4. Total number of steerable lift axles = 0 points
5. Tractor is equipped with air suspension = 0.5 points

A typical single axle, line haul vehicle:

- Air suspension.
- Three (3) axles total.

Vocation Options

- 6, 7, 8, 9, 10, 11 Not Applicable = 0 points
12. Standard line-haul hauling single trailer = 0 points.

Total [3 + 0.5 = 3.5 points]

Selection choices include: AD-SP®, AD-9®, AD-IP® or AD-IS®.

Example #2: Line Haul Pulling Single Axle Double

Vehicle Configuration

1. Not Applicable
2. Total number of all axles = 5 points
3. Total number of non-steerable lift axles = 0 points
4. Total number of steerable lift axles = 0 points
5. Tractor equipped with air suspension = 0.5 points

A 4x2 line haul vehicle pulling:

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

Vocation Options

- 6, 7, 8, 9, 10, 11 Not Applicable = 0 points
12. Vehicle is used for line haul (3-5 axles) = -1.5 points

Total [5 + 0.5 - 1.5 = 4 points]

Selection choices include AD-9®, AD-IP® or AD-IS®.

NOTE: An AD-SP® is not acceptable in this application.

Recommended Service Intervals for Bendix Air Dryers

Air Usage	Typical Vehicle Vocation	Axles	¹ Reservoir Drain Interval (whichever comes first)			¹ Standard Desiccant Cartridge Replacement	² IPC Desiccant Cartridge Replacement		
			Hours	Mileage	Time		AD-9®	AD-IP®	AD-IS®
Standard	Line haul, city delivery	5 or less	900	25,000	3 months	Every 3 years	Every year	Every year	Every year
Medium	Double trailer trains, light transit, light off-highway	8 or less	450	12,000	2 months	Every 2 years	Every year	Every year	Every year
High	Multiple trailer trains, city transit, heavy duty off-road	11 or less	300	6,000	1 month	Every year	Every year	Every year	Every year

¹ Drain reservoirs and change the desiccant cartridge more frequently if more than just traces of moisture are found in any of the reservoirs.

² IPC refers to cartridges that are enhanced with Integrated PuraGuard® Coalescing filtration

