

**AKS
AKD**

**7 or 14 gpm
26.5 or 53 L/min**

Air-Operated Kidney Loop Systems

U.S. Patents 6568919 7604738



AKD



AKS

Features and Benefits

- Modular base eliminates connections between components and minimizes leakage
- Base-ported filter provides easy element service from the top cap
- Single, double and triple bowl length option allows the flexibility of additional dirt-holding capacity
- D5 Dirt Alarm® indicates when filter element needs changed
- Two 7/16 – 20 UNF sampling port included on all models (upstream)
- Suction strainers to protect pump

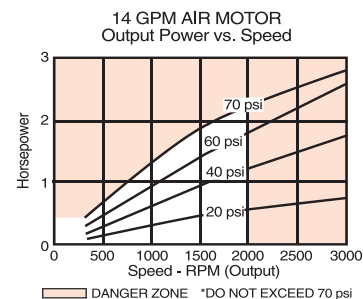
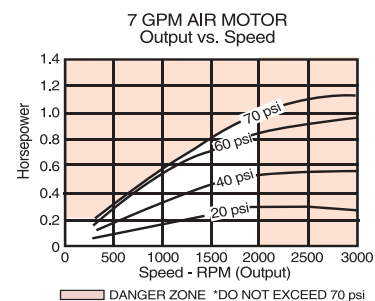
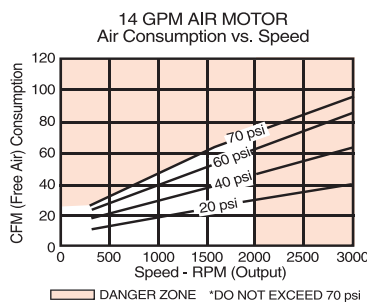
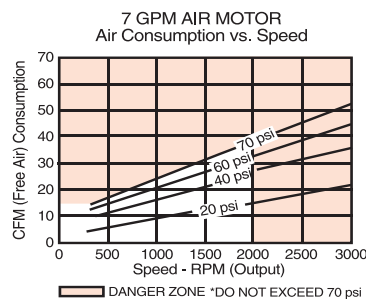
Applications

- Supplementing in-line filtration by system filters when adequate turnover cannot be attained
- Large volume systems requiring multiple filters in different locations
- Cleaning up a hydraulic system following component replacement
- Ideal location for water removal
- Field applications on service trucks

Description

Schroeder offers a kidney loop filtration system with a pneumatic motor in place of the standard electric motor. The pneumatic motor offers the same flow capability using the same components, but without the need for an electrical outlet. This provides a major advantage in the application of this unit. With no need for an electrical outlet, it is more portable than the standard electric-motored skids and carts.

Because most trucks and industrial machinery are already equipped with an air compressor, a simple connection to the 1/4" NPT port will easily power the 1.5 HP (or 4.0 HP) motor. At 70 psi, and 2000 rpm, this motor consumes less than 40 cfm (70 cfm for the 4.0HP motor) of compressed air. Because no electricity is used, the pneumatic motor is ideal for working in hazardous environments such as mines.

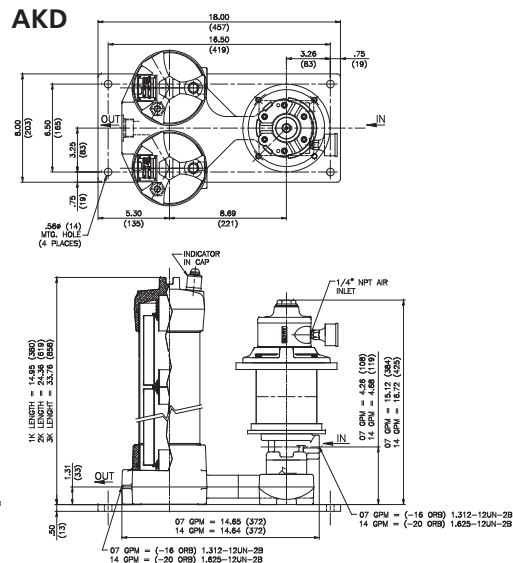
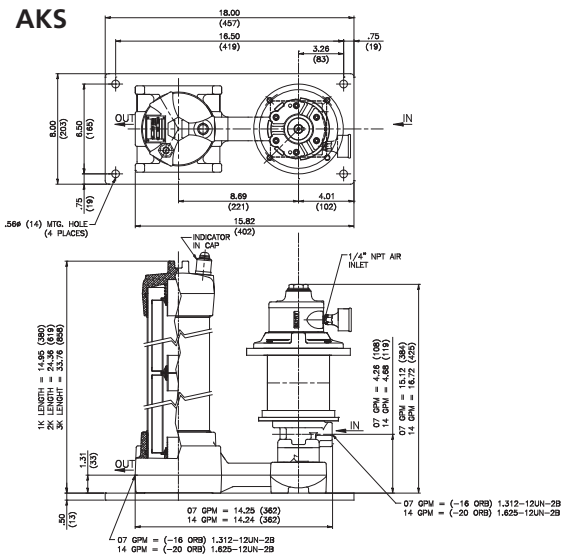


Note: Performance data represents a 4-vane model with no exhaust restriction.

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Metric dimensions in ().

Flow Rating: 7 gpm (26.5 L/min) max and 14 gpm (53.0 L/min) max

Maximum Viscosity: 1,000 SUS (216 cSt)
Higher viscosity version available. Contact factory for details.

Fluid Temperature: 25°F to 150°F (-4°C to 65°C)
For higher temperature applications contact factory.

Bypass Valve Setting: Cracking: 30 psi (2 bar)

Material: Manifold and cap: Cast aluminum
Element case: Steel

Compatibility: All petroleum based hydraulic fluid.
Contact factory for use with other fluids.

Element Change Clearance: 8.50" (215 mm) 1K

Weight: AKS2 = 98 lbs. (44 kg.) AKD2 = 120 lbs. (54 kg.)
AKS3 = 108 lbs. (49 kg.) AKD3 = 142 lbs. (64 kg.)

Specifications

How to Build a Valid Model Number for Schroeder AKS:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
AKD					

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
AKD	1-27	G10	G05	B	14

= AKD1-27G10G05B14

BOX 1		BOX 2		BOX 3		BOX 4	
Model	No. of Elements/ Element Length	Element Media First Filter		Element Media Second Filter (AKD Only)			
AKS	1-18	Z01 = 1 µm Excellement® Z-Media® (synthetic)		Z01 = 1 µm Excellement® Z-Media® (synthetic)			
	1-27	Z03 = 3 µm Excellement® Z-Media® (synthetic)		Z03 = 3 µm Excellement® Z-Media® (synthetic)			
AKD	2-09	Z05 = 5 µm Excellement® Z-Media® (synthetic)		Z05 = 5 µm Excellement® Z-Media® (synthetic)			
	3-09	Z10 = 10 µm Excellement® Z-Media® (synthetic)		Z10 = 10 µm Excellement® Z-Media® (synthetic)			
		Z25 = 25 µm Excellement® Z-Media® (synthetic)		Z25 = 25 µm Excellement® Z-Media® (synthetic)			
		EWR = Water Removal		EWR = Water Removal			
		G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®		G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®			
		G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®		G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®			
		G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®		G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®			
		G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®		G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®			
		GWR = Water Removal w/GeoSeal®		GWR = Water Removal w/GeoSeal®			
BOX 5		BOX 6					
Seal Material	Pump Size (gpm)						
B = Buna	07						
	14						

For replacement element part numbers, please see "Appendix Section - Replacement Elements" of this catalog.

Model Number Selection

NOTES:

Box 5. When AKD is ordered, the number of elements, element length, and seal will be identical for both filter housings.

Box 7.
07 gpm - 50 CFM at 70psi
14 gpm - 70 CFM at 70psi