



Aqua Flow Lubricants®

A Division of Astra Industrial Services, Incorporated

VA-10 • VA-100 • VA-1000 • VA Special 10 *Innovative Lubricants for a Healthier Environment*

Aqua Flow lubricants are a pure synthetic, non-hazardous, biodegradable, totally waterproof, non-contaminating all-purpose lubricant.

Aqua Flow lubricants are the only lubricants that have F.D.A., U.S.D.A., H-1, and E.P.A. acceptance for applications where a lubricant may have incidental contact with food or potable water. There are no hazardous warning labels and waste disposal problems with Aqua Flow lubricants or containers.

Our lubricants will not emulsify in water and have excellent extreme pressure characteristics. We also have superior anti-wear and anti-rust properties, ASTM D-665. It is ideal for all marine applications due to its ability to protect surfaces from salt water. All our lubricants provide a protective coating that will remain pliable and not turn "gummy" or harden.

Aqua Flow will not promote growth of bacteria, algae and other aquatic plant growth. Aqua Flow is a non-carbon based product that does not contain petroleum, vegetable oil, mineral oil, paraffin (wax), clay, varnish, graphite, detergents, or molybdenum disulfide (moly).

All VA products have demonstrated "negative" coliform, microbiological growth support, that satisfies N.S.F. Standard 60 and 61 for a non-contaminating lubricant.

■ Applications

sliding surfaces	automotive	regulator valves
windows	firearms	aviation
doors	O-rings	pulleys
hinges	food processing	pneumatics
bearings	freezers	tools
irrigation equipment	heavy equipment	pumps
valves	bicycles	robotics
gear boxes	boat trailers	releasing agent
wire pulling	fishing reels	faucets
pipeline seal	electric switches	gaskets

■ General Guidelines and Application Methods

For metal surface protection, where there is no washing action or surface friction is minimal, use a very thin grease. For metal protection for heavy movement of surface (e.g.; bearing, chain, etc.) a very heavy grease may be more desirable. Consult equipment manufacturer's recommendation when selecting grease weight (NLGI rating) and temperature limitations. Aqua Flow products may be applied in the manner specified by the equipment manufacturer.

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A Pure Synthetic Grease

VA product formulas will not change the surfaces of styrene, A.B.S., polyethylene, polypropylene, P.V.C., and polycarbonate types of plastic. There is no swelling, softening or discoloration of these plastics. The product has no effect on buna N, EDPM, neoprene, viton, or silicone elastomers. All products are an excellent dielectric. VA-1000 and VA Special 10 have additional extreme thermal stability and some of the highest dielectric properties of all lubricants.

VA-10 will perform in temperatures from -50°F to +300°F and is designed as a light-weight general purpose grease. VA-10 has a working penetration rating, from NLGI, of 0 (380). For use where a thin film grease is required. Dielectric strength of 32 kv/m @ 250°C (ASTM D-2225).

VA-100 will perform in temperatures from -20°F to +440°F and is designed for medium duty applications. VA-100 has a working penetration rating, from NLGI, of 2 (300). Dielectric strength of 30 kv/m @ 250°C (ASTM D-2225).

VA-1000 will perform in temperatures from -10°F to +450°F and is designed as an ultra heavy-duty grease. VA-1000 has a working penetration rating, from NLGI, of 4 (250). Dielectric strength of 30 kv/m @ 250°C (ASTM D-2225).

VA-Special 10 will perform in temperatures from -80°F to +500°F and is designed as an extreme load and low friction coefficient grease. VA-S10 has a working penetration rating, from NLGI, of 2 (280). Dielectric strength of 38 kv/m @ 250°C (ASTM D-2225).

■ Container Sizes Available

	VA10	VA100	VA1000	VASP10
2-cc Pillow Pack	-	-	-	✓
1-oz Plastic Polycon	-	✓	-	✓
8-oz Wide Mouth Jar	✓	✓	-	✓
32-oz Wide Mouth Jar	✓	✓	-	✓
1 gal Plastic Pail	✓	✓	✓	✓
5 gal Plastic Pail	✓	✓	✓	✓
55 gal Drum	✓	✓	✓	✓

■ Warnings

Will not wash out of clothing. No health or disposal cautions. Respirator and eye protection not required unless mandated by normal company safety requirements.

Aqua Flow Technical Specifications

VA Greases

Grease	NLGI No.	W.P.	VIS *1	Pour	Flash	Service Range	0/0 Cargon	Base
VA-10	0	380	64	-50	300	-40 to 280	0	S
VA-100	2	300	970	-20	440	-10 to 410	0	S
VA-1000	4	250	990	-10	450	-5 to 425	0	S
VA-SPEC 10	2	280	1500	-80	500	-60 to 480	0	S

Key

NLGI National Laboratory Grease Institute
W.P. Working Pressure
VIS Oil Viscosity (*1 is @ SUS 210°F)
SUS Saybolt Universal Seconds
Service Range is in °F
Base S is synthetic

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