

# Hydra-Oil Accessories



Hydra-Oil is specially formulated to maximize performance for Hydra-Cell pumps. Wanner Hydra-Oil improves performance and extends pump life in all phases of pump operations. All Hydra-Oil products are designed to withstand severe and constant pressure and temperature changes under which the Hydra-Cell pump operates.

Hydra-Cell pump performance is optimized with the appropriate oil:

- Reduces wear
- Withstands extreme temperature changes
- Improves pump performance
- Extends pump life
- Maintains consistent viscosity
- Withstands extreme pressures

## Hydra-Oil Standard Grade

### 10W30 weight

Hydra-Oil 10W30 is designed for lower temperatures and lighter loads. This oil maintains consistent viscosity over a wide temperature range and repeated cold start-ups.

### 40 weight

Hydra-Oil 40W is designed for continuous use at higher loads and temperatures, and provides exceptional wear resistance and film thickness in extended high temperature applications.

## Hydra-Oil Characteristics

	Standard Grade		EPDM & Food Grade			Synthetic Grade	
	10W30	40W	20W	30W	40W	5W30	15W30
<b>Gravity, API @ 60°F</b>	31.1	28.7	N/A	N/A	N/A	30.4	30.2
<b>Flash Point °F</b>	400	430	425	500	500	445	470
<b>Fire Point °F</b>	440	470	465	530	530	N/A	N/A
<b>Pour Point °F</b>	-30	10	-55	-30	-30	-65	-55
<b>Viscosity: SUS @ 100°F</b>	360	811	321	480	723	265	556
<b>SUS @ 210°F</b>	63	85	53	91	115	60	90
<b>Viscosity Index</b>	148	107	168	190	190	165	170

## Hydra-Oil Synthetic Grade

Hydra-Oil synthetic grade is a blend of synthesized hydrocarbon fluids that provide pure chemicals which do not contain the impurities or waxes inherent in conventional mineral oils. Hydra-Oil Synthetics provide a heavier, more stable protective oil film for bearings and pistons than is provided by similar SAE-grade mineral oils. Synthetics are offered in two grades:

**5W30** cold-temperature severe-duty

**15W50** high-temperature severe-duty

## Hydra-Oil Food Grade

Hydra-Oil food grade is specially formulated for food service industry applications. Hydra-Oil food grade is USDA approved for H-1 application (incidental food contact) and complies fully with the requirements of FDA 21 CFR 128.3570. Hydra-Oil food grade oil is offered in 20-wt, 30-wt and 40-wt.

## Hydra-Oil EPDM Compatible

Hydra-Oil EPDM compatible is formulated for EPDM diaphragms and must be used in all pumps containing EPDM diaphragms. It is a unique blend of glycols that provide excellent lubricity, high viscosity index, and low solubility with many hydrocarbons. Hydra-Oil EPDM compatible oil is offered in 20-wt, 30-wt and 40-wt.

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## How to Order

Use the charts below to select the best oil to meet your application requirements. Consult your Hydra-Cell Pump Installation/Service Manual for oil change interval specifications.

### To order Hydra-Oil separately

Hydra-Oil is available in quart and 2-1/2 gallon packages. To order: use the part numbers listed in the chart below.

### To order as part of pump selection

Use the appropriate oil letter code which corresponds to the 12th digit of the pump model ordering number (refer to the How to Order page in the appropriate pump product section).

NOTE:

- All pumps are shipped with oil reservoir filled with selected oil
- Pumps equipped with EPDM diaphragms must use EPDM compatible oil

## Oil Recommendation

Pump Model	F-20 <sup>1</sup>	M-03 <sup>2</sup>	D-04	D-10	D-10-SD	D-12	D-15/17	H-25	H-25-SD	D-35	D-35-SD
<b>Oil Reservoir Capacity</b>											
US quart	0.125	1.00	1.10	1.10	1.10	1.5	2.2	2.5	2.5	5.0	5.0
Liters	0.120	0.95	1.05	1.05	1.05	1.4	2.1	2.4	2.4	4.7	4.7
<b>Metallic Pump Head Material</b>											
<b>Standard Duty</b>	G	A	A	A	—	A	A	A	—	A	—
<b>Continuous Duty</b>	G	G	G	B	—	B	B	B	—	B	—
<b>Cold Temperature/Severe Duty</b>	G	G	G	G	—	G	G	G	—	G	—
<b>High Temperature/Severe Duty</b>	G	G	G	G	—	G	H	H	—	H	—
<b>Food Contact</b>	K	K	K	K, E	—	K, E	K, E	K, E	—	K, E	—
<b>EPDM Compatible</b>	J	J	J	J, C	—	J, C	J, C	J, C	—	C, D	—
<b>Plastic Pump Head Material</b>											
<b>Standard Duty</b>	G	A	—	A	A	—	—	A	A	—	A
<b>Continuous Duty</b>	G	G	—	B	B	—	—	B	B	—	B
<b>Cold Temperature/Severe Duty</b>	G	G	—	G	G	—	—	G	G	—	G
<b>High Temperature/Severe Duty</b>	G	G	—	H	G	—	—	G	G	—	G
<b>Food Contact</b>	K	K	—	K	K	—	—	K, E	K, E	—	K, E
<b>EPDM Compatible</b>	J	J	—	J	J	—	—	J, C	J, C	—	J, C

<sup>1</sup>Includes all F-20, F-21 and F-22 models

<sup>2</sup>Includes all D-03, M-03 and M-23 models

## Key to Oil Letter Codes

Code	Letter	Oil Description	Quart		2-1/2 Gallon	
			Single	6-pack	Single	Twin-Pack
A		10W30 for standard duty	A01-114-3430	A01-114-3431	A01-114-3432	A01-114-3433
B		40-wt for continuous-duty	A01-114-3440	A01-114-3441	A01-114-3442	A01-114-3443
C		30-wt EPDM compatible oil	A01-114-3402	—	A01-114-3403	—
D		40-wt high-temp EPDM compatible oil	A01-114-3405	—	A01-114-3406	—
E		30-wt food-contact oil	A01-114-3402	—	A01-114-3403	—
F		40-wt high-temp food-contact oil	A01-114-3405	—	A01-114-3406	—
G		5W30 cold-temperature severe duty synthetic oil	A01-114-3415	—	A01-114-3420	—
H		15W50 high-temp severe-duty synthetic oil	A01-114-3416	—	A01-114-3421	—
J		20-wt EPDM compatible oil	A01-114-3407	—	A01-114-3408	—
K		20-wt food-contact oil	A01-114-3407	—	A01-114-3408	—