



TOOLKWIP PUMPS



BLUE WHITE | FLOJET | FLO-KWIP | JABSCO | LAFONTE | REMCO | RULE | SETHCO

2025 Pricelist

Updated September 2025

Pursuing pumping solutions that are . . . 'Simply Better'

TOOLKWIP PUMPS is pleased to bring you this Priced Catalogue of versatile, innovative and quality small pumps and related products for Industrial, Agricultural, Civil Construction, Contractor, Domestic and RV/Recreational applications.

RANGE & STOCK

We are committed to providing an extensive stock range of pumps at competitive prices, to meet a vast range of applications. We endeavour to hold virtually all pumps in this catalogue as stock to provide fast and responsive service. New products are constantly being evaluated and added to our range, so please feel free to contact us if you have any enquiries regarding a product or model which has not been included in our catalogue. Occasionally pump models may also be superseded by new or similar models.

Note: C-tick (R certified) models with RFI filter are not all available yet, but will progressively be added as available. See note on page 4.

SPARE PARTS, SALES SUPPORT, SERVICE & REPAIRS

Our products are supported by Spare Parts stock, Sales/Marketing brochures, experienced technical advice, and Service repair capabilities.

OTHER PRODUCTS IN OUR WHOLESALE RANGE - see also page 33

- Drum Pumps - Electric & Air
- Submersible Pumps
- Hydraulic Submersibles
- Magnetic Drive Pumps - Including Self-Priming
- Air Operated Diaphragm Pumps
- Filter Systems
- Diesel Powered Auto Prime Pumpsets
- Hoses, Camlocks & Accessories

From the team at **TOOLKWIP PUMPS**



A Met-Pro Fluid Handling Technologies Company



BUILT FOR WORK[®]



Prices and specifications are subject to change without notice.

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ELECTRIC DIAPHRAGM PUMPS - FLOJET, JABSCO & REMCO

Many pumps in this catalogue are of the Electric Diaphragm type, mostly FLOJET brand, with some additional selected JABSCO and other models. Electric Diaphragm pumps are self priming, have run-dry capability, and are of a 'seal-less' design that eliminates dynamic/rotary pump shaft seal, reducing cost and improving serviceability. 'Duplex' models mean the pump has 2 diaphragm chambers, Triplex has 3, Quad has 4, and 5-Chamber has 5. All FLOJET/JABSCO Quad, 5-Chamber and some Triplex and Duplex Pumps have Snap-in, quick-change port fittings. Quad and Triplex share the same size Quad fittings where they have Snap-in type. LFP and G80 have a smaller size Snap-in than Quad ports, 5-Chamber have larger Snap-in fittings than Quad models.

Amp ratings as shown are normally Run Amps; fuse or circuit breaker should normally be rated slightly higher than Run Amps.

RFI filter, as stated on some models, is an electrical current filter, NOT a fluid filter. Recommended to prevent electrical interference, for all applications.

AUTOMATIC ON-DEMAND OPERATION

Automatic On-Demand operation is a feature of both Air Operated Diaphragm Pumps, and Electric Diaphragm Pumps when fitted with Pressure Switch (e.g. 'SW60' in PSI column means the pump is fitted with a Pressure Switch which switches the pump off at 60 psi). These models automatically switch off when fluid pressure in the discharge line reaches air supply pressure, or pressure switch pressure, and 'on' again when discharge line pressure drops.

BYPASS OPERATION

Some models are labelled 'BP' in psi column, designating this pump has built-in By-Pass feature. Approximately at pressure shown, pump will commence to by-pass some flow. Some models have full By-Pass, whereas some partial By-Pass and Pressure Switch as well to shut pump off when flow is too low.

COMPONENTS & MATERIALS

Materials of wetted pump components determine each pump's compatibility with different fluids, subject to consideration of concentration, temperature, viscosity, particle size and any hazards (see Warning on page 5). For most pumps listed, wetted materials are shown in the description column, in abbreviated formats, as listed in Abbreviation Key on page 5. For any pump/product which does not show wetted materials of construction, it should be used for clean water only. Generally, Santoprene and EPDM are preferred for potable water applications and also suitable for many Agricultural and other chemicals including Carpet Cleaning machines. Viton suits a broader range of Agricultural chemicals and Geolast/Buna is better with diesel fuel and oil based products. In all cases, fluids should be checked for compatibility against FLOJET Chemical Compatibility Guide, which is a guide only and not Guaranteed. Immersion tests are recommended for additional guidance before applying a pump with any particular fluid. It is ultimately the customer's responsibility to ensure pump is suitable for the specific application.

Conditions of Sale

All sales are subject to Toolkwip Pumps Pty Ltd Conditions of Sale. Available upon request.

ABBREVIATION KEY

P	Polypropylene	S	Santoprene®
N	Nylon	B	Buna®
A	Acetal	V	Viton®
HB	Hose Barb Ports	E	EPDM
Quad	Snap-in quick-fit quad ports	M	Minion Polyamide
H	Hastelloy	G	Geolast®
SS	316 Stainless Steel	K	Kalrez®

Pump materials shown are in order of Pump Body/Diaphragm/Check Valves/Springs.
Celcon is a form of Acetal. TPV on Data Sheets is referring to Santoprene.

SAFETY NOTES:

WARNING!

DO NOT USE FLOJET PUMPS TO PUMP PETROL OR FLAMMABLE FLUIDS WITH FLASH POINTS BELOW 38°C OR WHERE FLAMMABLE VAPOURS ARE PRESENT. THE PUMPING OF STRONG HAZARDOUS CHEMICALS AND ACIDS IS NOT RECOMMENDED FOR FLOJET PUMPS.

(Except model G70C or G70K Air Operated pump for limited use on flammable solvents (not petrol or gasoline) , see page 32.)

230 VOLT AC FLOJET ELECTRIC DIAPHRAGM PUMPS - SEE SAFETY WARNING PAGES 24 & 25

Most Flojet 230VAC diaphragm pumps are designed to be built in to an enclosure or for internal mounting in equipment, not as stand-alone pumps, or as domestic appliances. Refer 230 VAC Diaphragm Pumps on page 24, and Safety Warning page 25. See also new 230V models page 24, and Transformers on Page 27.

MARINE APPLICATIONS

We recommend for pumps on boats and other marine applications, that only pumps stated to be suitable for Marine, or stated 'ISO 8846' and/or 'ISO 8849' should be used. Whilst Toolkwip Pumps is not a specialist Marine wholesaler, some models in our range do carry the marine rating and are ideal for boats etc.

MARINE RATED MODELS

	Page
12 Volt:	
Quiet Quad 4405-143 or Q301J-1155-3A	12
Quad Q401J-1185-3A	13
Hot Shot Washdown Kit	15
SS Centrifugal 'Cyclone' 50840-2012	16
50860-2012	16
Flexible Impeller Pumps	16
Rule /In-line Submersibles	17
Rule Submersibles	18
24 Volt:	
Quiet Quad 4405-343	19
Hot Shot Washdown Kit	21
SS Centrifugal 'Cyclone'	21
Flexible Impeller Pumps	22
Submersible RULE 16A	22-23

Relevant ratings:

ISO 8846 marine (ignition protected)
ISO 8849 marine (bilge pump standard)

FAN COOLED MODELS:

Additional cooling for hotter climates: Models 2100-732, 2130-132 & 4300-561 are fan-cooled.

DIESEL PUMPS

Use only pumps with Buna (Nitrile) or Viton elastomers.

	Page
12 Volt:	
Duplex II Series D3131-B5011	8
D3131-V5011	8
Quad Q451-168S-2P	13
SS Centrifugal 'Cyclone'	16
iL Submersibles, some models	13
24 Volt:	
Duplex II Series D3231-B5011	19
Quad 300-541 & Q452F-168S-2P	20
SS Centrifugal 'Cyclone'	21
iL Submersibles	22

FREIGHT/PACKING:

Minimum charges: Pumps \$30, Parts & Port Fittings \$25. If goods are sent on customers freight account a \$10 packing surcharge applies for orders under \$50 + GST.



FLAMMABLES WARNING

NO PUMP MENTIONED IN THIS CATALOGUE SHOULD BE USED FOR GASOLINE OR ANY FLUID WITH A FLASH POINT BELOW 100°F (38°C). (ONLY EXCEPTION - G70 ON PAGE 32.)

There is no obligation to comply with the recommendations. Prices and specifications are subject to change without notice.

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AGRICULTURE

- Boom spray
- Chemical spray
- Fertigation



ROAD & CIVIL CONSTRUCTION

- Water spray for dust control
- Road roller
- Washdown kits
- Diesel transfer
- Oil changer system
- Trash Pumps
- Submersible Pumps



CAR WASH

- Wash down
- Foam system
- Pressure water



CHEMICAL FILTRATION

- Filtering
- Recirculating



DOMESTIC CLEANING

- Carpet cleaning
- Curtain cleaning



- Booster pumps
- Cabins
- Small dwellings
- Caravans



CHEMICAL TRANSFER

- Bulk chemicals
- Diesel
- Field fuelling



MARINE

- Washdown kits
- Water pressure systems
- Submersibles

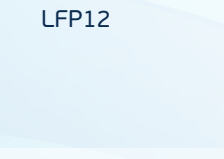


RECREATIONAL VEHICLES

- Water supply
- Washdown

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MODEL	LPM	PSI	DESCRIPTION	PRICE
VARIABLE SPEED WATER PRESSURE SYSTEM - Runs dry without damage. - Energy efficient. - Self priming to 4m suction lift. Smooth, Quiet.				
CODE: F				
(R4425-506)	18.9		Deleted model	
42755-0092	19	Operating 40psi SW 60	Variable speed Pump/Water Pressure System. Deleted Model - use 55AQUAJET-ARV below, except for marine applications.	
(41755-0092, R4400-503, R4400-504, R4515-743, R4525-743) - Use AQUAJET below)				
55AQUAJET-ARV	18	SW60	 REMCO Variable speed , low noise, Water Pressure System. Max 10Amps P/S/E - Reduced cycling. Suits quality RV applications: NSF rated, has Thermal protector on motor, & fuse. (Auto Reset) and low voltage shut off. Made in USA Quad ports x 1/2" MNPT. Recommended use with Inlet Strainer (Not included) For flows from 9-18 LPM Suits potable water (NSF Certified)	
Note: If using above pumps with 240V/12V Transformer, use TR12/200.				
LF SERIES New LFP design is replacing LF in some models, progressively. LFP design has interchangeable Snap-in Port fittings. See Page 39 for more port options.				
CODE: F				
 LF11	LF111-421	2.3	SW 40 BP55	Lower flow model, finned motor for max cooling, extended life motor. P/S/V/SS, 3/8" HB, 2.5 amps. C/w manual on/off switch, in-line fuse, suits Agricultural spray. Bypass. Most Agricultural chemicals
 RLF111-421	LF112-201	3.8	SW 35 N-BP	R certified with RFI filter - Awaiting Availability P/S/V/SS, 3/8" HB, 3.5 amps. C/w on/off switch and fuse. Finned motor and Intermittent Duty. No Bypass. Most Agricultural spray chemicals
 RLF112-201	LFP122-202 (LF122-202)	3.8	SW 35 N-BP	R certified with RFI filter. Awaiting Availability P/S/E/SS, 3/8" HB, 4 amps. Intermittent Duty. No Bypass. Water, some Agricultural chemicals
 LFP12	RLF122-202			R certified with RFI filter. Awaiting Availability

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12 VOLT DC

	MODEL	LPM	PSI	DESCRIPTION	PRICE
LF SERIES CONT'D					CODE: F
	LF122-401	3.8	SW 40 N-BP	P/S/V/SS , 3/8" HB, 3.5 amps. Intermittent Duty. No Bypass. Suits most Agricultural Chemicals - Weedicides etc In due course this model will be superseded by Model LFP 122201	
	RLF122-401			R Certified, with RFI filter - Awaiting availability	
	LFP122201	3.8	SW35	To replace LF122-401 in due course.	
	2240-1B1-10E	3.7	SW40	Remco Low Flow Economy Plus pump, P/S/S/SS, 3/8" (10mm) Hose Barbs, Intermittent duty, Max 2.6 Amps. Most Agricultural Spray Chemicals.	
	3311-1E1-82B	4.5	SW 60	Remco ProFlo 3-chamber Pump, Made in USA, P/S/V, , Quick Attach (Quad -style) ports, 2-pin connector. Max 4.3 Amps @ 10 psi, 5.5 Amps Max at 60 psi, Eg: Most Ag spray chemicals. Max temp 60°C	
FULL BYPASS MODELS					CODE: F
	LFP1X1-022	2.6	NSW BP55	P/S/E/SS , 5/16" JG push-in ports, 55 psi ByPass. (Suits 5/16" JG push-in tube) (Snap-in interchangeable LF port type) Water, Linemarking, some chemicals	
	3321-2E1-82A	4.5	BP 60	Remco ProFlo ByPass 3-chamber pump, Made in USA. See Page 12	
DUPLEX II SERIES					CODE: F
Flojet models beginning with D are the new Duplex II Series, designed to supersede the older 2000, 2100 and 2130 series with several improved features including (additional to Pressure Switch) Backflow Preventer and Built-In External Bypass. This Bypass enables the pump to run at lower flows before it switches off, reducing on/off cycling.					
	D3131-B5011	6.1	SW 60 BP	P/B/B , 3/8" threaded, 7 amps, 4.1 bar. Diesel transfer, Light oils	
	D3131-E5011	6.1	SW 60 BP	P/E/E , 3/8" threaded, 7 amps. Water, some chemicals	
	D3131-H5011	6.1	SW 60 BP	P/S/E , 3/8" threaded, 7 amps. Replaces 2100-132 Water, most Agricultural chemicals	
	D3131-V5011	6.1	SW 60 BP	P/V/V , 3/8" threaded, 7 amps. Many chemicals, some oils	
	D3135-E7011	7.7	SW 100 BP	N/E/E , 3/8" threaded, 9 amps. Higher pressure pump. Water, most Agricultural chemicals (See also 2130-132 & Remco 3923-9J2-82B)	
NOTE: RFI versions of the above Duplex II models to be added as they become available.					

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12 VOLT DC

	MODEL	LPM	PSI	DESCRIPTION	PRICE
STANDARD DUPLEX SERIES 2100/2130					CODE: F
	2100-122	8.3	SW 60 N-BP	P/V/V, 3/8" threaded, 7 amps. No Bypass. Most spray chemicals	
	2100-132			Obsolete - see D3131-H5011	
	2100-732	8	SW 60 N-BP	P/S/E, 3/8" threaded, 10 amps. C/w fan cooled motor, for hotter environment/climates. No Bypass. Water, Agricultural chemicals, Spraying	
	2100-734	8	N-SW N-BP	P/V/V, 3/8" threaded, 7 amps. C/w fan cooled motor, for hotter environment/climates. No Pressure Switch or Bypass. Most Agricultural chemicals	
	2100-848	8	N-SW Max 60 N-BP	Open Flow Duplex pump. P/S/V, 3/8" threaded, 7 amps. No Pressure Switch or Bypass. Water, most Agricultural chemicals	
	2130-132	6.5	SW 95 N-BP	N/E/E, 1/4" threaded, 10 amps. Higher pressure pump. No Bypass. with fan cooled motor Water, most Agricultural chemicals (See also D3135-E7011 on page 8)	
NOTE: R certified versions with RFI filter to be added as they become available.					
REMCO 3-CHAMBER					CODE: F
	3313-1E1-82B	8	SW 60	Remco ProFlo Pump, Made in USA, P/S/V , 3-chamber, QA ports, 2-pin connector. Max 4 Amps @ 10 psi, 7.5 Amps Max at 60 psi. Eg: Ag spray . Including fittings:10mm straight or 10mm elbow. To be Replaced by 90-3313-1E1-82B when existing stock sold	
	90-3313-1E1-82B	8	SW 60	As 3313-1E1-82B	
	3323-1E1-82B	8	SW 60	Remco ProFlo Pump, Made in USA, P/S/V , 3-chamber, 3/8" FNPT ports, 2-pin connector. Max 4 Amps @ 10 psi, 7.5 Amps Max at 60 psi. Eg: Ag spray . (No fittings) Model number change to 90-3323-1E1 when existing model No stock sold.	
	90-3323-1E1-82B	8	SW 60	As 3323-1E1-82B	
REMCO SMOOTHFLO HIGH PRESURE					CODE: F
	3923-9J2-82B	8.3	SW 120 Flo IQ	Remco SMOOTHFLO 3900 series 3-chamber pump, Premium model with Flo-IQ technology minimises switch cycling, Made in USA, P/S/V , 3/8" FNPT ports, 2-pin connector, 10A @100psi/3.8 lpm, Max approx 12 Amps @ 120 psi. Priming to 4m, Liquid temp to 60 deg C. Most Ag Spray chemicals	
	3923-9J1-82B				

Note: Above 2 model numbers are same pump. Continuing model is 3923-9J1-82B

These 12 Volt DC pumps can be used with a selected Transformer from our range on page 25, to enable use from a 240V/1ph/50Hz mains power supply.

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12 VOLT DC

MODEL	LPM	PSI	DESCRIPTION	PRICE
TRIPLEX SERIES				CODE: F
3501-505	5.2	SW 60 BP	Versatile, excellent value Triplex pump with Pressure Switch & Bypass. Intermittent Duty. P/S/V, 3/8" FNPT Threaded, 5 amps. Suits switch/lead kit accessory 91006-477A see Accessories page 38. Most Agricultural chemicals	
	3501-503	7.5	SW 60 BP	P/S/V, 3/8" FNPT, 8 amps. C/w leads with in-line connectors and On/Off switch. Suits most Agricultural chemicals - Weedicides Suits switch/lead kit Accessory 91006-477A see page 38.
	3501-506	7.6	SW 60 BP	Popular Triplex pump for Agriculture use etc. P/S/V, 3/8" FNPT Threaded, 8 amps. Intermittent Duty. (No on/off switch). Suits switch/lead kit accessory 91006-477A see Accessories page 38. Available individually boxed or bulk packed. Suits most spray chemicals
	3526-144A	11	SW-50 BP	Use R3526-144D Below
	3526-144B	11	SW-50 BP	Use R3526-144B as below.
	R3526-144A			Replaced by R3526-144D
	R3526-144D	11	SW50 BP	Automatic Water Pressure pump. P/S/E, 1/2" HB/Quad ports, 7.5 amps. Intermittent Duty. Built-in pulsation eliminator and Bypass. Colour box. C/W compact inlet strainer Suits potable water, Recreational water supply, Caravans. R certified with RFI filter.
	R3526-144B		SW50 BP	As above, bulk packed. No strainer included. Plain boxed, not colour box. Call office for price on box of 12 pumps.
	R3526-144E	11	SW50	As R3526-144A, except c/w 12mm push-in fluid port fittings, to suit JG & DM push-in tubing. C-tick approved (with RFI filter)
	3521-139A			Use R3521-139
	R3521-139	15.1	SW 60 BP	HighFlow Triplex, Agricultural Spray Pump P/S/V, 1/2" HB quad, 15amps With RFI. Suits most spray chemicals

REMCO POWER RV FRESHWATER SYSTEM

CODE: F

90-3214-1C4-82L	12.1	SW45	Remco 12V RV Water Pressure System. Professional quality. Made in the USA. Quiet. Thermal protection, P/S/E, quad snap-in ports. NSF certified - Freshwater. Max 9 Amps
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See other Remco Water Pressure Systems on Page 13

NOTE: Additional RFI models may be progressively added, as available.

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12 VOLT DC

MODEL	LPM	PSI	DESCRIPTION	PRICE
TRIPLEX SERIES				CODE: F
3521-500	15.1	SW 60 BP	Discontinued. Use R3521-139. See previous model. R3521-139 runs cooler than 3521-500	
REMCO 5-CHAMBER				CODE: F
	5514-1E1-82B	12	SW 60 BP	Remco ProFlo 5500 series 5-chamber pump, Made in USA, P/S/V , Quick Attach Quad style ports, 2-pin connector, 5A @10psi, 9.5 Amps @ 60psi. Most Ag Spray chemicals . When current stock sold, use 90-3214-1E1-82B
	90-3214-1E1-82B	13	SW 60	Remco 3 Chamber Pump, 3200 series. Professional Grade. P/S/V , Quad-style QA ports, 12vdc, 11 Amps, 2-pin connector
	5516-1E1-82B	15.1	SW 60 BP	Remco ProFlo 5500 series 5-chamber pump, Made in USA, P/S/V , Quick Attach Quad style ports, 2-pin connector, 8.5A @10psi, 15 Amps Max. Most Ag Spray chemicals (To be updated - Model 90-5516-1E1-82B. Same pump)
	90-5516-1E1-82B	15.1	SW 60 BP	As 5516-1E1-82B See new high performance model on Page 14
REMCO SMOOTHFLO				CODE: F
	5916-9E1-63B	15.1	SW 60 Flo IQ/ BP	Remco SMOOTHFLO 5900 series 5-chamber pump, Premium model with Flo-IQ technology minimises switch cycling, Made in USA, P/S/V , Quick Attach Quad style ports, 2-pin connector, 8.5A @10psi, 15 Amps @ psi. Priming to 4m, Liquid temp to 60 deg C. Most Ag Spray chemicals . C/w 1x12mm straight and 1x12mm elbow barb.
HIGH PRESSURE TRIPLEX				CODE: F
	R3811-133	5.3	SW 150 BP	High Pressure 150psi, Triplex pump. N/S/V, 3/8" threaded, 9 amps. With Pressure Switch and Bypass. Water, most Agricultural chemicals, Beverages, Reverse Osmosis R certified with RFI filter. (See also 120 psi model 3923-9J2-82B on page 9)
	03811-133			Use R3811-133 Above
BYPASS PUMPS - FULL BYPASS/NO PRESSURE SWITCH				CODE: F
	3B01-136	7.6	BP 50 No SW	Discontinued. Use other By Pass models following.
	3B01-142	5.7	BP 50 No SW	Triplex ByPass pump. P/S/E, 3/8" FNPT threaded, max 52 amps. Suits water, some line marking paint, (non Flammable)

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MODEL	LPM	PSI	DESCRIPTION	PRICE
BYPASS PUMPS - FULL BYPASS/NO PRESSURE SWITCH CONT'D				CODE: F
 3B01-535	5.3	N-SW BP 35	Discontinued	
 3321-2E1-82A	4.5	N-SW BP	Remco ProFlo ByPass 3-chamber pump, Made in USA. P/S/V , 3/8" FNPT ports. Max 4.3 Amps @ 10 psi, 5.5 Amps Max at 60 psi. Eg: Linemarking, Ag spray . <u>When stock sold, use 3321-2E1-82B</u>	
3321-2E1-82B	4.5	N-SW BP	As above, plus with 2-pin wire connectors	
 3313-2E1-82B	8.3	N-SW BP	Remco ProFlo ByPass 3-chamber pump, Made in USA. P/S/V , Quick Attach (Quad-style) ports. Max 4.5 Amps @ 10 psi, 7.5 Amps Max at 60 psi. Eg: Linemarking, Ag spray	
HEAVY DUTY BYPASS PUMPS - FOR ROAD ROLLER SPRAYING				CODE: F
 R3B21-502	4.7 @30 ps	N-SW BP 50	N/S/V, 1/2" HB, quad, 5 amps. Self priming up to 3.5m, continuous duty. No Pressure Switch.	
R3B21-500	8.7 @30 ps	N-SW BP 50	N/S/V, 1/2" HB, quad, 11.5 amps. Self priming up to 3.5m, continuous duty. No Pressure Switch.	
See page 14 for higher flow Bypass pumps.				
QUIET QUAD SERIES				CODE: F
R4405-143	12.5	SW 35 BP	Quiet Quad Pump with Marine Ignition protection. P/S/E, 1/2" HB and QEST threaded quad ports. 7 amps. Doesn't require accumulator tank. With internal Bypass. R certified with RFI Filter Water, Marine , Solar, Marine cert. ISO 8846 Alternative new model - use Q301J-1155-3A	
 4406-143	12.5	SW 35 BP	Quiet Quad Pump for RV and other uses. P/S/E, 1/2" HB and qest threaded quad ports. 7 amps, with internal Bypass. (Not for marine – see 4405-143). Water, Caravan, Solar Do not use with Accumulator tank Alternative new model Q301V-1175-3A	
 Q301V-117S-3A	11	SW50 BP	Flojet RV Freshwater Pump, P/S/E. Pressure switch & internal Bypass for reduced cycling. Includes compact inlet strainer. Quad Snap-In ports: 1 x 1/2" Straight HB, 1x1/2" Elbow HB, 2x1/2" Straight threaded. Max.8 Amps @50psi, CE/RCM certified Water Supply , Recreational Vehicles etc	
Q301J- 115S-3A	11.3	SW40 BP	Jabsco Marine Freshwater Pressure System. P/S/E , sealed pressure switch & internal Bypass for smoother flow & reduced cycling. Includes compact inlet strainer. 2 x 1/2" (13mm) straight snap-in Quad ports for freshwater. Marine ISO 8846. 8 amps @40psi. CE/RCM certified	

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12 VOLT DC

MODEL	LPM	PSI	DESCRIPTION	PRICE
REMCO POWER RV REBEL SERIES		NSF CERTIFIED, PREMIUM WATER SYS-		CODE: F
54REBEL-JRV	14.5	SW 60 FLO IQ/ BP	Remco Professional Grade Power RV, <u>Quiet</u> Water Pressure Pump/System, Made in USA, NSF and CSA certified, with Flo IQ to minimise cycling, P/S/E , QuickAttach ports, Amps 8.5 @ 10 psi, 13.5 @ 60 psi. Priming to 4m suction lift, Outlet Check valve prevents back flow. Suits Potable water , RV & Coach, Solar power Drinking Water Supply	
55REBEL-JRV	19	SW 60 FLO IQ/ BP	Remco Professional Grade Power RV, <u>Quiet</u> Water Pressure Pump/System, Made in USA, NSF and CSA certified, with Flo IQ to minimise cycling, P/S/E , QuickAttach ports, Amps 9.5 @ 10 psi, 18 @ 60 psi. Priming to 4m suction lift, Outlet Check valve prevents back flow. Suits Potable water , RV & Coach, Solar power Drinking Water Supply	
FLOJET & JABSCO QUAD SERIES				CODE: F
4300-142	14	SW 45 N-BP	P/S/E, 1/2" quad, 9 amps. No Bypass. Suits potable water	
31620-0092	16.3	SW 40	Replaced by <u>Q401J-118S-3A</u> see below.	
Q401J-118S-3A	15.1	SW 60	Jabco Freshwater/Marine Pressure system, P/S/E, c/w compact inlet strainer, internal Bypass & sealed Pressure Switch. 2 x 1/2 Quad HP port, Marine protection ISO8846, max 11 amps. CE/RCM Certified.	
Q451F-118S-2P	17	SW 60 BP	Flojet 12v Freshwater Pump/ Water Pressure System, P/S/E, Heavy duty motor, Quad snap-in ports 3/4" straight, Max 14 Amps, Fluid temp 0 - 60 deg C. CE/RCM cert. Suits water , some ag chemicals. Replaces R4300-143 and 4300-143	
Q451F-168S-2P	17	SW 60 BP	Flojet 12v Versijet Industrial Pump/ Pressure System, P/S/V, Heavy duty motor, CE/RCM, Quad snap-in ports 3/4" straight, Max 14 Amps, Fluid temp 0 - 60 deg C. CE/RCM cert. Suits most Agricultural chemicals (eg weedicides.) and Diesel . Replaces 4300-504, 4300-506, 4300-561	
R4300-143	17	SW 45 N-BP	Popular High Flow model Water Pressure System P/S/E, 3/4" HB Quad Ports, 13 amps. No Bypass. With RFI Filter (No Fan). Suits potable water . <u>If stock sold out use Q451F-118S-2P</u>	
4300-504	18.5	SW 45 N-BP	P/S/V, 3/4" HB, quad, 13 amps. (New version, no fan, longer motor) longer life Intermittent Duty at 30 psi, continuous at 15 psi. No Bypass. (No fan) Suits most Agricultural chemicals - Weedicides When stock sold out, use Q451F-168S-2P	
4300-506	18.5	SW 45 N-BP	P/G/B, 3/4" HB quad, 13 amps. New longer motor, no fan, longer life. No Bypass. <u>When stock sold, use Q451-168S-2P. Suits Diesel transfer</u>	

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12 VOLT DC

	MODEL	LPM	PSI	DESCRIPTION	PRICE
FLOJET & JABSCO QUAD SERIES CON'T					CODE: F
	4300-561	18.5	SW45 N-BP	P/S/V, 3/4" HB quad, 13 amps. Superseded by new model Q451F-168S-2P - (See Page 13)	
QUAD SERIES - MODELS WITHOUT PRESSURE SWITCH OR BYPASS					CODE: F
	4100-505	14	N-SW N-BP	P/S/V, 1/2" quad, 10 amps. Max. 45 psi. C/w longer motor for extra cooling (instead of fan cooled). No Pressure Switch or Bypass. Suits most Agricultural spray chemicals	
	R4100-505			R certified with RFI filter.	
	4100-143	17	N-SW N-BP	P/S/E, 3/4" HB quad, 10 amps. Max. 45 psi. C/w longer motor for extra cooling. No Pressure Switch or Bypass. Water, most Agricultural chemicals, Recirculation	
	R4100-143			R certified with RFI filter.	
VERSI-JET HIGH PERFORMANCE 5-CHAMBER SERIES					CODE: F
- New improved Versi-Jet series, Heavy Duty and efficient design, up to 22.7 Lpm Max. Flow and 70psi Max Pressure. - Heavier duty brushes extend operating life by up to 50%. - Self priming up to 3m (wetted). - Designed for reliability. See also Hot Shot Kits below					
	R8500-134	18.9	SW 70 BP	Versi-Jet 5-Chamber pump. N/S/V , for broad chemical compatibility. 3/4" HB Snap-fit 5-Chamber ports, Max. 15 amps. R certified with RFI Filter Most Agricultural chemicals, Spraying, Misting	
	R8600-134	22.7	SW 70 BP	Versi-Jet 5-Chamber pump. N/S/V , for broader Agricultural chemical compatibility, 3/4" HB, Snap-fit 5-Chamber ports. Max. 18 amps. No Bypass. R certified with RFI filter. Most Agricultural chemicals, Spraying, Transfer	
	R8600-144	22.7	SW 70 BP	Versi-Jet 5 Chamber pump. N/S/E , 3/4" HB, max. 18 amps. No Bypass. R certified with RFI filter. Water transfer, some Agricultural Chemicals	
For R8600-144 - See also Hot Shot Kit P601J- 219N-3A below. Equivalent pump in kit form.					
 	90-5517-1E1-82B	20	SW60	Remco Professional grade, heavy duty 5500 series 5-chamber pump, Made in USA, P/S/V, Quick Attach Quad style ports, 2-pin connector, 18 Amps @ 60psi, Suits most Ag Spray chemicals, Road Sweepers and Rollers	
	P601J-218S-3A (replaces 82600-0092)	22.7	SW60 BP	Jabco 'Freshwater' & Marine Water Pressure System, P/S/E, Internal Bypass & sealed pressure switch. With compact inlet strainer, 2 x 3/4" straight HB Quad ports. Marine, Freshwater. Max 18 amps, Marine ISO8846	

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MODEL	MAX HEAD	DESCRIPTION	PRICE
JABSCO 'HOT SHOT' HIGH PERFORMANCE WASHDOWN KITS			CODE: F
These are a versatile, top quality, 70psi High Pressure Washdown Pump Kit, which includes the pump, spray nozzle gun and inlet strainer. Pump has sealed Pressure Switch, and heavier duty motor brushes for extended life. Marine Ignition Protection ISO8846. Colour boxed, for Showroom point-of-sale appeal. Very useful as multi-purpose Washdown pump kits for Off-Road Vehicles, Agriculture Equipment, Service Utilities, Boats, Horse wash-down etc. We do not stock the kits with hose coil, at this stage.			
Q401J-118N-3A	15.1	SW60 NBP	Jabsco HotShot Heavy Duty Washdown Pump Kit. P/S/E Max. Flow 15.1 Lpm, 60psi pressure switch. Includes Pump, Spray nozzle gun, Inlet Strainer, 2 x Quad/Straight 1/2" (13mm) ports, 2 x Quad/straight 3/4" Hose barb ports, and 1 x Quad/US Garden Hose port fitting. Max 11 amps, Marine ISO8846. CE/RCM certified.
82405-0092	15.1	SW60 NBP	Replaced by Q401J-118N-3A (Above)
P501J-119N-3A	18.9	SW70 NBP	Jabsco HotShot Heavy Duty Washdown Pump Kit, P/S/E wetted materials. Max. Flow 18.9 Lpm, 70psi pressure switch. Includes Pump, Spray nozzle gun, Inlet Strainer, 2 x Straight 5-Chamber Snap-Fit/ 1/2" Hose barb ports, and 2 x 5-Chamber Snap-Fit 3/4" straight. Hose barb. 1 Garden hose threaded port. Max 16 amps. Marine ISO8846, Washdown . CE/RCM Certified
82505-0092	18.9	SW70 NBP	Replaced by P501J-119N-3A (Above)
P601J-219N-3A	22.7		P/S/E wetted materials. Max. Flow 22.7 Lpm, 70psi pressure switch. Includes Pump, Spray nozzle gun, Inlet Strainer, 2 x Straight 5-Chamber Snap-Fit/ 3/4" Hose barb ports, and 1 x 5-Chamber Snap-Fit Garden Hose threaded barb port. Max 19 Amps, Marine ISO 8846 Washdown. CE/RCM Certified
82605-0092	22.7	SW70	Replaced by P601J-219N-3A (Above)
REMCO PROFLO HEAVY DUTY DIAPHRAGM PUMPS - HIGH FLOW & PRESSURE UP TO 26.5LPM, 100PSI, 5-CHAMBER, MAX 60°, SELF-PRIMING TO 4M, SEALED MOTOR			CODE: F
- Made in USA			
5538-2E6-94A	26.5	BP 60 N-SW	New High Performance, Heavy Duty ByPass Diaphragm Pump, 5-Chamber. N/S/V, 1/2" FNPT ports, Max 25 amps. Suits heavy duty Agricultural Spraying (most Agricultural chemicals), Street Sweeping machine. <u>When stock sold, to be replaced by 5538-2E1-94A</u>
5538-2E1-94A			Same specifications as above
5518-1E5-94A	26.5	SW60	High Performance heavy duty diaphragm pump, On-demand, 5-chamber. N/S/S, QA ports, 1 straight and 1 Elbow fittings; self-priming to 2.4m, Max 19 Amps. Suits Water, most Ag spray chemicals, High Flow transfer, Washdown . <u>To be discontinued when current stock sold. See model 90-5518-1E1-94A below</u>
90-5518-1E1-94A	26.5	SW60	High Performance heavy duty diaphragm pump, On-demand, 5-chamber. N/S/V, QA ports, 1 straight and 1 Elbow fittings; self-priming to 2.4m, Max 19 Amps. Suits Water, most Ag spray chemicals, High Flow transfer, Washdown

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MODEL	MAX HEAD	DESCRIPTION	PRICE
REMCO PROFLO HEAVY DUTY DIAPHRAGM PUMPS CON'T			CODE: F
 5538-111-94A	26.5	SW 100 New High Performance, Heavy Duty Diaphragm Pump, 5-Chamber.N/S/V, 1/2" FNPT ports, Max 25 amps. Suits heavy duty Agricultural Spraying (most Agricultural chemicals), Bulk Transfer, Washdown, Road Construction machines	
HIGH FLOW SS CENTRIFUGAL 'CYCLONE' PUMP SERIES			CODE: F
 50840-2012	120	6 m (8.7 psi) Stainless Steel Centrifugal Pump, Open impeller and casing, with mechanical seal in carbon/ceramic and Butyl elastomers. 3/4" FBSP threaded, 9 amps. Up to 50°C - Continuous duty. (No Pressure Switch or Bypass). (Not Self-priming) R certified with RFI filter. Water, Diesel, some chemicals, Marine	
50860-2012	78	12.8 m (18.5 psi) Stainless Steel Centrifugal Pump, open impeller and casing, with mechanical seal in carbon/ceramic and Butyl elastomers. 3/4" FBSP threaded, 21 amps. Up to 50°C - Intermittent duty. Contact Distributor re continuous applications. (Can be run continuous if motor is well ventilated and guarded to prevent touching - due to heat with continuous running) (No Pressure Switch or Bypass). (Not Self-priming) R certified with RFI filter. Water, Diesel, Marine	
FLEXIBLE IMPELLER PUMPS			CODE: F
- Versatile, reliable multi-purpose pumps. - Self-priming, capable of a range of viscosities, small solids, entrained air. - Pulsation-free flow, 'Continuous duties'. (For DC motor models, run hours will affect motor life.)			
 23670-4003	15.5	25 m JUNIOR PUPPY Bronze/Nitrile, 3/4" HB and 3/8" FBSP, 13 amps. Bilge, Fresh/Sea water, Foaming Liquids, Oils to 500cps, Marine Ignition Protection ISO 8846 & ISO 8849	
 580-4003	35	6m WATER PUPPY 12v Flexible Impeller pump, Commercial Duty, High flow, continuous rated. 32 lpm @ 3m Head. Bronze / Nitrile. 25mm (1") HB and 1/2" FBSP combined ports. Max 13 Amps. Self priming up to 2.4m. Marine ratings ISO 8846 and ISO 8849. Suits Bilge and General purpose, light oils, etc.	
 23920-2423	37	6 m BRONZE UTILITY PUMP 'Run-Dry' to 20mins after primed. Bronze/Nitrile, 3/4" FBSP, 13 amps. Bilge, Fresh/Sea Water, General Purpose, Oils to 500cps, Marine Ignition Protection ISO 8846	
23920-2403		Now superseded by model 23920-2423 as above	
Note: For Diesel Fuel. Rotary Vane pumps are recommended in preference to Flexible Impeller pumps, as the diesel may have affect on Impeller life.			
MACERATOR KITS			CODE: F
 18550-000	49	N-SW M/h 7 m N-BP 12V Macerator kit, in carry case. Garden hose discharge, 16 amps. Pump as above, plus connects directly to RV waste outlet. Includes fresh water rinse capability. Remove on/off switch. Intermittent Duty. No Pressure Switch or Bypass. R certified with RFI filter. RV toilet waste systems, etc	

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12 VOLT DC

MODEL	TOOLKWIP REF	LPM	MAX HEAD	DESCRIPTION	PRICE
RULE SUBMERSIBLE / IN-LINE PUMPS					CODE: F
	iL200 (X-141)	12.66 (765 Lph)	7.6 m	3/8" Outlet Hose, 2.8 amps. Intermittent duty.** Ø 36mm diameter Fresh/Sea water to 60°C Marine ISO 8846	
	iL200P (X-107)	12.66 (765 Lph)	9.7 m	1/2" Outlet Hose, 4.5 amps. 'Continuous' duty up to 2hrs/day With battery clamps on lead Ø 38mm diameter Fresh/Sea water to 80°C, Diesel to 40°C Marine ISO 8846	
	iL280P (X-105)	18 (1080 Lph)	9.7 m	1/2" Outlet Hose, 4.5 amps. 'Continuous' duty up to 2hrs/day With battery clamps on lead Ø 38mm diameter Fresh/Sea water to 80°C, Diesel to 40°C Marine ISO 8846	
	iL500P (X-111)	32 (1892 Lph)	9.7 m	3/4" Outlet Hose, 6 amps. 'Continuous' duty up to 2hrs/day* Ø 38mm diameter Fresh/Sea water to 80°C, Diesel to 40°C Marine ISO 8846	
	iL280PK (Kit) (X-130)	18 (1080 Lph)	9.7 m	1/2" Outlet Hose, 4.5 amps. 'Continuous' duty up to 2hrs/day C/w Pump, 4m Layflat Delivery Hose, Nozzle and Battery Clips. Fresh/Sea water to 80°C, Diesel to 40°C Marine ISO 8846	
	iL500PK (Kit) (X-174)	32 (1892 Lph)	9.7 m	3/4" Outlet Hose, 6 amps. 9.7 metre head, 'Continuous' duty up to 2hrs/day. C/w Pump, 4m Layflat Delivery Hose, Nozzle and Battery Clips. Fresh/Sea water to 80°C, Diesel to 40°C Marine ISO 8846	

* Continuous Duty: E.g. up to approx. 2 hours per day. Longer run times shorten pump life.

** Intermittent duty: Maximim 20 mins run time, then 20 mins rest.

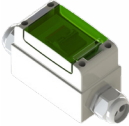
NOTE: Do not run these pumps dry.

Accessories for 12 Volt Submersible pumps - see page 33, including level switches.

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12 VOLT DC

MODEL	LPM	MAX	DESCRIPTION	PRICE
VERSATILE SUBMERSIBLE PUMPS - GENERAL PURPOSE				CODE: F
	RM2000A	120	5.5m	Rule-Mate Automatic Submersible Pump, 12v, commercial duty motor. All-in-one pump and switch, no float switch required, solid state water sensing - switches On at 70mm water level. Anti-fouling Impeller, snap-off strainer for ease of cleaning. With 2 outlet union ports, to suit 25mm ID hose, and 28mm ID discharge hose. Stainless steel shaft. Ability to run dry for short periods. 1 metre leads. 3rd wire allows for manual over-ride by panel. Thermal overload protection. Marine grade blocked wiring. 2kg. 12 Amps. CE and ISO 8849 Marine certification. Ignition protection.
HIGH PERFORMANCE PORTABLE UTILITY PUMP				
	EV2000-103 EV4000-103	120 216	6 m 7 m	Obsolete Model - Use RM 2000A above or EV4000. Evacuator 12 Volt Versatile Submersible pump. 2" Outlet, Approx. 20 amps. C/w 7.3m lead with switch and battery clamps. Some run dry capability. Rated continuous duty.*Weights 2.5kg + Cable Assembly. C tick, CE approved. Utilities pits drainage, Construction site Dewatering, Marine Ignition Protection. When EV4000 is discontinued by manufacturer, effective September 2025, use RULE 56D 4000 below.
	RULE 56D 4000	199	7.7m MAX HEAD	RULE 12 vdc Heavy Duty Submersible Pump, 252 LPM at 13.6v, 199 LPM at 12v, 50mm (2") hose discharge, long-life motor with ability to run dry for short periods, Easy-clean strainer, SS shaft and hardware, Marine-grade blocked wiring , rated at 12 Amps @ 12 volts, 14.5 Amps @13.6v. rec 15A fuse. Thermal cutoff, Ignition protected, CE and ISO 8848 Marine certification. See Wire harness 901-013 in Accessories section page 36, for extra wiring length.
* Continuous Duty: E.g. 1-2 hours run time. Not designed for 24/7 run time.				
FLO-KWIP CONTRACTOR SUBMERSIBLE PUMP - HEAVY DUTY				CODE: F
	SDC12-30	240	7 m	Heavy duty 12 Volt dewatering pump. Stainless Steel and Cast Iron construction, Hard-faced Mechanical Seal (Silicon Carbide), 10m leads and battery clamps. Pumps solids up to 7.5mm. 34 amps. 11Kgs.
	SDC12-SW			In-line switch to suit SDC12-30 12v-Optional: On/Off switch - fitted to SDC12-30 pump power cables.
12V Submersible pump accessories, see Accessories page 33.				
PORTAQUICK OIL CHANGER				CODE: F
	17800-2000	- Empty hot engine oil through the dipstick hole - Ideal for engines in inaccessible locations - Minimise spills and environmental damage - Off/On/Reversing switch; use pump to empty container - Bronze pump body, Nitrile Impeller 12V DC permanent-magnet motor 2.4m cable with battery clips - Teflon Dipstick probe 1m long x 6.3mm diameter 13L oil-catch container 1.2m Neoprene suction hose plus dipstick 7 Amps		
SAFETY WARNING: Do not use any of the pumps shown on this page for pumping petrol, gasoline or products with a flash point below 37°C.				

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MODEL	LPM	PSI	DESCRIPTION	PRICE
VARIABLE SPEED DRIVE - SENSOR VSD				CODE: F
	42755-0094	19	SW 40 VSD VFLO 5.0 Obscelete model use 55AQUAJET-ARV24	
	55AQUAJET-ARV24	18.9	60 REMCO Variable speed, low noise, Water Pressure System. Max 5 amps. Suits quality RV Applications: NSF rated,	
R4515-743 & R4525-743 Obsolete. Use 55 AQUAJET - ARV24 (Above)				
DUPLEX II SERIES				
Models beginning with D are the new Duplex II Series, designed to supersede the older 2000, 2100 and 2130 series with several improved features including (additional to Pressure Switch) Backflow Preventer and Built-in External Bypass. This Bypass enables the pump to run at lower flows before it switches off, reducing on/off cycling.				CODE: F
	D3231-B5011	6.1	SW 60 BP P/B/B, 3/8" female threaded, 4 amps. 4.1 Bar. External Bypass. Water, Diesel, Light oils	
	D3235-B7011AR	7.6	SW 100 P/B/B, 3/8" FNDT, 4 Amps - on indent only	
	D3235-E7011AR	7.6	SW 100 P/E/E, 3/8" female threaded, 5 amps. Water, some Agricultural chemicals C/w RFI Filter. If nil stock, use D3235-H7011AR	
	D3235-H7011AR	7.6	SW 100 P/S/E, 3/8" FNDT, 5 Amp, water, most Ag Chemicals, c/w/RFI Filter	
	D3235-H7011BR		Use D3235-H7011AR	
TRIPLEX SERIES				CODE: F
	R3626-344	11	SW 40 BP Versatile Water Pressure pump. P/S/E, 1/2" or 3/4" Quad, 2.5 amps. Intermittent duty. Colour box. R certified with RFI filter. Suits potable water	
HEAVY DUTY ROAD ROLLER SERIES - TRIPLEX				
	R3B21-503	4.7 @30psi	N-SW Max 50 BP Heavy Duty Roller Spray pump. N/S/V, 1/2" HB quad, 7.5 amps. Self priming up to 3.5 m, continuous duty. R certified with RFI filter. Water, Road Roller	
	R3B21-501	8.7 @30psi	N-SW Max 50 BP Heavy Duty Roller Spray pump. N/S/V, 1/2" HB quad, 4 amps. Self priming up to 3.5 m, continuous duty. R certified with RFI filter. Water, Road Roller	
QUIET QUAD SERIES				CODE: F
	4405-343	12.5	SW 35 BP Quiet Quad pump. P/S/E, 1/2" quad, max. 4 amps. Doesn't require an accumulator tank. Quiet, smooth flow. Built-in Bypass. Water or Solar, Marine Ignition Protection	
	R4405-343		R certified with RFI filter.	

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24 VOLT DC

MODEL	LPM	PSI	DESCRIPTION	PRICE
QUAD SERIES				CODE: F
4300-541	14	SW 45 N-BP	P/G/V, 3/4" HB Quad Ports. C/w Pressure Switch. No Bypass. Diesel, Water, some chemicals/detergents. When stock sold out use Q452F-1685-2P	
 Q452F-168S-2P	17	SW60 BP	Flojet 24v Versijet Industrial Pump/ Pressure System, P/S/V, Heavy duty motor, Quad snap-in / 3/4" straight ports, Max 8 Amps, Fluid temp 0 - 60 deg C. CE/ RCM cert. Suits Diesel & most AG chemicals, weedicides etc. Replaces 4300-541	
Q402J-118S-3A	15.1	SW60 BP	Jabco, Freshwater, PAR-Max. Water Pressure pump for up to 4 or more outlets. Marine rated P/S/E, 2 x 13mm (1/2") Straight HB/Quad. Quiet, heavy duty. With compact inlet strainer. Self Priming to 2.4m, TCO Thermal overload, with Auto restart. Fluid Temp 0-60 deg C. Potable water , some Agricultural chemicals (if compatible), Marine ifnition Protection ISO 8846. Max 6 amps @60psi. CE/RCM. Replaces 82400-0094 & 31620-0094	
31620-0094	15.1	SW60 BP	Use Q402J-1185-3A	
4300-343	18.5	SW 45 N-BP	Quad Diaphragm pump. Popular High Flow model for water supply etc. P/S/E, 3/4" HB quad, 6.5 amps Water, Potable water	
R4300-343			R certified with RFI filter- Awaiting availability	

REMCO POWER RV REBEL SERIES				CODE: F
55REBEL-JRV-24	19	SW 60 Flo IQ/ BP	Remco Professional Grade Power RV Water Pressure Pump/System, Made in USA, 5-chamber, with Flo IQ to minimise cycling, P/S/E , QuickAttach ports (as Quad), Amps 5 @ 10 psi, 8 @ 60 psi. Priming to 4m suction lift, Dry-run capable, Outlet Check valve prevents back flow. , NSF certified for Potable water , suits RV & Coach, Solar power, Drinking Water Supply <u>When current stock sold, use 55AQUAJET - ARV24 on previous page.</u>	

VERSI-JET HIGH PERFORMANCE 5-CHAMBER SERIES

- High capacity, highly reliable and versatile new series
- Comes with heavier duty brushes. Up to 50% longer pump life
- Self Priming up to 3m (wetted)
- R certified RFI filter on electrics

CODE: F

R8600-334	22.7	SW 70 BP	Versi Jet 5-Chamber pump, max. 9 amps. N/S/V, 3/4" HB / 5-Chamber Snap-fit ports. Most Agricultural chemicals (if non-flammable and compatible)	
R8600-344	22.7	SW 70 BP	Versi Jet 5-Chamber pump. N/S/E, 3/4" quad, max. 9 amps. Water , some chemicals (if non-flammable and compatible) To be deleted from range, when stock used. Use P602J-219N-3A	

See also Hot Shot Kits on page 20. (P602J-219N-3A is the same pump as R8600-344, but in kit form and no internal ByPass)

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MODEL	LPM	PSI	DESCRIPTION	PRICE
JABSCO 'HOT SHOT' HIGH PERFORMANCE WASHDOWN KITS These are a versatile, top quality, 70psi High Pressure Washdown Pump Kit, that includes the pump, spray nozzle gun and inlet strainer. Pump has sealed Pressure Switches, and heavier duty motor brushes for extended life. Marine Ignition protected ISO 8846. Colour boxed, for Showroom point-of-sale appeal. Very useful as multi-purpose Washdown pump kits for Off-Road Vehicles, Agriculture Equipment, Service Utilities, Boats, Horse wash-down etc. We do not stock the kits with hose coil, at this stage.				
CODE: F				
 82405-0094 (See also Q402J-118N-3A)	15.1	70 N-BP	Jabsco Hot Shot Washdown Kit. Max. Flow 15.1 Lpm, 70psi pressure switch. N/S/E, wetted materials, 7 amps. Includes Pump, Spray nozzle gun, Inlet Strainer, 2 x Straight Quad/ 3/4" Hose barb ports, 1 x Quad/ Elbow 3/4" Hose barb port, and 1 x Quad/Garden Hose port fitting. Marine Certification ISO 8846	
Q402J-118N-3A	15.1	SW 60	Jabsco Heavy Duty 24v washdown pump kit. P/S/E. Includes pump, inlet strainer, trigger nozzle gun, 2 x 1/2" straight HB/Quad snap-in ports, 2 x 3/4" straight HB, 1 x 3/4" garden thread port, max 6 amps. Marine ISO8846, Washdown. CE/RCM Use 82405-0094	
P602J-219N-3A	22.7	70 N-BP	Jabsco Hot Shot Washdown Kit. Max. Flow 22.7 Lpm, 70psi pressure switch. P/S/E wetted materials, max 9.5amps. Includes Pump, Trigger nozzle. Inlet Strainer, 2 x Straight 5-Chamber Snap-Fit/ 3/4" Hose barb ports, and 1 x 5-Chamber Snap-Fit 3/4" US Garden hose thread port. Marine Certification ISO 8846	
82605-0094			Replaced by P602J-219N-3A	
REMCO HIGH PRESSURE WASHDOWN PUMP				CODE: F
 5538-111-61A	26	SW 100	Remco 24v High Performance 5 -Chamber Diaphragm type pump/pressure system. 'On-demand' performance with pressure switch N/S/V, max 13 amps, 1/2 " FNPT ports. Pressure washdown. Road Construction vehicles. Available on indent only. Contact our Sales Department.	
HIGH FLOW SS CENTRIFUGAL 'CYCLONE' PUMP SERIES				CODE: F
 50840-2024	120	8.7psi (Max Head 6m)	3/4" FBSP threaded, 5 amps. C/w Stainless steel Open impeller and casing with carbon/ceramic/butyl mechanical seal. Up to 50°C - continuous duty. (No Pressure Switch or ByPass.) Water, Diesel, some chemicals, Marine ISO 8846 & ISO 8849	
 50860-2024	78	18.5psi (Max Head 12.5m)	3/4" FBSP threaded, 13 amps. C/w Stainless steel Open impeller and casing with carbon/ceramic/butyl mechanical seal. Up to 50°C - Intermittent duty. Contact Distributor re continuous applications. Can be run continuous if motor is well ventilated and guarded to prevent touching - due to heat with continuous running (No Pressure Switch or Bypass.) Water, Diesel, Marine ISO 8846 & ISO 8849	

*GST: +10% to all prices shown. **Note: For DC motors, run hours will effect motor life.** Recommended only. There is no obligation to comply with the recommendations. Prices and specifications are subject to change without notice. Subject to Toolkwip Pumps Pty Ltd Conditions of Sale.

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MODEL	TOOLKWIP REF	LPM	MAX HEAD	DESCRIPTION	PRICE
FLEXIBLE IMPELLER PUMPS - Versatile, reliable multi-purpose pumps. - Self-priming, capable of a range of viscosities, small solids, entrained air. - Pulsation-free flow, 'Continuous duties'. (For DC motor models, run hours will affect motor life.)					CODE: F
	23610-3103	45	12 m	MAXI PUPPY Bronze/Nitrile, 25mm HB and 1/2" FBSP 11 amps Bilge, Fresh/Sea water, Oils to 500cps, General Purpose, Marine ISO 8846 & ISO 8849	
	23620-4103	6 lpm @ 2m	8m	MINI PUPPY 24v Flexible Impeller pump, Bronze/Nitrile, compact, continuously rated, medium duty. Connections suit both 3/8" MBSP, and 3/4" (19mm) ID hose. ISO 8846 (Ignition Protection) and ISO 8849 (Bilge Pump standard) Marine certified. CE. self priming to 1.5m lift. Suits Oil change, Fresh/Sea water, Bilge and General purpose	
	23670-4103	15.5	25m	WATER PUPPY Bronze/Nitrile, 3/4" HB and 3/8" FBSP, 7amps. Bilge, Fresh/Sea water, Foaming liquids, Oils to 500cps, Marine Ignition Protection, ISO 8846 & ISO 8849	
	23680-4103	35	6m	24v Flexible Impeller pump, Commercial Duty, High flow, continuous rated. 32 lpm @ 3m Head. Bronze / Nitrile. 25mm (1") HB and 1/2" FBSP combined ports. Max 6 Amps. Self priming up to 2.4m. Marine ratings ISO 8846 and ISO 8849. Suits Bilge and General purpose, light oils, etc.	
RULE SUBMERSIBLE / IN-LINE PUMPS					CODE: F
	iL280P-24	(X-117)	18 (1080 Lph)	9.7 m	1/2" Outlet Hose, 2.3 amps. 'Continuous'. For up to 2 hrs/day Ø 38mm diameter Fresh/Sea water to 80°C, Diesel to 40°C, Marine ISO 8846
	iL500P-24	(X-112)	32 (1892 Lph)	9.7 m	3/4" Outlet Hose, 3 amps. 'Continuous'. Rated for up to 2 hrs/day Ø 38mm diameter Fresh/Sea water to 80°C, Diesel to 40°C, Marine ISO 8846
* Continuous Duty: E.g. up to approx. 2 hours per day. Longer run times shorten pump life. NOTE: Do not run these pumps dry.					

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MODEL	TOOLKWIP REF	LPM	MAX HEAD	DESCRIPTION	PRICE
OTHER SUBMERSIBLE PUMPS					CODE: F
	RULE 16A	195	7 m	Rule 16A Submersible Pump (3700GPH at 27.2V; 3108GPH/11,763LPH at 24V) Quite, smooth, corrosion-resistant. A/N/SS/Teflon-Nitrile seal. Temperature to max. 80°C. 1 1/2" HB discharge. 2.3Kg. 950mm leads. Max. 10 amps (at 27.2V), 6.9 Amps @ 24v. Sea Water/Fresh Water, Marine ISO 8849	
	SDC24-30	240	7 m	24VDC heavy duty battery operated dewatering pump. Stainless Steel and Cast Iron construction with hard-faced Mechanical Seal (Silicon Carbide), 10m leads and battery clamps. Pumps solids up to 7.5mm, 17 amps, 11Kg. Now, Normally a Stock Model.	
	Accessories: Lead/Switch kits and level switch to suit 24 Volt Submersible pumps - see page 36.				
	SDC24 - SW SWITCH			24v ON/Off switch, Optional Extra to suit SDC24-30. Fitted to cables Now a stock Model	

BARESHAFT DIAPHRAGM PUMP

MODEL	LPM	PSI	DESCRIPTION	PRICE
BARESHAFT DIAPHRAGM PUMP - NO MOTOR				CODE: F
	3121X34	11	N-SW Max 50 N-BP	FOR POWER DRILL OR PULLEY DRIVE Bareshaft pump without motor. Can be run by power/ cordless drill or pulley drive. P/S/V , 3/8" quad HB elbows. Max. recommended 1650 Rpm. No pressure switch or Bypass. R certified with RFI filter. Inks, multi-purpose 'handyman' pump
Bottled Water Systems - page 28 Oil Change System - page 18 Macerators, 12V - page 16				

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DIAPHRAGM PUMPS 230/240 VAC - INTRODUCTION

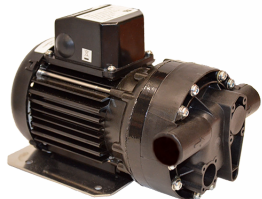
For Diaphragm Pumps to connect to 230/240 Volt AC Single Phase power.

For mains power supply, there are three alternatives:

SECTION 1: First section of pumps below can be used as stand-alone pumps. (One is 12V pump but comes with its own transformer for 240 Volt and socket built-in).

SECTION 2: Second section pages 25 & 26: These pumps must be built into secondary enclosures, or integral to a machine, such that operators cannot touch the pump whilst power is on. These **MUST NOT** be used as stand-alone pumps.

SECTION 3: Use 12 Volt or 24 Volt pump from range in this catalogue, with 240VAC/12VDC transformer. This gives enhanced safety, and enables use of broader range of pumps from this power supply. Transformers shown on page 27.

SECTION 1	MODEL	LPM	PSI	DESCRIPTION	PRICE
CODE: F					
	BLC4011-000A	3.8	SW40	P/S/E/SS, BEVJET LFP pump, 230VAC (12V pump with adaptor socket built into back of pump for Transformer lead), complete with 230VAC/12VDC Transformer to suit, with AU plug. Standard with Snap-in ports to suit 1/4" JG Push-in fittings. Viscosities to 240 centipoise. 2.5 amps at 25psi/1.7 Bar. Auto shut-off when supply bag is empty. NSF certification for food. Thermal protection. Illuminated On/Off switch. Water, Wine, non-pulp Juice, Alcohol <15%, Syrups	
Note: The above pumps have a built-in timer, and switches off after five minutes of continuous run time.					
CODE: A					
	AD550-A	9.5	SW40	230VAC Diaphragm pump with 40psi Pressure Switch. (Deleted from stock range. See below)	
	AD550-M	9.5	NSW NBP	230VAC Induction Motor Diaphragm pump without Pressure Switch. P/S/E. Max. 40psi, 40 Watts, 0.2 amps, 1/2" FNPT Ports. Self Priming, Quiet, Multi-Chamber technology for smoothness, Dry running capability without damage. For clean, non-abrasive fluids, fluid temperatures from 0-60°C. Water or Chemical transfer (subject to compatibility and non-flammable), Beverage dispensing, continuous Reverse Osmosis (Previously AD550-NSW)	

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230/240 VOLT AC

230VAC Diaphragm Pumps - For Enclosed Use Only

Note: Due to concerns as to safety in Application by customers, we have currently superseded models below to 12v pump with 240 VAC/12 VVDC Transformer. Transformer range on Page 27

SAFETY WARNING: This section of 230VAC Diaphragm Pumps are only for use integrally to Equipment (such as Carpet Cleaning machines), or in Secondary Enclosures. **They are not suitable as Stand-alone pumps for safety reasons, and must be installed such that Operators will not contact the pump whilst power is on.** (Wires are not all double-insulated. Pressure switches are not sealed, and therefore not suitable for wet areas or where moisture is present.)

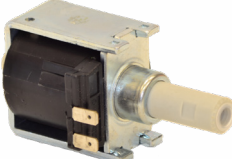
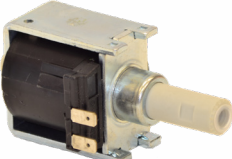
SECTION 2	MODEL	LPM	PSI	DESCRIPTION	PRICE
DUPLEX II SERIES					CODE: F
This series has a Bypass, Back Flow Preventer and Pressure Switch System which enables extended run time at lower flows, resulting in reduced on/off cycling.					
	D3732-E5011	6.1	SW 60 BP	P/E/E, 3/8" threaded, 0.4 amps. C/w 3 separate leads for power connection. Water, carpet cleaning machines Deleted - Use D3131-E5011 with Transformer TR12/100, See Pages 8 & 27	
	D3732-V5011	6.1	SW 60 BP	P/V/V, 3/8" threaded, 0.4 amps. C/w 3 separate leads for power connection. Water, some chemicals Deleted - Use D3131-V5011 with Transformer TR12/100. See Pages 8 & 27.	
	D3735-E7011	7.6	SW 100 BP	High Pressure Carpet Cleaning pump. N/E/E, 3/8" female threaded, 0.5 amps. C/w 3 separate leads for power connection. Water, some chemicals Deleted - Use D3135-E7011 with Transformer TR12/150. See Pages 8 & 27	
	D3735-E7011ARL	7.6	SW 100 BP	High Pressure Carpet Cleaning pump. N/E/E, 3/8" female threaded, 0.5 amps. C/w full RFI suppression, loose filter mounting and 3 separate leads for power connection. R certified with RFI filter. Water, carpet cleaning machines Deleted.	
	D3935-E7011		SW 100	Obselete - Discontinued model. Use 12V Pump D3135-E7011 and Transformer TR12/150. See page 8 & Page 27	
	D3935-H5011	7.6	SW 60 BP	Discontinued. Use 12v pump D3131-H5011 and transformer TR12/100 (see pages 8 & 27)	
STANDARD DUPLEX SERIES					CODE: F
	2100-232	6	SW 60 N-BP	P/S/E, 3/8" female threaded, 0.25 amps No Bypass. Carpet cleaning machines See also model D3732-E5011 above. Discontinued: Use D3131-E5011 with Transformer TR12/100. See Pages 8 & 27	

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230/240/110 VOLT AC

SECTION 2 Cont'd: SEE SAFETY WARNING PAGE 24 - For enclosed use only

MODEL	LPM	PSI	DESCRIPTION	PRICE
STANDARD DUPLEX SERIES CONT'D				CODE: F
 2130-232 R2130-232	6	SW 95 N-BP	N/E/E, 1/4" F threaded, 0.75 amps. Max Temp: 71°C. No Bypass. High pressure carpet cleaning machines See also model D3735E7011 on page 23 Deleted - Use D3135-E7011 with Transformer TR12/150. See Pages 8 & 27 R certified with RFI filter.	
TRIPLEX SERIES				CODE: F
 (3811-243 Replaced by: R3811-243)	5.3	SW 150 BP	High Pressure pump N/S/E, 3/8" threaded, 0.5 amps. UL, CE, NSF components. Corrosion resistant materials. Now with Bypass. Reverse osmosis, Water, carpet cleaning, High pressure applications with RFI. DELETED Deleted - Use R3811-133 with Transformer TR12/150. See Pages 11 & 27	
QUAD SERIES				CODE: F
 R4300-242 R4320-243	12.1 17.8	SW 30 N-BP SW 35	Versatile Quad pump. P/S/E, 1/2" HB, 0.75 amps. C/w 3 separate leads for power connection. No Bypass. Water, Coffee carts Deleted - Use 4300-142 with Transformer TR12/150. See Pages 13 & 27 R certified with RFI filter. DISCONTINUED Obsolete - DISCONTINUED Use 12V Pump Model 4300-143 with Transformer TR12/200	
OSCILLATING PUMPS				CODE: F
 ET508-244 PS2021	1.25 (75 Lph) 0.41 LPM (25 LPH)	N-SW Max 55 N-BP 19 Bar 276 Psi	Oscillating High Pressure, Self-Priming, Low Flow 230vac/50hz pump. M/V/SS, 1/8" FNPT threaded, Double Insulated, 53 Watts. Max Temp 71°C. Double insulated, run dry capability, UL, CSA,CE. No Pressure Switch or Bypass. R certified with RFI filter. Appliances, odour control. For use as internal/integral component only in Appliances or Equipment. More information on application. Imported to order. For use as internal/integral component only in Appliances or Equipment.	
110 VOLT MODEL				CODE: F
 ET508-224	1.5 (90 Lph)	N-SW Max 55 N-BP	Oscillating High Pressure, Self-Priming, Low Flow 110/120vac/60hz pump. M/V/SS, 1/8" FNPT threaded, Double Insulated, 53 Watts. Max Temp 71°C. 115 v. Run dry capability, UL, CSA,CE. No Pressure Switch or Bypass. R certified with RFI filter. Appliances, odour control For use as internal/integral component only in Appliances or Equipment.	

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240VAC Diaphragm Pumps - Using Transformer with 12/24 Volt Pumps

CODE: F

By selecting compatible Transformer from the range below, almost any 12V or 24V pump in this catalogue, Diaphragm or other type, can be used from a 240VAC Single Phase Mains power supply. This provides enhanced safety, and enables selection from a vast range of versatile pumps to be used.

All 12V Transformers below are usually in stock. Check with office for availability on 24V model Transformer selection. Select first by voltage of pump (12V or 24V), then by rated max. Amps as shown in the pump description. Amps rating of pump must not exceed rated Amps of Transformer.

PART NUMBER	VOLT	AMPS	WATTS	DETAILS	SUITS PUMP SERIES	PRICE
20465-020 (91006-702)	12	3	36	AC/DC Adaptor/Transformer. Input:100-240VAC, 50/60HZ, 1.5A Output: 12VDC, 3000MA. (3 Amps). Dry location use only (Not IP rated).	LF111-421 and Bottled Water Dispensers BW4000, BW5000 Water Dispensers	
20465-021 (91006-078)		1200mA		AC/DC Adaptor/Transformer. Input 100 - 240 vac, 50/60 Hz, 1.5A Output: 12 vdc, 1200mA (1.2 Amps). Dry location only; not IP rated. Suits BW5000 Bottled Water Dispensers		

See also LF/BEVJET pump complete with Transformer, page 23 & TR 12-60 below.

FLO-KWIP HEAVY DUTY TRANSFORMERS

Gain the benefits and features of the broad range of 12Volt and 24Volt pumps, from standard 240VAC single phase mains power supply.

- IP66 Weatherproof rating
- Suitable for indoor and exterior use (except plug*)
- Constant voltage
- Input voltage: 170V-265V / 1 phase / 50HZ / 60HZ
- Thermal overload protection
- Secondary side short circuit protection
- Output tolerance: 10%
- 1.0m moulded input lead with 3 pin plug
- Approval: A/11090EA
- 12 month warranty

Note: Check Voltage and Amp rating of specific pump model to select correct transformer model.*240v Plug must be protected from moisture & elements



PART NUMBER	VOLT	AMPS	WATTS	DIMENSIONS	SUITS PUMP SERIES	PRICE
12VDC models: 240VAC/12VDC Output voltage: 12VDC ± 0.5V						CODE: F
TR12/60		5.0	5-60	78 X 71 X 45mm	LF, Some Triplex	
TR12/100	12	8.3	5-100	210 X 71 X 46mm	LF, Duplex, some Triplex, Quiet Quad	
TR12/150	12	12.5	8-150	205 x 127 x 58mm	Triplex, VFlo, some Quad	
TR12/200	12	16.7	10-200	235 x 127 x 59mm	Quad	
TR12/250	12	20.8	250	235 x 126 x 59mm	Versijet, Hot Shot	
24VDC models: 240VAC/24VDC Output voltage: 24VDC ± 0.5V						CODE: F
TR24/100	24	4.2	5-100	210 X 71 X 46mm	LF, Duplex, some Triplex, Quiet Quad	
TR24/150	24	6.25	8-150	205 x 127 x 58mm	Triplex, VFlo, some Quad	
TR24/200	24	8.3	10-200	235 x 127 x 59mm	Quad	
TR24/250	24	10.4	250	235 x 126 x 59mm	Versijet, Hot Shot	

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MODEL	LPM	MAX HEAD	DESCRIPTION	PRICE
FLEXIBLE IMPELLER PUMPS - Versatile, reliable multi-purpose pumps. - Pulsation-free flow, 'Continuous duties'.				CODE: A

	53020-2013 To be replaced by: 53021-2013-230	17	10m	UTILITY 'RUN-DRY' PUMP 'Run-Dry' to 30 mins after primed Bronze / Nitrile, Carbon / Ceramic mechanical seal. 3/4" FBSP, 2.13 amps, 1450 Rpm, IP54, 180 Watt. Temperatures 10°C- 85°C Foaming Liquids, Water, Waste, Oil to 500cps, General Industrial circulation
	53040-2003 To be replaced by: 53041-2003-230	31	15m	UTILITY 'RUN-DRY' PUMP 'Run-Dry' to 30 mins after primed Bronze / Nitrile, Carbon / Ceramic mechanical seal. 1" FBSP, 4 amps, 1450 Rpm, IP55, 250 Watt. Temperatures 10°C-85°C Foaming Liquids, Water, Sump emptying, Oil to 500cps, General Industrial circulation

New model Nos will have thermal cut out on motors, improved for continuous running.
 For Diesel Fuel, we recommend Rotary Vane pumps in preference to Flexible Impeller pumps, as diesel can affect Impeller life.

BOTTLED WATER DISPENSING SYSTEM				CODE: F
	BW5002-000	4.1	SW 40 N-BP	5000 Series Bottled Water Dispensing System 230V. Contact Toolkwip for brochure. C/w illuminated on/off switch, auto shut-off. Drink dispensing, Water, Coffee machines
	BW5022-000	4.1	SW 40 N-BP	5000 Series Dual Inlet Bottled Water Dispensing System 230V. As above, with dual inlet, no Bypass.
	BW5002-020	6.0	SW 35	Bottled Water Booster System C/w accumulator, mounted on panel. Designed to support multiple coffee machines .

FLO-KWIP

SUBMERSIBLE PUMPS PRICELIST

Note: Specific discount codes apply for each model. Call us for Data Sheets or brochures for more information.

'PUDDLE SUCKER' LOW LEVEL SUBMERSIBLE PUMP - 240V/50Hz				CODE: E
	AL45 Supersedes AL40	205	11m	RUGGED, HIGH PERFORMANCE, LIGHT WEIGHT 'PUDDLE SUCKER'. PUMPS for Rental, Contractors, Builders, Concreters, Cellars, Foundations, Basements FLO-KWIP Puddle-Sucker submersible pump. Coated Stainless Steel outer case for low weight, Single phase/0.37kw, Pumps down to 3mm, Hytrel-coated semi-open impeller, Nitrile rubber volute liner, Double mech seal with Sil Carb primary, rubber base, 10metre cable, 2"/50mm MBSP threaded discharge. C/w lifting rope and 50mm Camlock. Weight 10.2 kg + cable
	AL75	320	17m	FLO-KWIP Puddle-Sucker submersible pump, as AL45 above, except higher performance, 0.75kw, 10m cable, 2"/50mm threaded discharge. C/w 50mm Camlock. Weight 14.5kg + cable

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FLO-KWIP SUBMERSIBLE PUMPS

	MODEL	LPM	MAX HEAD	DESCRIPTION	PRICE
'PUDDLE SUCKER' - STAINLESS STEEL / POLY, ULTRA-LIGHT					CODE: A
	SSL35A	150	7 m	Cased in stainless steel with Noryl impeller, this light-weight pump will drain down to 2mm. Suits Auto or Manual operation, with float switch located in holder to pump down to lowest level during manual operation. Sealed shaft, for corrosion resistance. Not suitable for pumping solids or strong chemicals. Complete with 10m lead. 4Kg plus cable. Made in Europe.	
STAINLESS STEEL SUBMERSIBLE PUMPS Versatile, Quality Multi-Purpose					CODE: E
	SSS-037-1A	220	9 m	Stainless steel robust drainage pump with stainless steel impeller. 240 Volt motor with 32mm outlet. Complete with mechanical seal, lip seal and 10m lead. Automatic with float switch. 5.7Kg. Withstands temperatures to 50°C (90°C for 3 minute intervals). Made in Europe.	
	SSS-037-1M	220	9 m	As above, Manual version, without Float Switch.	
	SSS-055-1A	220	11.5 m	Stainless steel robust drainage pump with stainless steel impeller. 240 Volt motor with 32mm outlet. Complete with mechanical seal, lip seal and 10m lead. Automatic with float switch. 5.7Kg. Withstands temperatures to 50°C (90°C for 3 minute intervals). Made in Europe.	
	SSV-037-1A	180	6.5 m	Stainless steel vortex pump with stainless steel impeller for drainage of dirty water containing suspended solids. Will pump solids up to 20mm. 240 Volt motor with 32mm outlet. Complete with mechanical seal (SiC) and 10m lead . Withstands temperatures to 50°C (90°C for 3 minute intervals). Made in Europe.	
	LC45A	250	11 m	NEW updated model. Light-weight, automatic model, with 10m lead, 2"50mm MBSP discharge, float switch and mechanical seal, 0.37kw stainless steel outer case and and PU impeller for abrasion resistance. 10.5Kg.C/w 50mm male camlock and lifting rope. Top discharge enables motor cooling on low water levels	
	LC45M	250	11 m	Light-weight, manual model, with 10m lead, 2" male camlock and mechanical seal. 10.5Kg.	
	LC40-A	230	10.8m	Superseded by LC45A above	
	LC40-M	230	10.8m	Superseded by LC45M above	
	LC160-M	470	19.5m	Light-weight, manual model, with 10m lead, 2" 50mm MBSP discharge, mechanical seal, 1.5kw single phase, stainless steel outer case and PU impeller for abrasion resistance. 25Kg. C/w 50mm male camlock. Top discharge enables motor cooling on low water levels. No float switch	
	LC160-A	470	19.5m	Auto with Float switch. Contact Toolkwip Pumps sales department	
				FLO-KWIP models in Duplex and 316 Stainless Steel also available to order	

For extra range, contact Toolkwip on our Tsurumi models

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	MODEL	LPM	MAX HEAD	DESCRIPTION	PRICE
DEWATERING PUMPS CONT'D					CODE: E
	LC50A	240	12 m	Powdercoated Aluminium Outer Casing Wear resistant Hytrel impeller Double Mechanical Seal in Oil Bath. 0.37kw Weight: 11.6kg. 2" FBSP discharge and 50mm hose barb. 10m cable.	
	LC50M	240	12 m	Powdercoated Aluminium Outer Casing Wear resistant Hytrel impeller, 10m cable Double Mechanical Seal in Oil Bath. 0.37kw Weight: 11.3kg. 2" FBSP discharge and hose barb.	
	LC75A	375	18 m	Powdercoated Aluminium Outer Casing Wear resistant Hytrel impeller, 10m cable Double Mechanical Seal in Oil Bath. 0.75kw Weight: 14.2kg. 2" FBSP discharge and hose barb	
	LC75M	375	18 m	Powdercoated Aluminium Outer Casing Wear resistant Hytrel impeller, 10m cable NBR Volute Liner Double Mechanical Seal in Oil Bath. 0.75kw Weight: 13.9kg. 2" FBSP discharge and hose barb	
	LC150A	658	21.5 m	Powdercoated Aluminium Outer Casing Wear resistant Hytrel impeller, 10m cable Double Mechanical Seal in Oil Bath. 1.5kw Weight: 18.4kg. 3" FBSP discharge and hose barb.	
	LC150M	658	21.5 m	Powdercoated Aluminium Outer Casing Wear resistant Hytrel impeller, 10m cable Double Mechanical Seal in Oil Bath. 1.5kw Weight: 18.1kg. 3"/75mm FBSP discharge and hose barb.	
	S75A	380	11.7 m	Stainless-steel Outer Casing Wear resistant Hytrel base and impeller NBR Volute Liner, 10m cable Air-vent built-in Handle solids up to 38mm diameter Double Mechanical Seal in Oil Bath, 0.75kw Weight: 14kg. 2" hose barb discharge.	
	DW3.7-80	1040	32.4 m	FLO-KWIP High Performance Dewatering submersible pump, AISI 304 Stainless Steel outer case and Strainer, Cast Iron inner pump casing, Top discharge and circumferential cooling for continuous duty, 3- phase/3.7kw, NiChrome steel impeller for abrasion and corrosion resistance, Double mech seal with Hard-faced Sil Carb primary, 10metre cable , 3"/80mm MBSP flanged discharge. Weight 48.2 kg + cable	

Weights shown do not include power cable. REKA 2000 level switch - see Accessories page.
12 & 24 Volt Submersible Pumps - see pages 16, 17 and 21.

Contact Toolkwip Pumps for brochures, Technical data and pricing on this Premium range of Contractor Submersible Pumps.

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FEATURES OF FLOJET AIR OPERATED DIAPHRAGM PUMPS

- Capable of higher viscosity fluids than most Electric Diaphragm pump models
- On demand operation: discharge head can be closed when pump is operating without harming the pump eg. for filling or transfer operations
- Variable flow and pressure by simple adjustment to the filter/pressure regulator on the compressed air supply
- No electricity on the pump which adds safety in wet areas and no motor corrosion will occur
- High discharge pressure/heads are possible; hence longer discharge pipelines are possible

CAUTION: Only model G70C202 is rated for some flammable liquids or hazardous environments. See page 32.

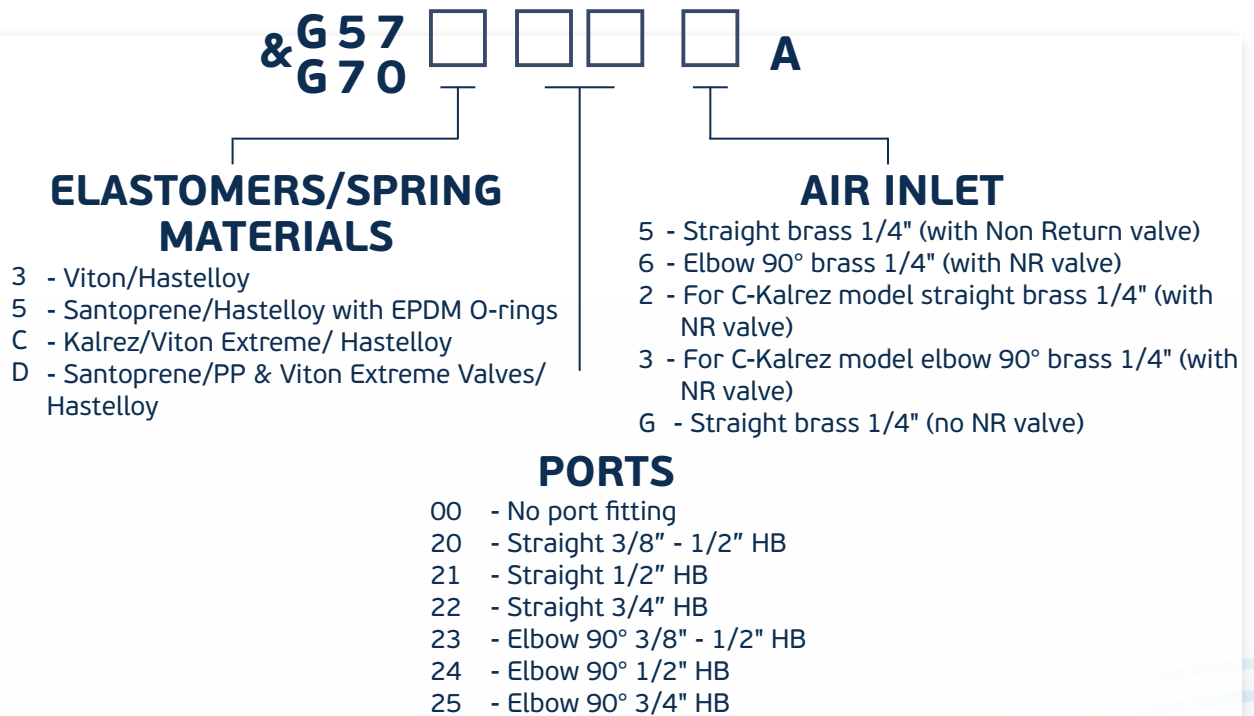
	MODEL	LPM	DESCRIPTION	PRICE
5100 SERIES				CODE: F
	N5100-020 (Was 05100-020)	7.3	A/V/V , 3/8" HB fluid, 1/4" barb air inlet, Acetal/Viton construction. Snap-in Ports (LFP Series) Parts washers (non-flammable liquids)	
	N5100-040 (Was 05100-040)	7.3	A/S/S , 3/8" HB fluid, 1/4" barb air inlet, Acetal/Santoprene construction. Snap-in Ports (LFP Series) Water based inks	
G57 SERIES - USE MATRIX BELOW				CODE: F
	G573-205		G57 Air operated diaphragm with P/V/V/H. Straight 3/8-1/2" Hose Barb fluid ports. Straight brass 1/4" air inlet.	
	G573-□ □ □		P/V/V/H see Matrix on next page for other versions.	
	G575205		G57 'Santoprene' Air operated Diaphragm Pump in P/S/E/H, straight 3/8-1/2" Hose Barb fluid ports. Straight brass 1/4" air inlet.	
	G575-□ □ □		P/S/S/H see Matrix on next page for other combinations.	
	G57520G or P56		As G575205A, Less Check Valve on Air Inlet	
	G57C-202	18.9	Standard G57C model with Kalrez diaphragms for broader chemical compatibility. P/K/V Ex/H , 3/8" - 1/2" (9.5mm-12.7mm) fluid.	
	G57D-202	18.9	Special teat spray model, for iodine. Santo diaphragms, check valves in PP a Viton Extreme P/S/V/EX H , 3/8" - 1/2" (10-13mm) Hose Barb	
	G257-301	37	Dual G57 Air Operated Diaphragm pumps. Manifoldd inlet and outlet for higher flow. P/V/V/H , 1/2" female threaded (NPT).	
	G257-501	37	Dual G57 Air Operated Diaphragm pumps. Manifoldd inlet and outlet for higher flow. P/S/S/H , 1/2" female threaded (NPT).	

NOTE: Special nett pricing for bulk quantities available on some of the above models.

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MODEL NUMBER MATRIX



	MODEL	LPM	DESCRIPTION	PRICE
G58 & G80 SERIES				CODE: F
	G80E022A (Supersedes G581022)	12	P/S/E , Air inlet - 1/4" HB. Fluid - 3/8" SS. Options: Air - JG push-in 1/4" 0.8. Fluid: 1/4" and 1/2" SS Straight - AISI 303 and 304. Self Priming to 1.83m. For Juice, Food products	
G70 SERIES				CODE: F
	G70C-202 (USE G70K202A)	18.9	112G c 11B Tx rated Air Operated Diaphragm Pumps for some Flammable Liquids/Hazardous Environments. P/K/V Ex/H , 3/8", 1/2" fluid. Air inlet 1/4". Some compatible, flammable liquids (Kerosene) and in zone 1 environments. NOT Halogenated solvents, Petrol, LPG or Gasoline.	
	G70K202A	18.9	As G70C-202 above, except in P/N/K/V Ex/H ie) Wetted Materials, Polypropylene, Nylon, Kalrez, Viton Extreme, Hastelloy	

Note: Refer to hazardous area consultant for your specific application. This is product information, not consultancy advice, and we take no liability for mis-application.

MARKS AND GENERAL INFORMATION

In compliance with the 94/9/CEE standards, the G70 pumps carry the following identification marks:

II 2G C IIB TX



Safety symbol to Din 40012

II 2G:

Surface equipment for use in areas with the presence of gases, vapours or mists in addition to clouds of combustible dust in the air that occur occasionally during normal operation (EN 1127-1 par. 6.3), both in external and internal areas (ZONE 1).

C:

Protection by constructional safety (EN 13463-5)

IIB:

Excluding the following products hydrogen, acetylene, carbon disulphide

TX:

Class of admitted temperatures. The processed fluid temperature value must fall within such class range and the user must comply with the instructions contained in the manual and with the current laws. Furthermore, the user must take into account the ignition point of the gases, vapours and mists in addition to clouds of combustible powder in the air existing in the area of use.

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MODEL	DESCRIPTION	PRICE
SYPHON PUMPS		CODE: F10
	SP 44L Syphon pump 200L. Polyethylene. Not for petrol, flammables or strong chemicals	

* CAUTION: None of the manual drum pumps are suitable for petrol, strong solvents, or other flammable liquids. Check compatability of fluid with wetted materials before selecting pump.

OTHER QUALITY PRODUCTS - CONTACT TOOLKWIP FOR INFORMATION & PRICING

DRUM PUMPS

Electric, air & manual



LAFONTE

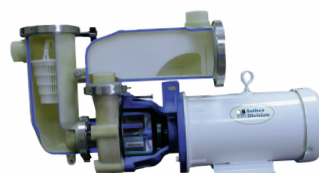
Chemical Pumps, mech sealed, & magnetic drive.
Made in Europe,



MAGNETIC DRIVE PUMPS

For safer transfer of chemicals, sea water etc.

SETHCO, LAFONTE & TOTTON
SELF-PRIMING MAG DRIVE END SUCTION MAG DRIVE



AIR OPERATED DIAPHRAGM PUMPS

FLOJET - see page 31 & 32

Also ARO & GRACO



FILTRATION SYSTEMS

All Sizes

For chemicals, electroplating etc.

- Cartridge
- Bag
- Carbon
- For laboratory to large processing
- Filter Ctridges



COLUMN PUMPS

- Non-metallic
- Chemical duty



HYDRAULIC SUBMERSIBLES

- No Electrical Cables
- Variable Speed
- Light Weight



EXTRA HEAVY DUTY SUBMERSIBLES

For Slurries - POLARIS

- Mining
- Sand/Gravel
- Fly Ash etc.



PLUS: MAJOR DISTRIBUTORS FOR TSURUMI SUBMERSIBLE PUMPS

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ENGINE DRIVE SELF PRIMING PUMPS

FLO-KWIP

TOOLKWIP PUMPS

P 03 8805 0500

	MODEL	MAX. L/ MIN	TOTAL HEAD	MAX SUCTION	DESCRIPTION	PRICE
HONDA PETROL ENGINE POWERED SELF PRIMING PUMPS						
DEWATERING PUMPS		QUALITY JAPANESE MANUFACTURE				CODE: B
	SEH-25L	115	32M	8M	Medium Pressure Transfer water Pump, Genuine Honda GX25	
	SEH-25H	135	43M		High Pressure Transfer Water Pumps, Genuine Honda GXH50 4-stroke engine, 49.4cc, Mechanical seal in Carbon/ Ceramic.	
	SEH-40H	280	43M			
	SEH-50X	640	27M		› GENUINE HONDA ENGINES	
	SEH-80X	1100	27M		› Entire Unit is protected by sturdy Rollover Frame	
	SEH-100X	1450	29M		› Strong and lightweight di-cast Aluminum Pump	
	SERH-50V	430	80M		FLO-KWIP High Pressure Pump, 2" (50mm). c/w Honda GX160 H-R Engine, Cast Iron Impeller and Volute. 50mm suction, Discharge 1 x 50mm, and 2 x 25mm	
SEMI-TRASH PUMPS						CODE: A
	STH-50X	570	29M	8M	› Carbide Mechanical Seal (SiC) - for added durability	
	STH-80X	900	26M		› Spheroidal graphite iron casting for Impeller and Casing - Significantly more corrosion resistant than standard FC or Cast Iron	
	STH-100X	1450	28M		› Long Bolt assembly for easy maintenance › Genuine HONDA petrol engines	
HEAVY DUTY TRASH PUMPS						CODE: A
	KTH-50X	700	30M	8M	› FLO-KWIP Trash Pump models are fitted with a hard-faced (SiC/ SiC) mechanical seal for greater abrasion resistance and extended seal life	
	KTH-80X	1340	27M		› Improved Seal Durability › Quick-release front casing - can be easily removed by loosening 4 knobs and pulling the casing off, making it very quick and easy to clear any blockages	
	KTH-100X	1650	26M		› The Impeller is also designed for easy removal › Solids Handling Capacity - up to 27mm diameter › GENUINE HONDA ENGINES	

WHEEL KITS AND DIESEL-POWERED PUMPS ON PAGE 35

*GST: +10% to all prices shown above. Prices are F.O.T Knoxfield and are recommended only. There is no obligation to comply with the recommendations. Prices and specifications are subject to change without notice. Subject to Toolkwip Pumps Pty Ltd Conditions of Sale.

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DIESEL POWERED TRASH PUMPS

MODEL	MAX. L/MIN	TOTAL HEAD	MAX SUCTION	DESCRIPTION	PRICE
-------	------------	------------	-------------	-------------	-------

HONDA PETROL ENGINE POWERED SELF PRIMING PUMPS

HEAVY DUTY, HIGH PERFORMANCE TRASH PUMPS

CODE: A



KTH-80S	1450	27M		High Performance models. As KTH above, except : Higher performance, and Clean out cover can be removed without removing Hoses. 2 Handles on clean-out cover.	
KTH-100S	2050	30M			

DIESEL POWERED TRASH PUMPS

MODEL	MAX. L/MIN	TOTAL HEAD	MAX SUCTION	DESCRIPTION	PRICE
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ELECTRIC START DIESEL-POWERED TRASH PUMPS

CODE: B



FTHZ-50X/E	700	30M	8M	› HATZ 1B20 / HATZ 1B30	
FTHZ-80S/E	1450	27M		› Heavy duty roll frame	
FTHZ-100S/E	2050	30M		› Centre lift point	
				› Battery & battery leads included with electric start models	
				› Diesel-powered models standard with 38mm heavy duty rollframe & centre lift point	

OPTIONS: Mine specifications available on diesel powered trash pumps

ACCESSORIES

MODEL	DESCRIPTION	PRICE
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ACCESSORIES

CODE: F



WK-12-XXX

WHEEL KIT ACCESSORY FOR TRASH PUMPS

Suits all engine drive self priming pumps except SEH-25, 40, 50 and STH-50.

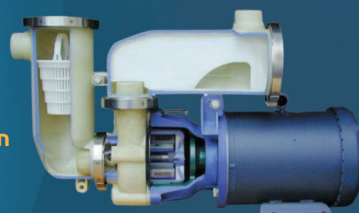
CONTACT TOOLKWIP FOR WHOLESALE

MAGNETIC DRIVE PUMPS

For Acids, Caustics, Sea Water etc..

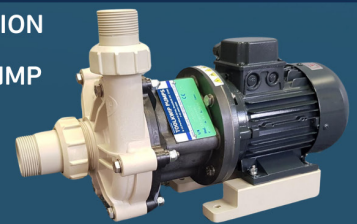
SETHCO SELF PRIMING MAGNETIC DRIVE PUMPS

- Made in USA
- Suction strainer built in
- 'Run-Dry' capabilities after initial prime



LAFONTE END-SUCTION CENTRIFUGAL MAGNETIC DRIVE PUMP

- Made in Europe
- High efficiency
- Top quality



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MODEL	DESCRIPTION	PRICE
LEVEL SWITCHES - FOR 240 VOLT, 12V AND 24 V PUMPS		CODE: F
	REKA 2000 Compact level switch for single phase 240V pumps, capacitive, works in fixed position. Alternative to float switches. Directly switches, pumps up to 4 amps or 500 watts.	
	59400-0012 (RULE ECO 39) Rule Eco Switch Model 39 – For 12 Volt pumps up to max 20 amps. No submerged Electrics. Switches on at 55mm, and off at 25mm. Adjustable. For use with submersible or non-submersible pumps. (As Jabsco Hydro Air Level Switch, P No 59400-0012) Marine Ignition Protection ISO 8846	
	RULE 37A Rule SuperSwitch Float Switch; for 12v and 24v pumps, up to max. 20 amps. Non-mercury, tough design. Marine-grade 14 gauge blocked wire, large float, removable base, snap switch design. 5 year warranty. Marine Ignition Protected.	
12 VOLT LEAD SWITCH KIT		CODE: F
	91006-477A Switch lead and jumper clamp kit, accessory for pump models 3501-503, 3501-505 & 3501-506.	
	R-3006 Switch/Lead and jumper clamp kit for EV4000	
	901-001-R Remco Wire Harness - 16AWG , with Car Power Outlet Adaptor, and On/Off Switch and 2-pin connector. 2.94 m (294cm or 116") long. Rated to max 15 amps on intermittent daily use.	
	901-013-R Remco Wire harness, 20 Amp rating - 12 AWG wiring, 2.4m length, c/w 25A Fuse, 40 Amp Battery clips, and On/Off switch rated for 50 Amps.	
HOSE ASSEMBLIES		CODE: F
	LF-MDB-050-20FB Medium duty blue PVC layflat hose for low pressure transfer of water. Fitted with male and female aluminium camlocks, 2 clamps each end.	
ACCUMULATOR TANKS		CODE: F
	30573-0003 (AT-06/1) Flokkip Accumulator Tank, 0.6 litre, N/B/SS food grade (NSF standard 18), snap-in quad port fittings, 1/2" hose barbs standard, 22cm long x 12cm wide, pre-charged to 10 psi (0.7 bar), max 125 psi (8.6 bar). Mount in any position.	
	30573-0001 Flojet Accumulator Tank, 1 litre with NSF standard 18 listing component (food grade) with internal bladder, max 125 psi, 1/2" (12.7mm) barbed quad quick-connect ports.	

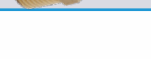
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	MODEL	DESCRIPTION	PRICE
SUCTION STRAINERS			CODE: F
	01740-950	Use 46400-9500 below.	
	46400-9500	Suction Inlet Strainer, 90°, Quad male & Female Inlet & outlet port (Clicks straight onto pump), 40mesh ss screen.	
 	01740-300	Suction Strainer, Compact In-Line Quad Male x Quad Female Ports. (Clicks Straight into pump suction port, in effect just extending the width of pump head).	
	01720-000	Suction Strainer 3/4" hose barb ports, Polypropylene base, Polysulfone clear cover, stainless steel 20 mesh screen, Buna-N FDA O-Ring, flow rate 26 lpm, two lugs for secure mounting. Suits Potable water.	
	01740-000	Suction Strainer 3/4" hose barb ports, Polypropylene base, Polysulfone clear cover, stainless steel 40 mesh screen, Buna-N FDA O-Ring, flow rate 26 Lpm, two lugs for secure mounting. Suits Potable water.	
	01720-102	Suction Strainer 1/2" hose barb ports, OBSOLETE - USE 01740-002	
	01740-002	Suction Strainer 1/2" hose barb ports, Polypropylene base, Polysulfone clear cover, SS 40 mesh screen, Buna-N FDA O-Ring, flow rate 15 Lpm, two lugs for secure mounting. Suits potable water.	
	01740-012	Strainer, Male quad 1/2" HB x 90° Quad, 16 Lpm at 70 psi (5 bar) max, 40 mesh screen. No lugs, mounts direct to pump. (Also available in bulk)	
	01740-102	Obselete - use 01740-002 (01740-102 had PP screen)	
	01720-375	Suction Strainer 3/8" female NPT ports, Polyproplene base, Polysulfone clear cover, SS 20 mesh screen, Buna-N FDA O-Ring, flow rate 8 Lpm, two lugs for secure mounting. Suits potable water. (Use 01740-375 below).	
	01740-375	Suction Strainer 3/8" female NPT ports, Polyproplene base, Polysulfone clear cover, SS 40 mesh screen, Buna-N FDA O-Ring, flow rate 8 Lpm, two lugs for secure mounting. Suits potable water.	
	H1740-375	As 01740-375 Bulk packed in cartons of 50.	
	01720-010	Use 01740-010 below.	
	01740-010	Suction Strainer. 3/4" hose barb x quad port 90° Polyproplene base, Polysulfone clear cover, Buna FDA O-ring on cap, EP O-ring on Quad port, 40m SS Screen.	
	01745-010	Suction Strainer. 3/4" hose barb x quad port 90° Polyproplene base, PETG clear cover, Viton O-rings, 40m SS screen, Max 27 Lpm. Improved chemical resistance. Not for potable water. Temp to 70°C.	
	20420-040	Replacement strainer screen, 40 mesh. Suits 01740 series.	
	46400-0711	Pump guard inlet strainer, 90°, Snap-in port fittings (M & F), 40 mesh. Suits 5-Chamber series. High flow.	

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MODEL	DESCRIPTION	PRICE EA
AIR/CO² INLET FITTINGS		CODE: F
AIR PORT FITTINGS SUITS ALL G57, G58 & 5100 AIR PUMPS		
	1510-000 Air Inlet Fitting. 1/4" Hose Barb, Straight. Includes shut-off valve - automatically shuts off air/Co ² supply when unplugged.	
	1520-000 Air Inlet Fitting. 1/4" Hose Barb, Tee. Includes shut-off valve - automatically shuts off air/Co ² supply when unplugged.	
	1521-000 Air Inlet Fitting. 1/4" Hose Barb, Elbow. Includes shut-off valve - automatically shuts off air/Co ² supply when unplugged.	
	21000-233A Special air port fitting with JG (push-in) inserts. Buna O-rings, plastic fitting. Suits 1/4" O.D. JG push-in tube.	
	21000-232 As above, but suits 3/8"OD push-in tube.	
	21000-233B 12 pack of 2100-233A	
	21000-234 Brass Air Inlet Port X Push-in fitting to suit 1/4" OD tubing, Buna O-ring with Air Shut-off Non-return valve.	
FLUID PORT FITTINGS		
NOTES: SPECIFIC CHEMICALS / OILS BEING PUMPED SHOULD BE CHECKED FOR COMPATIBILITY As a general guide for O-rings: EPDM - Potable water Viton - Many Chemicals Buna - Oils Threads: QEST threads are NPS (National Pipe Thread Standard Parallel), Which is as NPT but without the taper. Plus QEST has chamfer on end of fitting, to suit compression-type seal. QEST is used in some marine applications, NPS/QEST can be used with NPT if both fittings are plastic, and a sealant is used. Further to QEST note above, NPT, NPS/QEST, and BSP are reasonably compatible for plastic/PP fittings in 3/8", 1/2", and 3/4" threads		
THREADED PORTS - SUITS DUPLEX & SOME TRIPLEX MODELS		CODE: F
Fittings below sold individually		
	PPHB06N06 Hose Barb, PP, 1/4" MNPT, 1/4" HB, Straight	
	PPHB06N10 Hose Barb, PP, 1/4" MNPT, 3/8" HB, Straight	
	PPHB06N15 Hose Barb, PP, 1/4" MNPT, 1/2" HB, Straight	
	BHB1010 Brass Hose Barb, 3/8" MBSP, 10mm HB	
	PPHB10N06 3/8" MNPT. 1/4" (6.4mm) Hose Barb, Straight	
	PPHB10N10 Polypropylene 3/8" MNPT, 3/8" HB, Straight	
	PPHB10N15 Polypropylene 3/8" MNPT, 1/2" HB, Straight	
	PPHBE-06N10 Hose Barb, PP, 1/4" MNPT, 3/8" HB, Elbow	
	PPHBE-10N10 Polypropylene 3/8" MNPT, 3/8" HB, Elbow	
	91010-002 Nylon 3/8" threaded NPT Male 3/8" Hose Barb, Straight (Also available in elbows)	

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	MODEL	DESCRIPTION	PRICE
LFP FLUID PORTS, SNAP-IN - SUITS LFP, BLC BEVJET & G58 SERIES PUMPS			CODE: F
	20325-030	LF Snap-in Ports x 3/8" HB, SS / EPDM, Standard on G58	
	20325-031	LF Snap-in Ports x 3/8" (9.5mm) HB, Straight, Celcon (Acetal)/EPDM	
	21000-232A	LF Snap-in Ports x 3/8" JG Push-in, Straight, PP / EPDM	
	21000-232B	As 21000-232A, in pack of 12	
	21000-679A	LF Snap-in Ports x 5/16" JG Push-in, Elbow PP / EPDM	
QUAD PORT FITTINGS - SUITS G57 AIR PUMPS, ALL QUAD & SOME TRIPLEX MODELS			PRICE/ KIT OF 2
	20381-026	Quad Port x 10/13mm HB, EP O-ring (3/8" / 1/2"), Straight	
	20381-070	Quad Port x 10/13mm HB, Viton O-ring	
	20381-096	Quad Port x 10/13mm HB, Viton -Extreme O-ring	
	20381-002	Quad Port x 1/2" HB, Straight, EPDM	
	20381-015	Quad Port x 1/2" HB, Straight, Viton	
	20381-006	Quad Port x 3/4" HB, Straight, EPDM	
	20381-014	Quad Port x 3/4" HB, Straight, Viton	
	20381-097	Quad Port x 3/4" HB, Straight, Viton-Extreme O-ring	
	20381-024	Quad Port x 3/8" - 1/2" HB, 90° Elbow, EPDM	
	20381-009	Quad Port x 1/2" HB, 90° Elbow, EPDM	
	20381-017	Quad Port x 1/2" HB, 90° Elbow, Viton	
	20381-010	Quad Port x 3/4" HB, 90° Elbow, EPDM	
	20381-018	Quad Port x 3/4" HB, 90° Elbow, Viton	
	20381-042	Quad Port x 3/8" NPT, Straight, EPDM	
	20381-043	Quad Port x 3/8" NPT, Straight, Viton	
	20381-044	Quad Port x 3/8" NPT, Straight, Buna	
	20381-000	Quad Port x 1/2" QEST, Straight, EPDM (See also 20381-001)	
	20381-034	Quad Port x 1/2" QEST, Straight, Viton	
	20381-039	Quad Port x 1/2" NPT, Straight, EPDM	
	20381-040	Quad Port x 1/2" NPT, Straight, Viton	
	20381-041	Quad Port x 1/2" NPT, Straight, Buna	
	20381-008	Quad Port x 1/2" QEST Threaded Elbow, EPDM	
	20381-050	Quad Port x 3/8" NPT, 90°, Elbow, EPDM	

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MODEL	DESCRIPTION	PRICE
QUAD PORT FITTINGS - SUITS G57 AIR PUMPS, ALL QUAD & SOME TRIPLEX MODELS		PRICE/ KIT OF 2
		CODE: F
	20381-052	Quad Port x 3/8" NPT, 90°, Elbow, Viton
	20381-051	Quad Port x 3/8" NPT, 90°, Elbow, Buna
	20381-047	Quad Port x 1/2" NPT, 90°, Elbow, EPDM
	20381-049	Quad Port x 1/2" NPT, 90°, Elbow, Viton
	20381-048	Quad Port x 1/2" NPT, 90°, Elbow, Buna
	20381-007	Quad Port x Garden Hose Adaptor, EPDM
	20381-064	Quad Port x 1/4" OD JG Push-in, Straight, EPDM O-Ring
	20381-058	Quad Port x 3/8" OD JG Push-in, Straight, EPDM O-ring
	20381-060	Quad Port x 3/8" OD JG Push-in, Straight, Viton O-ring
QUAD PORT FITTINGS - KIT OF 4		CODE: F
	20381-001	Kit of 4 Quad Ports Quad 1/2" QEST Straight x 2 Quad x 1/2" Hose Barb straight x1, & Quad x 1/2" HB Elbow
5 CHAMBER QUICK DISCONNECT PORTS - SUITS SOME VERSIJET & HOTSHOT MODELS		CODE: F
	20381-513	Use 20381-515 below
	20381-515	Fluid Port Kit: 5 Chamber Quick Disconnect, 3/4" HB, 2 x Straight and Elbow, Viton O-rings. Suits Versijet model R8500-134 and R8600-134
	20381-700	5-Chamber Quick Disconnect x 3/4" HB, Straight, Kit of 2, EPDM Suits model R8600-144
	20381-701	(Use 50640-100 below)
	20381-702	5-Chamber Quick Disconnect x 3/4" HB, Straight, PP / Viton, Kit of 2
	50640-100	5-Chamber Quick Disconnect x 1" HB, EPDM, Straight
	20381-704	5-Chamber Quick Disconnect x 1/2" QEST Straight, PP/EPDM (1/2-14 QEST)
	20381-715	5-Chamber Quick Disconnect x 1/2" QEST Straight, PP/Viton (1/2-14 QEST)
	20381-710	5-Chamber Quick Disconnect x 3/4" HB, <u>Elbow</u> , EPDM
	20381-712	5-Chamber Quick Disconnect x 3/4" HB, <u>Elbow</u> , PP / Viton
	20381-714	5-Chamber Quick Disconnect x 1/2" QEST <u>Elbow</u> , PP/EPDM (1/2-14 QEST)
	20381-716	5-Chamber Quick Disconnect x 1/2" QEST <u>Elbow</u> , PP/Viton (1/2-14 QEST)
		Note: 1/2: QEST (1/2-14 QEST) is compatible with 1/2" BSP

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AGRICULTURAL CHEMICAL RESISTANCE TEST DATA

AG CHEMICAL	ELASTOMER					
	EPDM (Com)	EPDM (FDA)	EPDM (Fab)	SANTO (TPV)	VITON	BUNA
Diazinon	C	C	C	B	A	C
Chickweed Killer	A	A	A	A	A	A
Triox Veg Killer	C	C	C	C	B	C
Round-Up Conc	A	A	A	A	A	A
Sevin	A	A	A	A	A	B
Malathion	A	C	B	A	B	C
Spectracide	A	A	A	A	A	A
Ortho Weed-B-Gon	A	A	A	A	A	A
Ortho Weed & Grass Killer	A	A	A	A	A	A
Home Orchard Spray	A	A	A	A	A	B
Lasso MT	A	A	A	A	A	A
Round-Up Super Conc.	A	A	A	A	A	A
Grass & Weed Killer						
Wipe-Out Weed Killer	A	A	A	A	A	A
Lasso EC	A	B	A	A	B	C
Ortho Malathion 50 P	A	C	B	A	B	C
Super K-Gro (Dursban)	C	C	C	C	A	C
Ortho Liquid Sevin	A	A	A	A	A	A
2,4-D Amine 4	A	A	A	A	A	A
Dursban 4E	C	C	B	B	A	C
Dursban 2E	C	C	B	C	A	C
Dow Elanco 2,4,D Bee	C	B	A	B	A	C
Lorsban 4E	B	C	B	B	A	C
Dursban 50W	A	A	A	A	A	A

A - No Significant Effect

B - Moderate Effect, Generally Satisfactory

C - Major Effect, Not Satisfactory

This Chemical Resistance Guide is offered to assist in selecting pump materials that are most resistant to the chemicals that may be used with a Xylem pump. The information is based on Xylem laboratory tests, field testing programs and general data from industry sources. It should be used only as a guide in the selection of pump materials. Suitability for the application should be determined by actual use and is the full responsibility of the customer. No warranty, expressed or implied, can be extended by Xylem or Toolkwip Pumps, where failure is caused by chemical attack on pump materials. Temperature, aeration, concentration and other factors may change the effect of the specific fluid on the pump materials. Data shown is based on results at ambient temperatures, unless otherwise noted.

Prices and specifications are subject to change without notice.

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GUIDE ONLY:

This Chemical Resistance Guide is offered to assist in selecting pump materials that are most resistant to the chemicals that may be used with a Xylem pump. The information is based on Xylem laboratory tests, field testing programs, and general data from industry sources. It should be used only as a guide in the selection of pump materials. Suitability for the application should be determined by actual use and is the full responsibility of the customer. No warranty, expressed or implied, can be extended by Xylem or Toolkwip Pumps where failure is caused by chemical attack on pump materials. Temperature, aeration, concentration, and other factors may change the effect of the specific fluid on the pump materials. Data shown is based on results at ambient temperatures, unless otherwise noted.

RATING SYSTEM

The "A" rating indicates little effect on the physical properties of the material (Generally Satisfactory).
The "B" rating indicates minor to moderate effect (Generally Satisfactory but Should be Qualified By Testing).
The "C" rating indicates a change in the physical properties in excess of acceptable tolerances could occur (Generally Not Satisfactory, Must be Qualified By Testing).
The "D" rating indicates rapid physical deterioration, swelling of check valves, or diaphragm, or chemical attack on the pump housing material (Not Satisfactory).
Where no rating is shown, data is not currently available, and pump materials should be qualified by testing. It is recommended that the pump be thoroughly flushed with water or other neutralizing agent after each use whenever possible.

No warranty or liability, express or implied, can be attributed to Toolkwip Pumps where failure is caused by chemical attack on pump materials.



FLAMMABLES WARNING

NO PUMP MANUFACTURED BY XYLEM SHOULD BE USED FOR GASOLINE OR ANY FLUID WITH A FLASH POINT BELOW 100°F (38°C).

ELASTOMER	PROPERTIES	GENERAL CHEMICAL RESISTANCE	
		RESISTANCE TO	ATTACKED BY
BUNA-N	Excellent resistance to petroleum-based fluids. Good physical properties.	Many hydrocarbons, fats, oils, greases, hydraulic fluids, chemicals.	Ozone (except PVC blends), ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.
EP/PP BLEND (SANTOPRENE) (TPV)	Resistant to a wide variety of solvents and chemicals. Excellent abrasion resistance and long mechanical flex life in hot and cold environments.	High polar fluids such as alcohols, ketones, glycols, esters, and aqueous-solutions of acids, salts and bases.	Most hydrocarbons and petroleum or oil-based products
EPDM	Excellent ozone, chemical, and aging resistance. Poor resistance to petroleum-based fluids.	Animal and vegetable oils, ozone, strong and oxidizing chemicals.	Mineral oils and solvents, aromatic hydrocarbons.
FFKM (KALREZ)	Excellent chemical resistance. Excellent high and low temperature properties.		
FKM (VITON)	Excellent oil and air resistance both at low and high temperatures. Very good chemical resistance.	All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	Ketones, low molecular weight esters and nitro-containing compounds, and nitro hydrocarbons.
FLUORO-SILICONE	Moderate or oxidizing chemicals, ozone, aromatic chlorinated solvents, bases.	Brake fluids, hydrazine, ketones.	
NATURAL RUBBER	Excellent physical properties including abrasion and low temperature resistance. Poor resistance to petroleum-based fluids.	Most moderate chemicals, wet or dry, organic acids, alcohols, ketones, aldehydes and alkalis.	Ozone, strong acids, fats, oils, greases most hydrocarbon, including benzene, toluene, gasoline, and lubricating oils.
Neoprene	Good weathering resistance. Flame retarding. Moderate resistance to petroleum-based fluids.	Moderate chemicals and acids, ozone, oils, fats, greases, many oils and solvents.	Strong oxidizing acids, esters, ketones, chlorinated, aromatic and nitro hydrocarbons.
Silicone	Excellent high and low temperature properties. Fair physical properties.	Moderate or oxidizing chemicals, ozone, concentrated sodium hydroxide.	Many solvents, oils, concentrated acids, dilute sodium hydroxide.

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	Plastics					Elastomers						Alloys	
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Acetaldehyde	A	A	D		D	C	D	A	B	B	A	A	A
Acetamide	A	A	A	A	C	B	A	B	A	A	A	A	
Acetate Solvents (crude)	D	A	A	N/A	A	D	D	C	B	B	A	A	
Acetate Solvents (pure)	D	A	B			D	D	C	B	B	A	A	
Acetic Acid, Glacial	A	D	A	D	A	D	C	B	B		A	A	A
Acetic Acid, 10%	A	C	A			C	B		B		A	A	
Acetic Acid, 20%	A	B	A	C	A	C	B	B	B		A	A	
Acetic Acid, 50%	A	D	A			C	A		B	A	A	A	
Acetic Acid, 80%	B	D	A	D	C	C	C	B	A	B	A	A	
Acetic Acid (pure)	A	D	A	D	C	D	C	B	B	B	A	A	A
Acetic Anhydride	C	A	C	D	B	D	D	C	C	B	A	A	A
Acetone	A	A	C	A	D	D	D	B	A	C	A	A	
Acetophenone	C					D	C		A	D	A	B	
Acetyl Chloride	D	D	D	D	A	A	D	C	D	B	A	B	
Acetylene	A	A	A	A	A	A	B	B	A	C	A	A	
Acetylene Tetrabromide	A		A			A	D				A	A	
Acetylsalicylic Acid	A	A								C	A	A	
Acrylonitrile	A	A	A	N/A	A	D	D	D	D	D	A	B	
Adipic Acid				N/A	A		A			V	A		
Aero Lubriplate						A	A	B		C	A		
Aero Safe 2300						D	D	C		B	A		
Alcohol - Amyl	A	A	B	A	A	C	B	D	A	A	A		
Alcohol - Benzyl	A	D	D	A	A	A	D		B	A	A	A	A
Alcohol - Butyl	A	A	A	A	A	A	A	B	B	A	A	A	A
Alcohol - Diacetone	A	A	B	A	A	C	D	D	A	C	A	A	A
Alcohol - Ethyl	A	A	B	A	N/A	B	C	B	A	B	A	A	A
Alcohol - Hexyl		A	A	A	N/A	B	A	B		B	A	A	A
Alcohol - Isobutyl	A	A	A	A	N/A	A	B	A	A	A	A	A	A
Alcohol - Isopropyl	A	B	A	A	N/A	A	B	A	A	B	A	A	A
Alcohol - Methyl	A	A	A	A	A	C	A	A	A	A	A	A	A
Alcohol - Octyl	A	A	A	A	N/A	B	B	B	A	B	A	A	A
Alcohol - Propyl	A	B	A	A	A	A	A	A	A	A	A	A	A
Aluminum Chloride, 20%	A	C	B	C	A	A	A	B	A		A	C	A
Aluminum Chloride	A	D	B	N/A	A	A	A	B	A	A	A	C	B
Aluminum Citrate											A		
Aluminum Flouride	A	A	A	C	A	C	A	B	A		A	C	
Aluminum Formate						D	D				A		

	Plastics					Elastomers						Alloys	
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Aluminum Hydroxide	A	A	A	A	A	B	A		A		A	A	
Aluminum Nitrate	A		A	B	A	B	A				A		
Aluminum Oxychloride	A					D					A		
Aluminum Phosphate						A	A			A	A		
Aluminum Potassium Sulfate, 10%	A	D	A	C	B	A	A	A	A	A	A	B	
Aluminum Potassium Sulfate	A	D	A	C	N/A	A	A	A	A	A	A	A	C
Aluminum Sulfate	A	A	A	B	A	A	A	A	A		A	B	
Amines	B	D		D	N/A	D	D	B	B	A	A		B
Ammonia, 10%	A	A	C	D	A	C	D			A	A		
Ammonia, anhydrous	A	A	A	D	A	D	C	D	A	A	A	A	
Ammonia (liquid)	A	B		D	A	D	C		A	A	A	A	B
Ammonia Nitrate	A	D		C	A	D	C		A	A	A	A	
Ammonium Acetate				N/A	N/A	A	A		A	A	A		
Ammonium Alum							B				A		
Ammonium Bichromate							A		A		A		
Ammonium Bifluoride	A		A	D	A	A	B		A	A	A		
Ammonium Bisulfide	A										A		
Ammonium Carbonate	A	A	B	D	A	A	C	A		A	A	B	
Ammonium Casenite				D	N/A					A	A	A	B
Ammonium Chloride	A	C	A	B	A	A	B		A	A	A	C	
Ammonium Dichromate							A			A	A		B
Ammonium Fluoride							B			B	A		
Ammonium Fluoride, 10%	A					A	A				A		
Ammonium Fluoride, 25%	A										A		
Ammonium Hydroxide	A	A	A	C	A	B	C	A	A		A	A	B
Ammonium Metaphosphate	A		A			A	A		A		A		
Ammonium Nitrate	A	B		A	A	A	A		A	A	A	A	D
Ammonium Oxalate		B	A	B	N/A		A			A	A	A	
Ammonium Persulfate	A	C	A	D	A	B	C		B	A	A	A	D
Ammonium Phosphate, Dibasic	A	C		B	A	A	A	A	A	A	A	C	

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CHEMICAL RESITANCE GUIDE

	Plastics					Elastomers					Alloys		
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Ammonium Phosphate, Monobasic	A	B	A	B	N/A	A	A	A	A		A	C	
Ammonium Phosphate, Tribasic	A	B	A	B	N/A	A	A	A	A		A	B	
Ammonium Sulfate	A	A	A	B	A	A	A	A	A	C	A	B	B
Ammonium Thiosulfate			A	B	N/A		A			A	A	A	
Amyl Actate	C	A	A	B	A	D	D	D	A	D	A	A	A
Amyl Alcohol	B	A	B	A	A	B	B	D	A	A	A	A	
Amyl Chloride	D	C	D	A	A	B	D	D		C	A		A
Anniline	C	C	B	A	A	D	D	D	B	A	A	B	B
Anti-Freeze	D	D		D	N/A	A	A			A	A	A	
Aqua Regia	B	D	C	D	A	B	D	D		D	A	D	D
Arochlor	D	A	B	N/A	N/A	A	C	B	B	D	A	B	A
Aromatic Hydrocarbons	D		D	A	N/A	A	C	D	D	C	A	B	
Arsenic Acid	A		B	D	A	A	A	A	A	A	A	B	B
Asphalt	B	A	C	B	A	A	B	D	D	B	A	A	
Barium Carbonate	A	A	B	A	A	A	A		A	A	A	B	B
Barium Chloride	A	A	A	A	A	A	A	A	A	A	A	B	A
Barium Cyanide	D		B	B	N/A	A	C		A	A	A	B	
Barium Hydroxide	B	A	B	D	A	A	B	A	A	A	A	B	B
Barium Nitrate	A	A	B	B	N/A	A	A		A	A	A	B	B
Barium Sulfate	A	A	A	B	A	A	A	A	A	A	A	A	C
Barium Sulfide	B	A	A	A	A	A	A	A	A	A	A		
Beer	A	A	A	A	A	A	A	A	A		A	A	A
Beer Sargar Liquid	B	A		B	A	A	A	A	A		A	A	
Benzaldehyde	C	C	D	A	A	D	D	D	C	D	A	A	A
Benzalkonium Chloride											C	A	
Bezene	C	A	D	A	A	A	D	D	D	C	A	B	B
Benzoic Acid	B	C	C	B	A	A	D	B	C	A	A	B	B
Benzol	A	D	C	A	A	A	D		B	C	A	A	
Benzyl Benzonite						A	D		C	C	A		
Benzyl Chloride				A	N/A	D	D	D	D	C	A		
Black Liquor	A	A				A	A	B	B	C	A		
Bleach	A	C	A	N/A	N/A	A	D	B	A	B	A		
Borax	A	A	A	B	A	A	C	B	A	A	A	A	A
Boric Acid	A	B	A	A	A	A	A	A	A	A	A	B	A
Brake Fluid				B	N/A	D	C	C	A	A	A		
Brewery Slop						A	A				A	A	
Brine	A					A	A				A		

	Plastics					Elastomers					Alloys		
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Brine Acid	A		A			A	A		A		A		
Bromine (dry)		D		D	A	A	D	D	D	C	A		A
Bromine (gas)		D				A	D	D	D		A		A
Bromine (liquid)	D	D	D			A	D	D	D	C	A	D	A
Bromine Water	C	D	D			A	C	D	D	B	A		A
Bromobenzene								D		D	A		
Bromotoluene	D									C	A		
Butadiene	C	A	D	A	A	A	C	D	C	D	A	A	
Butane	A	A	C	A	A	A	A	D	C	D	A	A	B
Butanediol			A			A			D	B	A		
Butter			A	A	N/A	A	A	B	A	B	A	A	
Buttermilk	A	B	A	A	N/A	A	A			A	A	A	A
Butylene		B	C	A	A	A	B	D	D	C	A	A	
Butyl Acetate	B	A	C	A	B	D	D	D	B	B	A	B	A
Butyl Acetate (pure)	D					D			A		A		
Butyl Acetate (saturated)	D					D	C		D		A		
Butyl Amine	D			C	A	D	C	B	D	A	A		B
Butylebenzine						A	D				A		
Butyl Benzorte						A	D		A	C	A		
Butyric Acid	C	B	C	A	A	C	D		B	A	A	B	B
Calcium Bisulfate				N/A	N/A			A		C	A	A	
Calcium Bisulfide	A	A		D	A	A	A		C	D	A	B	
Calcium Bisulfite	B	A	A	D	A	A	A	A	D	D	A	A	B
Calcium Carbonate	A	A	B	A	A	A	A	A	A	A	A	B	B
Calcium Chlorate				A	A	A	C		A	A	A		
Calcium Chloride	A	A	B	D	A	A	A	A	A	A	A	B	B
Calcium Hydroxide	A	A	B	D	A	A	B	A	A	A	A	B	A
Calcium Hyprochloride	A	C	B	D	A	A	B	B	B	A	A	C	B
Calcium Sulfate	A	D	B	D	A	A	A		A	A	A	B	B
Calgon	A	A		A	N/A	A	A		A	A	A	A	
Cane Juice	C	A		A	A	A	A	A	A	A	A	A	
Carbolic Acid	B	D	B	D	A	A	C	D	B	A	A	B	
Carbon Bisulfide	C	A	D	A	N/A	A	C		D	D	A	B	
Carbon Dioxide (wet or dry)	A	A	B	A	A	A	C	B	B	A	A	A	A
Carbon Monoxide	A	A	A	A	B	A	A	A	A	A	A	A	A
Carbon Tetrachloride	D	C	D	B	A	B	C	D	D	D	A	B	B
Carbonated Water	B	A	A	A	N/A	A	A			A	A	A	
Carbonic Acid	A	A	A	B	A	A	B	A	A	A	A	B	A

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	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel
Casein						A	A		A	A	A	
Catsup	A	A		B	N/A	A	A			A	A	A
Caustic Lime						B	A		A		A	
Caustic Potash	A					D	A		A		A	B
Caustic Soda	A					B	C		A		A	A
Chloral Hydrate	A	D				A	C				A	
Chloroacetic Acid	C	D		D	A	D	C		B	D	A	C
Chloric Acid		D	C	D	N/A		D				A	C
Chloric Acid, 20%	D			D	N/A						A	
Chlorinated Glue				D	N/A	A	C		B		A	A
Chlorine Dioxide	C					D				D	A	
Chlorine (dry)	C	D	B	D	A	C	D	D	B	C	A	B
Chlorine Gas (dry)	D					B	C		D	C	B	
Chlorine Gas (wet)	D					C	C		D	C	A	
Chlorine (liquid)	C	D	C	A	A	A	C			D	A	D
Chlorine Water	C		A	D	B	A	C		B	D	A	C
Chlorobenzene (Mono)	C	B	C	D	A	A	D	D	D	C	A	B
Chloroform	C	D	C	A	A	A	D	D	D	C	A	A
Chlorosulfonic Acid	D	D	D	D	D	D	D	D	D	C	A	D
Chlorox Bleach	D	A	B			A	B		B		A	A
Chocolate Syrup	A	A		A	N/A	A	A				A	A
Chresylic Acid, 50%			D			A	D			A	A	
Chrom Alum	C		A			A	A	A			A	
Chromic Acid, 05%	B	D	B	D	A	A	D	C	A	A	A	A
Chromic Acid, 10%	C	D	A	D	A	B	D	C	B		A	B
Chromic Acid, 20%	C	D	A			B	C	C	B		A	
Chromic Acid, 30%	C	D	A	D	A	A	D	C	B		A	B
Chromic Acid, 50%	C	D	C	D	A	A	D	C	B	A	A	B
Chromium Alum	A					A			A		A	
Cider	A		B	A	N/A	A	A			A	A	A
Citric Acid	A	A	A	B	A	A	A	A	A	A	A	A
Citric Oils	A			B	N/A	A	A		B	C	A	A
Cobalt Chloride						A	A	B	A	A	A	
Coconut Oil	A		A			A	A	A	A	B	A	A
Coffee	A	A		A	N/A	A	A	A	A	A	A	A
Copper Chloride	A	A	B	A	A	A	A	A	A	A	A	C
Copper Cyanide	A	A	A	A	A	A	A	A	A	A	A	B
Copper Fluoborate				B	N/A	A	B			A	A	D
Copper Nitrate	A	D	B	A	A	A	A			A	A	B
Copper Sulfate	A	C	B	D	A	A	A	A	A	A	A	B

	Plastics					Elastomers					Alloys	
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel
Cream	A	A		A	N/A	A	A				A	A
Cresols	D	D	C	D	A	A	D	D	D		A	A
Cresylic Acid	D	D	B	D	B	A	D	D	D		A	A
Cyanic Acid				D	N/A	A	C				A	
Cyclohexane	C	A	B	A	A	A	B	D	D	C	A	A
Detergents	B	A	A	A	A	A	A	A	A	B	A	A
Diacetone Alcohol	A			N/A	D	D	D	D	A	B	A	
Diazo Salts	A		A								A	
Dibutyl Amine						C	C	C	D	C	A	
Dibutyl Ether						C	C	D	C	B	A	
Dibutyl Phthalate	B	A				B	D	B	A	B	A	B
Dibutyl Sebacate						C		B	B	B	A	
Dichlorethane	A	C	C			C				D	A	B
Dichloromethane						B	D		D		A	
Diesel Fuel	B		C	A	A	A	A	D	D		A	A
Diethylamine	B	A	D	B	D	C	C	B	B	C	A	B
Diethyl Ether	B			N/A	A	C	D	D	C	B	A	B
Diethyl Oxide						D	B		D		A	
Diethylene Glycol	A	A	B	A	A	A	A	D	A	A	A	A
Diglycolic Acid	A			D	A	A			A		A	
Diisobutyl Ketone						D			D	B	A	
Diisobutylene						A		D	D		A	
Diisooctyl Phthalate						B			B	C	A	
Diisopropyl Ketone						D		D	B	C	A	
Dimethyl Amne	A					D	B		C		A	
Dimethyl Benzene						A	D		D		A	
Dimethyl Ether				D	D	B	B		B		A	
Dimethyl Formamide	A	A				C	B	B	B		A	
Dimethyl Ketone						D	D		A		A	
Dimethyl Phthalate				D	D	B	C		B		A	
Dimethylamine	A					D			D		A	
Diocetyl Phthalate	D		D			A	D	C	B		A	
Dioxane	B	A				D	D	D			A	
Diphenyl Oxide	D		D	D	B	A	D	C	D	C	A	B
Dyes		A		C	N/A	A					A	A
Epsom Salts	A	A	A	B	A	A	A	A	A	A	A	B
Ethane	C	D	D	A	A	A	A	D	D	C	A	A
Ethanolamine	B	A		A	N/A	D	B	B	B	A	A	B
Ether	D	A	C	D	C	C	D	D	C	C	A	B
Ethyl Alcohol	B	A	B	A	B	D	D	B	B	A	A	B
Ethyl Chloride	C	A	B	A	D	A	A	D	A	D	A	A

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	Plastics					Elastomers					Alloys		
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Ethylene Chloride	C	B	C	A	A	B	D	D	D	D	A	A	B
Ethylene Dichloride	B	B	C	A	A	A	D	D	C	D	A	A	A
Ethylene Glycol	A	B	A	B	A	A	A	A	A	D	A	A	B
Ethylene Oxide	C	A	C	B	A	D	D	D	C	A	A	C	
Fatty Acids	B	A	B	S	A	D	D	D	C	A	A	A	A
Ferric Chloride	B	C	A	A	A	A	B	B	A	B	A	C	C
Ferric Nitrate	B	A	B	D	A	A	A	C	A	A	A	A	B
Ferric Sulfate	B	A	A	D	A	A	A	B	A	A	A	A	B
Ferrous Chloride	A	C	A	D	A	A	A			A	A	C	D
Ferrous Sulfate	A	C	A	D	A	A	A		A	A	A	B	B
Flouboric Acid	A	D	B	D	A	A	A		A	A	A	C	A
Fluorine	C	D	C	A	A	B	C	D	A	A	A	C	B
Fluosilic Acid	A	D	B	D	A	A	A	B	A	D	A	B	
Formaldehyde	C	D	B	A	A	D	C	B	A	A	A	A	B
Formaldehyde, 40%	A	C	A	A	A	A	B		A	A	A	A	B
Formic Acid	A	C	B	A	A	C	B	B	A		A	C	B
Freon 11	D	D	C	A	A	A	B	D	D	A	A	A	
Freon 12	D	D	C	D	A	B	A	D	B	B	A	A	
Freon 22	A	B	A	B	A	D	D	D	A	D	A	A	
Freon 113	D		D	A	A	B	A	D	D	D	A	A	
Freon T.F.	D	D	D	A	B	B	A	D	D	D	A	A	
Fructose	A		A	A	B	A	A		A	D	A	A	
Fruit Juice	A	A	V			A	A				A	A	
Fruit Pulp	A		A	D	A	A					A	A	
Fuel Oils	B	A	D			A	A	C	D		A	A	B
Furan Resin	D		D	A	B	D	D	D	C	C	A	A	A
Furfural	C	B	D	D	D	D	D	D	B		A	A	B
Gallic Acid	A	B	D	A	B	A	A		A	A	A	B	B
Gasoline	D	A	D	N/A	A	B	A	D	D	A	A	A	A
Gelatin	A	A	A	B	A	A	A	A	A	C	A	A	B
Glucose	A	B	A	B	A	A	A	A	A	A	A	A	
Glue		A	A	A	A	A	A	A	A	A	A	A	
Glycerin	A	A	A	A	N/A	A	A	A	A	A	A	A	A
Glycerol	A	A	A	A	A	A	A	A	A		A	A	A
Glycolic Acid	A		A			A	A	A	A	A	A	A	B
Gold Monocyanide				A	B	A	A			C	A	A	
Grape Juice		A	B	A	A	A	A			A	A	A	
Grease				A	A	A	D			A	A	A	
Heptane	C	A	C	D	A	A	A	D	D	B	A	A	B
Hexane	C	A	C	A	A	A	A	D	D	C	A	A	B

	Plastics					Elastomers					Alloys		
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Honey	A	A	B	A	A	A	A				A	A	
Hydraulic Oil (Petroleum)	D	A	D	B	A	C	A	C	D	D	A	A	
Hydraulic Oils (Synthetic)	D	A	A	N/A	A	A	C			D	A	A	
Hydrazine	C			B	A	A	B	C	A	A	A	A	
Hydrobromic Acid, 20%	A	D	B	C	A	A		D	A	B	A	D	
Hydrobromic Acid	A	D	A	D	A	A	D	D	A	B	A	D	B
Hydrochloric Acid (dry gas)	B	A	A	N/A	A				C		A	D	B
Hydrochloric Acid, 20%	B	D	A	C	A	A	C	C	A	A	A	D	A
Hydrochloric Acid, 37%	B	D	C	C	A	A	B	B	A	B	A	D	B
Hydrochloric Acid, 100%	D	B		C	A	A	D	D	C		A	D	A
Hydrocyanic Acid	A	C	A	B	A	A	B	C	A		A	B	A
Hydrocyanic Acid (gas 10%)	A			C	N/A	A	B		A		A		A
Hydrofluoric Acid, 20%	A	C	A	D	A	A	C	D	A	D	A	C	
Hydrofluoric Acid, 50%	A	D	A	D	A	A	C	D	A	D	A	D	B
Hydrofluoric Acid, 75%	C	D	C	D	A	A	D	D	C	D	A	D	B
Hydrofluosilicic Acid	A	D	B	D	A	A	B	D	A	D	A	D	B
Hydrogen Gas	A	A	A	A	A	A	A	C	A		A	A	A
Hydrogen Peroxide, 10%	B	C	A	N/A	A	A		B		A	A	B	D
Hydrogen Peroxide, 30%	B	D	C	D	A	A		B		A	A	B	D
Hydrogen Peroxide, 50%	B	D	C	D	A	A		B		A	A	A	C
Hydrogen Peroxide, 100%	B	D	C	D	A	A	B	B	A	A	A	A	A
Hydrogen Sulfate (aqua)	A	C	A	D	A	D	D	C	A	A	A	C	A
Hydrogen Sulfide (dry)	A	C	A	C	A	D	A	C	A	A	A	B	B
Hydroxyacetic Acid			A	N/A	A	A	A		A	A	A		
Hydroxyacetic Acid, 70%			A		A	A	A		A	A	A		
Hydroxylamine Sulfate	A			A	A				A		A		

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CHEMICAL RESISTANCE GUIDE

	Plastics					Elastomers						Alloys	
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Hydrochlourous Acid	A		A			B	D		B	A	A	D	
Ink	A	C	D	B	A	A	A			A	A	A	
Iodine	B	D	B	D	A	A	B		B	A	A	C	B
Isotane	D	D		N/A	A	A	A				A		
Isopropyl Acetate	B	B	B	D	D	D	D		B	B	A	B	B
Isopropyl Ether	C	A	C	D	D	D	B	D	D	C	A	A	
Jet Fuel JP-3	A	A	C	A	B	A	A	D	D		A	A	A
Jet Fuel JP-4	B	A	C	A	B	A	B	D	D		A	A	A
Jet Fuel JP-5	B	A	C	A	B	A	A	D	D		A	A	A
Kerosene	A	A	C	A	A	A	A	D	D	C	A	A	A
Ketones	B	A	C	D	C	D	D	D	C	C	A	A	B
Laquer	B	A	C	D	D	D	D		D	C	A	A	
Laquer Thinner	B	A	B	D	N/A	D	D	D	A	C	A	A	
Lactic Acid	A	C	B	B	B	A	A	D	B	A	A	A	B
Lard	A	A	B	A	A	A	A	A	C	B	A	A	A
Latex	A	A	A	B	A	A	A	B	B	A	A	A	
Lead Acetate	A	B	B	B	A	D	B		A	A	A	B	B
Lead Chloride	A					A		D	A		A		
Lead Nitrate	A			N/A	A	A	A		A		A	B	B
Lead Sulfamate	A	B	A	A	A	A	B	B	A	A	A	B	
Ligroin	B	D	C	B	A	A	A	B	C	B	A	A	
Lime	A	A	B	B	A	A	A	D	C	A	A	A	
Linoleic Acid	A			B	A	B	B	B	D	B	A	A	
Linseed Oil	A	A	D			A	A	B	B	B	A	A	A
Lubricants	A	A	D	A	A	A	A	A	D	D	A	A	B
Magnesium Carbonate	A		A	A	A	A	A	D	A	A	A	A	B
Magnesium Chloride	A	A	A	B	A	A	A		A	A	A	A	A
Magnesium Carbonate	A	B	A	A	A	A	A	A	A	A	A	A	B
Magnesium Nitrate	A	A	A	A	A	A	A	A	A	A	A	A	B
Magnesium Oxide				A	N/A		A			A	A	A	
Magnesium Sulfate	A	A	A	B	A	A	A		A	A	A	B	A
Maleic Acid	A	B	B	A	A	A	D	A	D	A	A	B	B
Maleic Anhydride	D			D	A	A	D	B	D	A	A		A
Mash		A		A	N/A	A	A		A	A	A	A	
Mayonnaise		A	B	A	A	A	A			A	A	A	
Melamine	A	A		A	N/A	A	C		A		A	D	
Mercuric Chloride	A	D	A	B	A	A	A			A	A	C	D
Mercuric Cyanide	A	A	A	N/A	A	A	A			A	A	B	D
Mercury	B	A	A	A	A	A	A		A	A	A	A	B

	Plastics					Elastomers						Alloys	
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FKM	316 stainless steel	Hastelloy
Methyl Acetate	D	A	B	B	B	D	D	D	B	B	A	A	B
Methyl Acrylate	D		B	B	B	D	D	D	B	D	A		
Methyl Acetone		A		D	D	A	D			B	A	A	
Methyl Bromide	C	C	D	D	A	A	D			D	A	A	
Methyl Butyl Ketone	D	D	A	D	D	D	D	D	A	C	A	A	B
Methyl Cellosolve	B	C	B	D	A	D	C	D	B	B	A	A	
Methyl Chloride	D	C	C	B	A	A	D	D	C	D	A	A	B
Methyl Dichloride	D	C		D	D	A	D	D	D	D	A		
Methyl Ethyl Ketone	A	A	B	C	D	D	D	D	A	B	A	A	B
Methyl Isobutyl Ketone	C	A	A	N/A	D	D	D	D	C		A	A	
Methyl Isopropyl Ketone	D	D	D	N/A	N/A	D	D	D	B	C	A	A	
Methyl Methacrylate	D			D	B	D	D	C	D	B	A		
Methylamine	D			D	C	D	D		E	A	A	A	
Methylene Chloride	B	C	C	B	B	B	D	D	D	D	A	B	A
Milk	B	A	E	A	A	A	A	A	E	A	A	A	A
Mineral Oil	A	A	D	A	N/A	A	A	B	D	D	A	A	
Molasses	A	A	E	A	B	A	A		C	A	A	A	A
Motor Oil	C			B	B	A	A		D		A		
Mustard	A	A	A	C	A	D	C	A	A	A	A	A	A
Naptha	C	A	A	A	A	A	C	D	D	C	A	A	B
Napthalene	B	A	A	A	A	A	D	D	D	C	A	B	
Natural Gas	A			B	N/A	A	A	A	D	C	A		
Neon						A	A	A	A		A		
Nickle Chloride	A	C	B	A	A	A	A	A	A	A	A	C	A
Nickle Sulfate	A	A	B	A	A	A	A	A	A	A	A	B	B
Nitric Acid, 5-10%	A	C	B	D	A	A	D	C	D	A	A	A	D
Nitric Acid, 20%	A	D	C	D	A	A	D	D	B	B	A	A	D
Nitric Acid, 50%	D	D	C	D	A	A	D	D	D	C	A	A	D
Nitric Acid (concentrated)	D	D	C	D	A	A	D	D	D	C	A	A	
Nitrobenzene	B	B	C	C	A	B	D	D	D	B	A	A	C
Oil - Aniline	A	A		D	A	C	D	D	B	C	A	A	
Oil - Anise		A		D	N/A						A	A	
Oil - Bay				D	A	A					A	A	
Oil - Bone	A			D	A	A	A				A	A	
Oil - Castor	A	A		A	A	A	A	A	B	B	A	A	
Oil - Cinnamon		A		D	N/A	A				C	A	A	
Oil - Citric		A		A	A	A				C	A		

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CHEMICAL RESITANCE GUIDE

	Plastics					Elastomers						Alloys	
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Oil - Clove		A		N/A	N/A	A	A			C	A	A	
Oil - Cod Liver	A			B	A	A	A	B	A	C	A	A	
Oil - Corn	A	A		A	A	A	A	A	C	D	A	A	
Oil - Cotton Seed	A	A	C	A	A	A	A	A	C	B	A	A	
Oil - Creosote	C	D	B	D	N/A	A	B	D	D	D	A	B	
Oil - Diesel Fuel	A	A	C	D	A	A	A	D	D	D	A	A	
Oil - Fuel	C	A	C	D	B	A	B	C	D	C	A	A	
Oil - Ginger		A	C	A	A	A	A		A		A	A	
Oil - Hydraulic	D	A		B	A	A	A	C	D	D	A	A	
Oil - Lemon		A	C	D	A	A			D	C	A	A	
Oil - Linseed	A	A		A	A	A	A	A	C	B	A	A	
Oil - Mineral	B	A	C	A	A	A	A	C	D	D	A	A	
Oil - Olive	A	A	B	A	N/A	A	A	D	B	B	A	A	
Oil - Orange		A	A	D	A	A	A	D			A	A	
Oil - Palm		A		A	A	A	A			B	A	A	
Oil - Peanut	D	A		A	A	A	A	A	C	B	A	A	
Oil - Peppermint		A		D	A	A	D			C	A	A	
Oil - Pine	D	A		A	A	A	B	D	A	C	A	A	
Oil - Rape Seed	D			A	A	A	B	D	A	B	A	A	
Oil - Rosin	A	A		N/A	A	A	A			A	A	A	
Oil - Sesame Seed		A	B	D	A	A	A			B	A	A	
Oil - Silicone	A	A		A	A	A	A	C	A	C	A	A	
Oil - Soybean	A	A	A	A	A	A	D	A	C	C	A	A	
Oil - Sperm				D	A	A	A			B	A	A	
Oil - Tanning				D	A	A	A				A	A	
Oil - Turbine	B		C	A	A	A	B	D	D		A	A	
Oleic Acid	A	B	D	A	A	A	B	D	C		A	B	B
Oleum	D	D	A	D	D	A	D	D		D	A	B	B
Oxalic Acid	A	B	A	B	B	A	B	B	A	A	A	B	
Oxygen Gas	A					A	C	B	A		A		
Ozone	C		C	C	A	A	D	A	A	A	A		
Palmitric Acid	A		B	A	A	A	A	D	B	B	A		A
Paraffin	A	A	B	A	A	A	A		D	A	A	A	
Pentane	D	A	D	B	A	A	A	D	D		A	C	B
Perchloroethylene	C	C	D	B	A	A	D	D	D	D	A	A	
Petrolatum	C	D	B	B	A	A	A	C	C		A	A	
Phenols, 10%	B	D	A	B	A	B	D	D	C		A	B	
Phenols, 100%	A	D	B				D	D	D	A	A	A	
Phosgene Gas	C					D	D		A		A		
Phosgene Liquid	D					D	D		A		A		
Phosphoric Acid, < 40%	A	D	B	D	B	A	C	D	B	A	A	A	A

	Plastics					Elastomers					Alloys		
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Phosphoric Acid, > 40%	A	B	A	D	B	A	C	C	B	C	A	B	B
Phosphoric Acid (crude)	B	B	C	D	A	A	C	C	B		A	C	A
Phosphoric Acid (molter)	D			D	D						A		C
Phosphoric Acid Anhydride	A			D	D						A		
Phosphorous Trichloride	C		A	D	A	C	D		C	B	A	A	D
Photographic Developer	A		B	D	N/A	A	A	A	B	A	A	A	
Phthalic Acid	D	B		C	A	A			A		A		B
Phthalic Anhydride	D			C	A	A	C		A		A	B	A
Plating Solutions - Antimony	A			A	A	A	A			A	A	A	
Plating Solutions - Arsenic	A	A		A	A	A	A			A	A	A	
Plating Solutions - Brass	A	A	B	A	B	A	A			A	A	A	
Plating Solutions - Bronze	A	A		A	A	A	A		A	A	A	A	
Plating Solutions - Cadrium	A	C		A	A	A	A			A	A		A
Plating Solutions - Chrome	A	D		D	C	A		D		A	A		
Plating Solutions - Copper	A	C		C	A	A	A			A	A		A
Plating Solutions - Gold	A	A		N/A	N/A	A	A			A	A	A	
Plating Solutions - Indium	A	D		N/A	N/A	A	A			A	A	A	
Plating Solutions - Iron	A	D		N/A	N/A	A	A			A	A	A	A
Plating Solutions - Lead	A	D		N/A	N/A	A	A			A	A		A
Plating Solutions - Nickel	A	C		N/A	N/A	A	A			A	A		A
Plating Solutions - Silver	A	A		N/A	N/A	A	A		A	A	A	A	
Plating Solutions - Tin	A	D		N/A	N/A	A	A			A	A		A
Plating Solutions - Zinc	A	D		N/A	N/A	A	A			A	A		A
Potash	A	A	B	B	A	A	A				A	A	
Potassium Bicarbonate	A	A	A	C	B	A	A			A	A	B	B

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	Plastics					Elastomers					Alloys		
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Potassium Carbonate	A	A	A			A	A			A	A	B	B
Potassium Chlorate	A		A	B	A	A				A	A	B	B
Potassium Chloride	A	B	A	A	A	A	A	A	A	A	A	B	B
Potassium Chromate	A	A	A	C	B	A	A			A	A	B	A
Potassium Cyanide Solutions	A	A	A	C	A	A	A	A	A	A	A	B	B
Potassium Dichromate	A	A	A	A	A	A	A	A	A	A	A	B	B
Potassium Ferrocyanide	A	D	A	N/A	A	A	A				A	B	B
Pottasium Hydroxide	A	B	A	A	A	B	B	C		A	A	B	B
Potassium Iodide	A	C		N/A	A	A	A		A		A		A
Potassium Nitrate	A		B	A	A	B	A	A	A	A	A	B	D
Potassium Perborate	A	B	A	N/A	N/A						A		
Potassium Perchlorate	A		A				A		A		A		
Potassium Permanganate	A		A	A	A	B	A		A	A	A	B	B
Potassium Persulfate	A	D	A				A		A		A		
Potassium Sulfate	A		A	B	A	A	A	A	A	A	A	B	
Potassium Sulfide	A	A	A	N/A	A	A	A	A	A		A	A	
Potassium Thiosulfate		A				A	A				A		
Propane	B			A	A	A	A	D	D	C	A	A	
Propanol		A				A	A		A		A		
Propargyl Alcohol	A		A								A		
Propyl Acetate						D	D	D	B	B	A		
Propylene				N/A	N/A	A	D	D	D	B	A		
Propylene Dichloride	C		C			D	D		D		A		
Propylene Glycol	A		B	B	N/A	A	A		A	A	A	A	B
Pyridine	A	A	B	B	D	D	D	D	B	A	A	A	A
Pyrogalic Acid	A			D	A	A					A	B	B
Rosins	A	A	B	B	N/A	A	A			A	A	A	A
Rum	A	A		A	N/A	A	A		A	A	A	A	
Rust Inhibitors	A			A	N/A	A	A			B	A	A	
Salad Dressing	A	A		A	N/A	A	A			A	A	A	
Sea Water	A	A	A	A	A	A	A	A	A	A	A	A	A
Sewage	A			A	N/A	A	A	B	B	A	A	A	
Shellac (Bleached)	A	A	A	A	N/A		A			A	A	A	
Shellac (Orange)	A	A	A	A	A		A			C	A	A	
Silicic Acid	A		A			A	A				A		
Silicone	A	A				A	A	C	A		A	A	

	Plastics					Elastomers					Alloys		
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FKM	316 stainless steel	Hastelloy
Silver Bromide				C	N/A						A	B	B
Silver Cyanide	A					A			A		A		
Silver Nitrate	A	A	B	A	A	A	B	A	A	A	A	B	B
Silver Salts	A		A			A	A				A	A	
Silver Sulfate	A			A	A	A	C		A	A	A		
Soap Solutions	A	A	B	B	A	A	A	A	A		A	B	B
Sodium Acetate	A	B	B	B	N/A	D	B	D	A	A	A	B	
Sodium Aluminate	A	A	A	A	A	A	A		A	A	A	A	B
Sodium Bicarbonate	A	A	A	B	A	A	B	D	A	A	A	B	B
Sodium Bisulfate	A	A	A	C	A	A	B		A	A	A	B	B
Sodium Bisulfide	A	A	A	N/A	A	A	A	A	A	A	A	B	
Sodium Borate	A	A	A	A	A	A	A	A	A	A	A	B	
Sodium Carbonate	A	B	B	A	A	A	A	A	A	A	A	A	B
Sodium Chlorate	A	D	B	A	A	A			A	A	A	B	
Sodium Chloride	A	A	A	D	A	A	A	A	A	A	A	B	A
Sodium Chromate		D		A	A	A	A			A	A	B	
Sodium Cyanide	A	A	A	N/A	N/A	A	A	A	A		A	A	
Sodium Hydroxide, 20%	A	A	A	A	A	B	B	B	A	A	A	A	A
Sodium Hydroxide, 50%	A	A	A	A	A	B	B	B	A	A	A	B	A
Sodium Hydroxide, 80%	A		B	D	A	B	B		A		A		B
Sodium Hypochlorite, < 20%	B	D	A	D	A	A	B	B	B		A	C	
Sodium Hypochlorite, 100%	B	D	B	D	A	A	B	B	B		A		
Sodium Hyposulfate				N/A	N/A						A	A	
Sodium Metaphosphate	A	A	A	B	A	A	A		A		A	A	
Sodium Metasilicate	A			D	N/A	A	A		A	A	A	A	A
Sodium Nitrate	A	A	A	A	A	A	B	D	A	A	A	B	B
Sodium Perborate	A	B	A	B	N/A	A	B	B	A	A	A	B	B
Sodium Peroxide	B	A	A	D	A	A	B	D	A	B	A	A	C
Sodium Phosphate Alkaline	A	A				A	A		A		A		B
Sodium Phosphate Neutral	A	A		B	A	A	A		A	A	A		B
Sodium Polyphosphate	A	A	A	C	A	A	A	D	A	A	A	B	
Sodium Silicate	A	A	A	B	A	A	A		A	A	A	A	C
Sodium Sulfate	A	A	A	B	A	A	A	A	A	A	A	B	B
Sodium Sulfide	A	A	A	N/A	A	A	A	A	A	A	A	B	B
Sodium Sulfite	A	D	B			A	A	A	A		A	B	D

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CHEMICAL RESISTANCE GUIDE

	Plastics					Elastomers						Alloys	
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Sodium Tetraborate		A	A	B	N/A	A	A			A	A	A	
Sodium Thiocyanate			A			A		A	D		A		
Sodium Thiosulfate	A	B	A	C	A	A	B		A	A	A	A	
Sorghum		A		A	N/A	A	A			A	A	A	
Soy Sauce		A		A	N/A	A	A			A	A	A	
Soybean Oil			A			A			A	C	A	A	
Stannic Chloride	A	B	A	C	A	A	A	B	A	A	A	D	B
Stannic Fluoborate				C	N/A	A	A				A	A	
Stannous Chloride	A	C	B	N/A	A	A	A	B	B	B	A	A	B
Starch	A	A	B	A	N/A	A	C		A	A	A	A	
Stearic Acid	A	A	B	A	A	A	B	B	C	A	A	A	C
Stoddard Solvent	C	A	C	A	A	A	A	D	D	D	A	A	
Styrene		A		A	N/A	C	D	D	D	C	A	A	
Sugar (liquids)	A	A		A	N/A	A	A	A	A	A	A	A	B
Sulfate Liquors	A	B	A	D	A	A	A		A	A	A	B	B
Sulfur	D	A	B			A	C		C	A	A		
Sulfur Chloride	C	A	C	D	A	A	D	C	D	D	A	D	A
Sulfur Dioxide (dry)	A	B	A	B	A	A	D	B	A	A	A	A	B
Sulfur Dioxide (wet)	A	C	B	B	A	A	D	B	A	A	A	A	D
Sulfur Trioxide	D	A	C	N/A	N/A	A	D	B	C	D	A	A	
Sulfuric Acid (to 10%)	A	C	A	D	A	A	D	D	B	A	A	B	C
Sulfuric Acid (10-75%)	A	D	A	D	A	A	D	D	B	A	A	D	C
Sulfuric Acid (75-95%)	C	D	B	N/A	A	A	D	D	A	A	A	D	C
Sulfuric Acid (95-100%)	C	D	B	N/A	A	A	D	D	D	B	A	D	A
Sulfurous Acid	A	D	B	C	A	A	B	D	B		A	C	C
Syrup	A					A	A			A	A	A	
Tallow	A	A	C	A	N/A	A	A			B	A	A	
Tannic Acid	A	C	B	B	B	A	A	B	A		A	A	B
Tanning Liquors	A	A	A	B	N/A	A	A		B		A	A	B
Tartaric Acid	A	B	A	B	B	A	A	A	B	A	A	C	B
Tetrachlorethane	C	C		A	A	A	D	D			A	A	
Tetrahydrofuran	C	A	C	A	B	D	D	B	D	B	A	A	B
Toluene, Tuluol	C	A	C	C	A	A	D	D	B	D	A	A	A
Tomato Juice	A	A	A	B	A		A		D	A	A	A	A
Trichloroethane	C	C		A	A	A	D	D	D	D	A	A	
Trichloroethylene	C	C	C	D	B	A	C	D	D	D	A	B	B
Trichloropropane				A	N/A	A	A			D	A	A	A
Tricresylphosphate	A	A	B	C	D	B	D	C	A		A	A	

	Plastics					Elastomers						Alloys	
	Polypropylene	Nylon	Polyethylene	Acetal Copolymer	Kynar	FKM	Buna	Silicone	EPDM	EP/PP blend	FFKM	316 stainless steel	Hastelloy
Triethylamine	D	A		D	A	A	A		A	D	A	A	
Turpentine	B	A	C	A	A	A	A	D	D	D	A	A	B
Urine	A	A	A	A	A	A	A		A	A	A	A	
Varnish	A	C	C	A	N/A	A	B	D	D	D	A	A	A
Vegetable Juice		A		A	N/A	A	C			A	A	C	
Vinegar	A	C	B	B	B	A	B	A	A	A	A	A	B
Vinyl Acetate				N/A	A	D	D		B	B	A		
Vinyl Chloride		A		N/A	B	A	D		C		A		A
Water, Acid Mine	A	B	A	A	A	A	A	B	A	A	A	A	A
Water, Deionized	A		A	N/A	A	A	A		A	A	A	A	B
Water, Distilled	A	A	A	B	A	A	A		A	A	A	A	A
Water, Fresh	A	A	A	A	A	A	A	B	A	A	A	A	A
Water, Salt	A	A	A	A	A	A	A		A	A	A	A	A
Weed Killers		A		A	N/A	A	B				A	A	
Whey				A	N/A	A	A		A	A	A	A	
Whiskey & Wines	A	A		A	A		A	A	A	A	A	A	
Xylene	C	A	C	A	A	B	D	D	D	D	A	A	B
Xylol	D					A	C	D	D	D	A		
Yeast	A		A			A	A				A		
Zeolite						A	A		B	A	A		
Zinc Acetate	A					C	B		A	A	A	B	
Zinc Chloride	A	C	A	C	A	A	A	D	A	A	A	C	B
Zinc Hydrosulphite		A		C	N/A		A		A	A	A	A	
Zinc Sulfate	A	C	B	C	A	A	A	A	A	A	A	A	B
Zirlite	A		B	C	A	C	B		A		A		

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TROUBLESHOOTING CHARTS FOR DIAPHRAGM PUMPS

TROUBLESHOOTING CHART - Electric Pumps

Failure to prime – motor operates, but no pump discharge

- Restricted intake or discharge line. Open all line valves, check for 'jammed' check valves, and clean clogged lines.
- Air leak in intake line.
- Punctured pump diaphragm.
- Defective pump check valves.
- Crack in pump housing.
- Debris in check valves.
- Missing or damaged o-ring of control valve chamber.
- Pinched/kinked hose.
- Damaged inlet or outlet check valve.

Motor fails to turn on

- Pump or equipment not plugged in electrically.
- Loose wiring connection.
- Pressure switch failure.
- Defective motor or rectifier.
- Frozen cam/bearing.

Pump fails to turn off after discharge valves are closed

- Depletion of available liquid supply.
- Punctured pump diaphragm.
- Discharge line leak.
- Defective pressure switch.
- Insufficient voltage to pump.
- Debris in check valves.

Low flow and pressure

- Defective check valves (most cases).
- Air leak at pump intake.
- Accumulation of debris inside pump and plumbing.
- Worn pump bearing (excessive noise).
- Punctured pump diaphragm.
- Defective rectifier or motor.
- Insufficient voltage to pump.

Pulsating flow – pump cycling on and off

- Restricted pump delivery. Check discharge lines, fittings, valves and spray nozzles for clogging or undersizing.
- Consider installing Accumulator Tank on pump discharge line.

Caution: Most pumps have thermal overload protected motors. The motor will automatically shut off as temperature rises due to an overload condition. If the motor shuts off in this manner, close all nozzles, faucets or valves. After a cooling off period, the pump will automatically re-start.

TROUBLESHOOTING CHART – Air Operated Diaphragm Pumps

Symptom	Possible Cause(s)	Corrective Action
Pump will not start (stalls)	1. Inadequate air supply (20 PSI Min.) 2. Contaminated air supply 3. Ruptured diaphragm 4. Check shuttle valve for wear	1. Increase air inlet pressure 2. An air dryer might be required 3. Replace diaphragm 4. Replace shuttle valve if necessary
Pump runs, but no fluid	1. A leak or break in the product inlet line 2. A leak or break in the product discharge line	1. Replace product line 2. Replace product line
Pump leaks through exhaust port	1. Leak at upper exhaust port o-ring 2. Shaft seal o-rings damaged or worn 3. Inadequate slide lubrication	1. Replace exhaust port 2. Replace shaft seal o-rings 3. Replace with shuttle valve kit
Flow rate is low	1. Tubing or hose is damaged or blocked 2. Check viscosity of medium being pumped 3. Check valves not seated correctly	1. Clean or replace 2. Reduce viscosity of medium, increase hose diameter or contact factory for recommendation 3. Reinstall check valves
Pump leaks	1. Ruptured or worn out diaphragm 2. Pump housing screws not torqued adequately	1. Replace diaphragm 2. Torque screws to 20 in lb

**DO NOT USE TO PUMP FLAMMABLE FLUIDS, GASOLINE, KEROSENE, OR ANY FUEL OIL.
DO NOT USE PUMP IN AN EXPLOSIVE ENVIRONMENT.**

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