AUSSIE SMART PUMPS FOR SMART FARMERS

CHEMICAL COMPATIBILITY CHART

Self Priming Centrifugal Pumps

Key to **product symbols** used in chart heading;

B	Bearing housing (on pedestal model centrifugal pumps), adapter plate (between pump & electric motor on centrifugal pumps close coupled to electric motors)
F	Fasteners, wetted
H	Housing
I	Impeller
O	O-rings, check valve, shaft seal bellows
R	Pump shaft sleeve
S	Shaft seal
U	Discharge hose
V	Volute
S	Indicates that entire part is constructed of that material.

NOTE: Materials of construction listed for various parts or pumps are those which are available. Materials listed are not necessarily standard.

RSE series (black) = polyester (FRP)

SPR series (grey) = polypropylene (FRP)

ISP series = stainless steel body, polyester internals

ISY series = stainless steel body, Ryton internals

Consult the factory for chemical applications involving temperatures greater than 26°C.

NOTE: The following Chemical Compatibility Chart is only to be used as a guide to selecting the proper pump for your specific application.

To the best of our knowledge, the information contained herein is correct. However, we do not assume any liability whatsoever for the accuracy or inaccuracy, or the completeness, or incompleteness, of the information contained herein.

Final determination of the suitability of any information or material for the use intended, or the manner of use, is the sole responsibility of the user.

RSE series

SPR series

ISP/ISY series

Aussie Pumps

AUSTRALIAN PUMP INDUSTRIES PTY LTD
02 8865 3500 | aussiepumps.com.au

Aussie Smart Pump Chemical Compatibility Chart

A - Recommended C - Not recommended X - Insufficient data F - Consult factory PRODUCT	Plastics					Elastomers			Metals			Mech seals		
	Ryton (FRP)**	Polyester (FRP)**	Polypropylene (FRP)**	Noryl (FRP)**	HALAR	Buna-N	EPDM	Viton	Hastelloy C	Titanium	316 Stainless Steel	Carbon	Ceramic	Siliconized Graphite
Self priming centrifugal	H,I,V	H,I,V	H,U	B		O	O	O	S,F	F,R	S,F,R	S	S	S
Elbows			X											
CHEMICAL														
ACETALDEHYDE	A	A	C	X	A	C	A	C	A	A	A	A	A	A
ACETIC ACID, 20%	A	A	A	A	A	A	A	C	A	A	A	A	A	A
ACETIC ACID, 50%	A	C	X	A	A	A	A	C	A	A	A	A	A	A
ACETIC ACID, Glacial	A	C	X	A	A	C	A	C	A	A	A	A	A	A
ACETIC ANHYDRIDE	A	C	A	C	A*	C	A	C	A	A	A	A	A	A
ACETONE	A	C	A	X	A	C	A	C	A	A	A	A	A	A
ALCOHOL, AMYL	A	A*	C	A	A	A	A	A	A	A	A	A	A	A
ALCOHOL, ETHYL	A	A	A	A	A	A	A	A	A	X	A	A	A	A
ALCOHOL, ISOPROPYL	A	C	A	A	A	C	A	A	A	A	A	A	A	A
ALCOHOL, METHYL	A	A	A	X	A*	A	A	C	A	A	A	A	A	A
ALCOHOL, PROPYL	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ALUMINIUM CHLORIDE	A	C	A	A	A	A	A	A	A	C	C	A	A	A
ALUMINIUM FLUORIDE	A	C	X	A	A	A	A	A	A	C	C	A	X	A
ALUMINIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIA 30% COLD	A	C	A	A	A	A	A	C	A	A	A	A	A	A
AMMONIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIUM HYDROXIDE "NOTE 1"	A	C	A	A	A	C	A	C	A*	A	A*	A	A	A
AMMONIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIUM PERSULFATE	A	A	X	A	A	C	A	A	A	X	A*	A	A	A
AMMONIUM PHOSPHATE	A	A	X	A	A	A	A	A	A	A	A	A	A	A
AMMONIUM SULFATE	A	A	A	A	A	A	A	C	A	A	A*	A	A	A
AMYL ACETATE	A	A	C	C	A	C	A	C	A	A	A	A	A	A
AMYL CHLORIDE	A	A	X	C	A	X	X	A	A	X	A*	A	A	A
ANILINE	A	C	C	C	A*	C	A	C	A	A	A	A	A	A
AQUA REGIA	X	C	X	C	A	C	X	A*	A	A	C	C	A	C
ARSENIC ACID	A	C	A	A	A	A	A	A	X	X	A	A	A	A
BARIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A*	A	A	A
BARIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
BEER	A	A	X	A	A	C	A	A	A	A	A	A	A	A
BENZALDEHYDE	C	A	A	C	A*	C	A	C	A	A	A	A	A	A
BENZENE (BENZOL)	A*	A*	C	C	A	C	C	A	A	A	A	A	A	A
BENZOIC ACID	A	A	A	A	A	C	X	A	A	A*	A	A	A	A
BORAX (SODIUM BORATE)	A	A	A	A	A	A	A	A	A	X	A	A	A	A
BORIC ACID	A	A	X	A	A	A	A	A	A	A	A	X	A	A
BROMINE WATER	C	C	C	A	A	C	C	A	A	A	C	C	A	A
BUTYL ACETATE	A	A	A	C	A	X	A	C	A	X	A	A	A	A
BUTYRIC ACID	A*	C	X	A	A	C	A	A	A	A*	A	A	A	A
CALCIUM BISULFITE	A	C	X	A	A	A	C	A	A	A*	A	A	A	A
CALCIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A*	A	A	A
CALCIUM HYPOCHLORITE 20%	A	A	X	A	A	A	A	A	A	A	A*	A	A	A
CALCIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
CARBON TETRACHLORIDE	A*	A*	C	C	A	C	C	A	A	A	A	A	A	A
CARBONIC ACID	A	A	A	A	A	A	A	A	A	X	A	A	A	A
CHLOROACETIC ACID	A	C	X	C	A	C	A	C	A	A	C	A	A	A
CHLORINE WATER	C	C	X	A	A	C	A	A	A	A	C	A	A	A
CHLOROBENZENE	A	C	C	C	A	C	C	A	A	X	A	A	A	A
CHLOROFORM (WET)	A	A*	A	C	A	C	C	A	A	A	A	A	A	A
CHLOROSULFONIC ACID	C	C	A	X	A*	C	C	C	A	A	C	C	A	A
CHROMIC ACID 10%	A	C	A	A	A	C	C	A	A	A	A	A*	A	A
CHROMIC ACID, 50%	A*	C	A	C	A	C	C	A	A	A	C	A*	A	A
CHROMIC ACID, 80%	A*	C	A	C	A	C	C	A	A	A	C	A*	A	A
CITRIC ACID	A	A	A	A	A	C	A	A	A	A	A	A	A	A
COPPER CHLORIDE	A	C	A	A	A	A	A	A	A	A	C	A*	A	A
COPPER CYANIDE	A	C	A	A	A	A	A	A	A	A	A	A	A	A
COPPER NITRATE	A	A	A	A	A	A	X	A	A	A	A	A	A	A
COPPER SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A

* For use in applications where the temperature does not exceed 80°F

** FRP = Fibreglass Reinforced Plastic

Aussie Smart Pump Chemical Compatibility Chart

A - Recommended C - Not recommended X - Insufficient data F - Consult factory PRODUCT	Plastics					Elastomers			Metals			Mech seals		
	Ryton (FRP)**	Polyester (FRP)**	Polypropylene (FRP)**	Noryl (FRP)**	HALAR	Buna-N	EPDM	Viton	Hastelloy C	Titanium	316 Stainless Steel	Carbon	Ceramic	Siliconized Graphite
CRESYLIC ACID	X	A	C	X	A	A	C	A	A	A	A	A	A	A
ETHYL ACETATE	A	A	A*	C	A	X	A	C	A	X	A	A	A	A
ETHYL CHLORIDE	A	C	C	C	A	A	A	A	A	A	A	A	A	A
ETHYLENE GLYCOL	A	A	A	A	A	A	A	A	A	X	A	A	A	A
FATTY ACIDS	X	A	A	A	A	A	C	A	A	A	A	A	A	A
FERRIC CHLORIDE	A	C	A	A	A	A	A	A	A*	A	C	C	A	A
FERRIC NITRATE	A	A*	A	A	A	A	A	A	A	A	A	A	A	A
FERRIC SULFATE	A	A*	A	A	A	A	A	A	A	A	A	A	A	A
FERROUS CHLORIDE	A	A	A	A	A	X	A	A	A	A	C	A	A	A
FERROUS SULFATE	A	A	A	A	A	X	A	A	A	A	A	A	A	A
FLUBORIC ACID	A	A*	A	A	A	A	A	A	A	C	A	A	A	A
FLUOSILICIC ACID	A	X	A	A	A	A	A	A	A	C	A*	A	C	A
FORMALDEHYDE, 40%	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FORMIC ACID	A	C	A	A	A	A*	A*	C	A	A	C	A	A	A
FREON 11 (REFR.) (MF)	A*	A*	C	C	A	A*	C	A*	X	X	C	A	A	A
FREON 12 (WET)	A*	A	A	C	A	A	A*	A*	X	X	C	A	A	A
FREON 22 (REFR.) (TMS)	A*	A*	C	C	A	C	C	C	X	X	A*	A	A	A
FREON 113 (REFR)	A*	A*	C	C	A	A*	C	F	A	A	A*	A	A	A
FREON TF (SOLV)	A*	A*	C	C	A	A*	C	F	A	A	A	A	A	A
FREON TMC (SOLV)	A*	C	C	C	A	C	C	A*	A	X	A	A	A	A
FUEL OILS	A	A	C	C	A	A	C	A	A	A	A	A	A	A
FURFURAL	A	A	C	C	A	C	A	C	A	X	A	A	A	A
GASOLINE	A	A	C	C	A	A	C	A	A	C	A	A	A	A
GLYCERINE (GLYCEROL)	A	A	A	X	A	A	A	A	A	A	A	A	A	A
HEPTANE	A	A	C	C	A	A	C	A	A	X	A	A	A	A
HEXANE	A	A	C	C	A	A	C	A	A	X	A	A	A	A
HYDROBROMIC ACID, 50%	A	C	A	A	A	A	A	A	A*	A	C	A	A*	A
HYDROCHLORIC ACID, 0-20 %	A	A	A	A	A	A*	A	A	A*	C	C	A	A*	A
HYDROCHLORIC ACID, 20 %+	A	C	A	A	A	C	A	A	A*	C	C	A	A*	A
HYDROCYANIC ACID	X	A	A	A	A	A*	A	A	A	X	A	A	A*	A
HYDROFLUORIC ACID, 10%	C	C	C	C	A	X	X	A	A	X	C	C	C	A
HYDROFLUORIC ACID, 30%	C	C	C	C	A	C	A	A	A	X	C	C	C	A
HYDROFLUORIC ACID, 60%	C	C	C	C	A	C	A	A	A	C	C	C	C	A
HYDROFLUOSILICIC ACID 20%	A	C	A	A	A	A	A	A	A	C	A	X	C	A
HYDROGEN PEROXIDE, 30%	A*	C	A	X	A	C	A*	A	A	A	A*	A	X	A
HYDROGEN PEROXIDE, 50%	C	C	X	X	A	C	A*	A	A	X	A*	A	X	A
HYDROGEN PEROXIDE, 90%	X	C	X	X	A	C	A*	A*	A	X	A*	A	X	A
HYDROGEN SULFIDE, AQ. SOL.	A	A	A	A	A	C	A	C	A	A	A	A	X	A
IODINE (In Alcohol)	C	C	A*	A	A	C	X	A	A	C	C	A	A	A
KEROSENE	A	A	C	C	A	A	C	A	A	A	A	A	A	A
KETONES	A	A	A*	C	A	C	A	C	A	A	A	A	A	A
LACQUER THINNERS	X	C	C	C	A	C	C	C	A	A	A	A	A	A
LACTIC ACID	A	A*	A	A	A	A	A	A	A	A	A	A	A	A
LEAD ACETATE	A	A	A	A	A	A*	A	A	A	A	A	A	A	A
LUBRICATING OIL	A	A	A*	X	A	A	C	A	A	A	A	A	A	A
MAGNESIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A*	A	A	A
MAGNESIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MAGNESIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MALEIC ACID	X	A	A	X	A	X	C	A	A	A	A	A	A	A
METHYL CHLORIDE	A*	C	C	C	A	C	A	C	A	A	A	A	A	A
METHYL ETHYL KETONE	A	A	A*	C	A	C	A	C	A	A	A	A	A	A
METHYL ISOBUTYL KETONE	A	A	A*	C	A	C	C	C	A	A	A	A	A	A
METHYLENE CHLORIDE	A*	C	C	C	C	C	C	C	A	A	A	A	A	A
NAPHTHA	A	A	A	X	A	A	C	A	A	A	A	A	A	A
NAPHTHALENE	A	A	C	X	A	C	C	A	A	A	A	A	A	A
NICKEL CHLORIDE	A	C	A	A	A	A	A	A	A	A	A	A	A	A
NICKEL SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
NITRIC ACID, 10%	A	A*	A	A	A	C	A	A	A	A	A	A*	A	A
NITRIC ACID, 20%	A	C	A	A	A	C	A	A	A	A	A	A*	A	A

* For use in applications where the temperature does not exceed 80°F

** FRP = Fibreglass Reinforced Plastic

Aussie Smart Pump Chemical Compatibility Chart

A - Recommended
C - Not recommended
X - Insufficient data
F - Consult factory

PRODUCT	Plastics					Elastomers			Metals			Mech seals		
	Ryton (FRP)**	Polyester (FRP)**	Polypropylene (FRP)**	Noryl (FRP)**	HALAR	Buna-N	EPDM	Viton	Hastelloy C	Titanium	316 Stainless Steel	Carbon	Ceramic	Siliconized Graphite
NITRIC ACID, 40%	A*	C	A*	C	A	C	C	A	A	A	A	C	A	A
NITRIC ACID, ANHYDR.	C	C	C	C	A	C	C	C	A	A	A*	C	A	C
NITRO BENZENE	A	A	A	C	A	C	C	C	A	A	A	A	A	A
OIL AND FATS	A	A	A	C	A	A	C	A	A	A	A	A	A	A
OLEIC ACID	A	A	A*	A	A	A	C	A*	A	X	A	A	A	A
OLEUM	A*	C	C	C	A	C	C	A	A	X	A	A	A	A
OXALIC ACID	A	C	A	A	A	A*	A	A	A	A*	A*	A	A	A
PERCHLOROETHYLENE	A*	A*	C	C	A	C	C	A	A	A	A	A	A	A
PHENOL	A	C	A	C	A	C	C	A	A	A	A	A	A	A
PHOSPHORIC ACID, 0-80%	A	A*	A	A	A	A*	A	A	A	A*	A	A	A	A
PHOSPHORIC ACID, 80 - 100%	A	A*	A	A	A	C	A	A	A	A*	A	A	A	A
POTASSIUM BICARBONATE	X	A	A	A	A	A	X	A	A	A	A	A	A	A
POTASSIUM BROMIDE	A	A	A	A	A	A	X	A	A	A	A	A	A	A
POTASSIUM CARBONATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM CHLORATE	A	A	A	A	A	A	A	A	X	A	A	A	A	A
POTASSIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM CYANIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM DICHROMATE	A	C	A	A	A	A	A	A	A	A	A	C	A	A*
POTASSIUM HYDROXIDE	A	C	A	A	A	A	A	C	A	A*	A	X	A	A
POTASSIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM PERMANGANATE	A	C	A	A	A	A	X	A	A	A	A	A	A	A
POTASSIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SOAPS (NEUTRAL)	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM ACETATE	A	A	A	A	A	C	A	C	A	A	A	A	A	A
SOLIUM BICARBONATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM BISULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM BISULFITE	X	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CARBONATE, 10%	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CHLORATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CYANIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM HYDROXIDE, 20%	A	C	A	A	A	A*	A	C	A	A	A	A	C	A
SODIUM HYDROXIDE, 50%	A	C	A	A	A	A*	A	C	A	A	A	A	C	A
SODIUM HYPOCHLORITE	A	C	A*	A	A	C	A	A*	A	A	C	C	C	A
SODIUM NITRATE	A	A	A	A	A	A*	A	A	A	A	A	A	A	A
SODIUM SILICATE	A	A	A	A	A	A	A	A	A	X	A	A	A	A
SODIUM SULFATE	A	A	A	A	A	A	A	A	A	X	A	A	A	A
SODIUM SULFIDE	A	A	A	A	A	C	A	A	A	A	A	A	A	A
STANNIC CHLORIDE	A	C	A	A	A	A	A*	A	A	A	C	A	A	A
STEARIC ACID	X	A*	A*	X	A	A	A	A	A	A	A	A	A	A
STODDARDS SOLVENT	A	A	X	C	A	A	C	A	A	A	A	A	X	A
SULFURIC ACID 0-29%	A	A*	A	A	A	C	A*	A	A	A*	A*	A	A	A
SULFURIC ACID 30-90%	A*	C	A	A	A	C	C	A	A	C	C	A	A	A
SULFURIC ACID 91-100%	A*	C	A	A	A	C	C	A*	A	C	F	X	A	A*
TANNIC ACID	A	C	A	X	A	C	A	A	A	A	A	A	A	A
TANNING LIQUORS	X	X	A	X	A	A	A	A	A	A	A	A	A	A
TARTARIC ACID	A	A	A	A	A	C	A	A	A	A	A	A	A	A
TETRACHLOROETHANE	X	C	C	C	X	C	C	A	A	A*	A	A	A	A
TETRAHYDROFURANE	A	A*	A	C	C	C	C	C	A	X	A	A	A	A
TOLUENE (TOLUOL)	A	C	A	C	A	C	C	A	A	A	A	A	A	A
(I,I,I) TRICHLOROETHANE	A	C	A	C	X	C	C	A	A	A	A	A	A	A
TRICHLOROETHYLENE	A	C	A	C	A	C	C	A	A	A	A	A	A	A
TRICRESYLPHOSPHATE	X	X	X	X	C	C	A	A	A	X	A	A	A	A
TURPENTINE	A	A	C	X	A	A	C	A	A	X	A	A	A	A
UREA	A	C	A	A	A	C	A	A	A	A	A	A	A	A
VINEGAR	A	A	A	A	A	C	A	C	A	A	A	A	A	A
WHITE LIQUOR (ACID)	X	X	X	A	A	A	X	A	A	X	A	X	A	A
XYLENE (SYLOL)	A	C	C	C	A	C	C	A	A	X	A	A	A	A
ZINC CHLORIDE	A	A	A	A	A	A	A	A	A	A	C	A	A	A
ZINC SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A

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