

COMPATIBILITY OF FLUIDS AND MATERIALS

APPLICATION AND SECTORS	PUMP VERSION				CONCENTRATION (%) TEMPERATURE [°C]
	I	G	N	P	
	MECHANICAL SEAL TYPE				
WATER SUPPLY (CLEAN WATER)					
Water systems filtration and transfer; water works distribution and pressure boosting; residential, commercial buildings and industrial processes pressure boosting	E1	E1	E1	E1	100 %; +5 / +120 °C
Firefighting systems	E1	E1	E1	E1	100 %; +5 / +120 °C
Fountains	E1	E1	E1	E1	100 %; +5 / +120 °C
Drinkable water (only version approved for the application)	E1	E1	E1	E1	Models 1-20, Vers. I, N: 85°C Models 30-95, Vers. N: 85°C Models 30-95, Vers. G: 23°C
PRESSURE BOOSTING, TRANSFER AND RECIRCULATION - NON-FLAMMABLE, NON-CORROSIVE LIQUIDS					
Process-water systems (distilled, deionized, ...)	E1	E1	E1	E1	100 %; -25 / +110 °C
Car wash tunnels	E1	E1	E1	E1	100 %; +5 / +100 °C
Boiler feed systems (treated water) and condensate removal	E1	(S)	E1	E1	100 %; -5 / +100 °C
Machine tools (cooling lubricants)	V6	(S)	V6	V6	100 %; -5 / +100 °C
Coolant (Ethylene glycol-water solution)	-	-	E1	E1	max. 30 %; -20 / +120 °C
Coolant (Propylene glycol-water solution)	E1	E1	E1	E1	max. 30 %; -20 / +120 °C
FLAMMABLE AND CORROSIVE LIQUID TRANSFER					
Flammable liquids	-	-	-	-	-
Mineral oils (1)	V4	V4	V4	V4	100 %; -5 / +110 °C
Acid or basic solutions, aggressive liquids:					
Acetic acid	-	-	E1	E1 (P)	max 80%; -10 / +70 °C
Aluminium sulfate	-	-	E2	E2	max 30%; -5 / +50 °C
Ammonia in water	E1	-	E1	E1	max 25%; -20 / +50 °C
Ammonium sulfate	-	-	E2	E2	max 10%; -10 / +60 °C
Benzoic acid	-	-	V4	V4	max 70%; 0 / +70 °C
Brackish water	-	-	-	E1	max 5%; 0 / +40 °C
Brine	-	-	-	E1	max 5%; 0 / +40 °C
Caustic soda	E2	E2	E2	E2	max 25%; 0 / +70 °C
Chloroform	V4	V4	V4	V4	max 100%; -10 / +30 °C
Citric acid	E1	-	E1	E1	max 5%; -10 / +70 °C
Copper sulfate	-	-	V3	V3	max 20%; +0 / +30 °C
Ferrous sulfate and ferric sulfate	-	-	E1	E1	max 10%; +5 / +30 °C
Formic acid	E1	-	E1	E1	max 5%; -15 / +25 °C
Glycerine	E1	E1	E1	E1	max 100%; +20 / +90 °C
Hydrochloric acid	-	-	V3	V3	max 2%; -5 / +25 °C
Nitric acid	V3	-	V3	V3	max 50%; -5 / +30 °C
Perchloroethylene	V4	V4	V4	V4	max 100%; -10 / +30 °C
Phosphates-polyphosphates	V3	-	V3	V3	max 10%; -5 / +90 °C
Phosphoric acid	-	-	E1	E1	max 10%; -5 / +30 °C
Propylene glycol	E1	E1	E1	E1	max 30%; -30 / +120 °C
Sodium hypochlorite	-	-	V3	V3	max 1%; -10 / +25 °C
Sodium nitrate	-	-	E2	E2	max 10%; +5 / +60 °C
Sodium sulfate	E2	E2 (S)	E2	E2 (P)	max 15%; -10 / +40 °C
Sulphuric acid	V3	V3 (S)	V3	V3 (P)	max 2%; -10 / +25 °C
Tannic acid	-	-	E1	E1	max 20%; 0 / +50 °C
Tartaric acid	V3	-	V3	V3	max 50%; -10 / +25 °C
Trichloroethylene	V4	V4	V4	V4	max 100%; -10 / +40 °C

"-" = application not possible

(S) = Not recommended application

(P) = Recommended choice

(1) = Only for temperature < 0.2 times flash point [°C]