

Corrosion resistance: indication of materials used in our products, suitable for contact with chemicals/corrosive fluids

Cautions:

our valves have been designed following the mandatory of Constructive Standards issued by internationally recognized standardization institutes such as EN, ISO, ASTM, UNI, DIN etc. and they are used mainly for industrial applications and for general use.

The behavior of metals and alloys in contact with corrosive fluids is, many times, influenced by causes entirely unusual; consequently it is difficult to draw up a complete list of chemical components and the relative suitability of the materials used for the construction of the plants, also in relation to different concentrations, pressures and temperatures.

This list is supposed to be a guide line -not contractual- for use of our valves; in case of doubt regarding materials is suggested -in place of design-, the advice of skilled persons such as Materials Engineers.

Fluid type	Recommended catalogue figures recommended	Body/bonnet material	Seats material	Gaskets material
Acetaldehyde	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Acetates (solvents)	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Acetic acid	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Aldehydes	105HT-110HT-135HT-140HT	EN-GJL-250	Brass	Fasit 205
Alkali acetates	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Aluminium sulphate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Ammonia	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Ammonium nitrate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Ammonium sulfate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Arsenate hydrogen	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Arsenical water	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Barium (hydroxide)	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Barium chloride	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Barium sulfate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Benzene	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Biogas	125HT-130HT-155HT-160HT-170sx-170sxp	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Brines	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Calcium chloride	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Calcium nitrate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Calcium sulfate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Caliche solutions	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Carbon disulphide	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Cellulose nitrate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Crude oil	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Diesel	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Drinking water	420-430-520	EN-GJS-400-15	Rubber wedge-Epdm	Epdm
Dry freon	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Edible oils	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Emulsions of latex	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Ethane	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Ethyl alcohol	105HT-110HT-135HT-140HT	EN-GJL-250	Brass	Fasit 205
Ethyl sulfate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Food industry	420-430-520	EN-GJS-400-15	Rubber wedge-Epdm	Epdm
Fresh water	105-110-135-140-420-430-520	EN-GJL-250 - EN-GJS-400-15	Brass-Rubber wedge-Epdm	Sbr-Epdm
Fuel oils	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Glucose	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Heptane	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205

Fluid type	Recommended catalogue figures recommended	Body/bonnet material	Seats material	Gaskets material
Hydrocarbons	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Viton 6000
Hydrogen sulfide	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Kerosene	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Liquid gas	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Magnesium oxide	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Magnesium sulfate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Mercury	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Metalicetone	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Methyl acetate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Methyl alcohol	105HT-110HT-135HT-140HT	EN-GJL-250	Brass	Fasit 205
Methyl chloride	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Mineral waters	420-430-520	EN-GJS-400-15	Rubber wedge-Epdm	Epdm
Muddy water and sewage	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Naphthalene	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Natural gas	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Nitrobenzene	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Paraffin	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Peroxide of sodium	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Potassium cyanide	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Potassium nitrate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Potassium permanganate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Resins	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Sea water	105BZ-110BZ-135-140- 420-430-520	EN-GJL-250 - EN-GJS-400-15	Bronze-Rubber wedge-Epdm	Fasit 205-Epdm
Sodium carbonate	105HT-110HT-135HT-140HT	EN-GJL-250	Brass	Fasit 205
Sodium chloride	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Sodium cyanide	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Sodium metaphosphate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Sodium nitrate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Sodium phosphate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Sodium silicate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Sodium sulfate	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Spring water	105-110-135-140-420-430-520	EN-GJL-250 - EN-GJS-400-15	Brass-Rubber wedge-Epdm	Sbr-Epdm
Sulfur	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Sulfur chloride	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Tar	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Thermal waters	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Tomato juice	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Transformer Oil	105IUK 125IR	EN-GJL-250 EN-GJL-250	Brass Stainless steel AISI 304	Fasit 205 Fasit 205
Turpentine	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Vaseline	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Vegetable oils	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Vinegar	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Viscose	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Watery ammonia	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Waxes	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Xilene	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Xylene	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205
Zinc sulphide	125HT-130HT-155HT-160HT-170sx-170sxp-185	EN-GJL-250	Stainless steel AISI 304	Fasit 205