CLARKSON KNIFE GATE VALVES

SEAT MATERIAL

Technical specifications for knife gate seat materials

TECHNICAL SPECIFICATIONS

	Urethane	RTFE	FKM
Formula number:	EM-D1-9	EM-C1-33	EM-D1-6
Typical application:	Abrasive service	General service	High temperature, chemical service
Construction/ composition:	Polyurethane	Polytetrafluoroethylene	Fluorinated hydrocarbon
ASTM designation:	AU, EU		FKM, HK
Standard:	ASTM/BS		
General temperature rating:	Minus 20°C (68°F) to 50°C (122°F) on liquids Minus 20°C (68°F) to 60°C (140°F) on dry service	Minus 30°C (85°F) to 150°C (300°F)	Minus 30°C (85°F) to 150°C (300°F)
pH range:	4 - 10	1 - 9	1 - 9
Color of seat:	Red	Brown	Brown
Suitable for:	Urethane was developed primarily for abrasive service. The combination of mechanical and physical properties such as high load bearing, good cut/tear resistance with flexibility and low co-efficient of friction results in outstanding abrasion resistance	Fuels, oils, hydrocarbon, solvents, hydraulic fluids, chlorinated solvents, aqueous acids and dilute alkaline solutions	Fuels, oils, hydrocarbon, solvents, hydraulic fluids, chlorinated solvents, aqueous acids and dilute alkaline solutions
Not suitable for:	Dry fine powder service and contact with methane	Strong caustic, ammonia, some polar solvents (methyl ethyl ketone) Refer to K-Nife material compatibility technical data sheet for a more detailed media analysis.	Strong caustic, ammonia, some polarsolvents (methyl ethyl ketone) Refer to K-Nife material compatibility technical data sheet for a more detailed media analysis.
Product usage:	F951/F952 K-Nife valves Lined bodies Deflection cones	F951/F952 K-Nife seats	F951/F952 K-Nife seats

NOTES

This information has been derived from published literature from suppliers and manufacturers. It is therefore intended as a guide only in selecting materials for specific sealing applications in our valves.
If in doubt we suggest that customers test seat under operating conditions to determine their suitability.
No warranty is given against deterioration.
Specifications may vary between the actual valve assembly and the material detailed above.
Please refer to the valve literature sheet before making final valve selection.