



KEYSTONE 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 68°F to 122°F on liquids Minus 68°F to 140°F on dry service | Minus 85°F to 300°F | Minus 85°F to 300°F |
| pH range: | 4 - 10 | 1 - 9 | 1 - 9 |
| Colour 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: | F952 K-Nife valves Lined bodies Deflection cones | F952 K-Nife seats | F952 K-Nife seats |

NOTE

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.

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MATERIAL SPECIFICATIONS