



KEYSTONE SLURRY CONTROL VALVES

FIGURE 990

Technical specifications for polyurethane disc stems and seats

TECHNICAL MATERIAL SPECIFICATIONS

Trim code number:	U
Formula number:	EM-D1-15
Common name:	Polyurethane
ASTM:	AU, EU
Color of seat:	Red
General temperature range:	Minus 20°C to +80°C
Abrasion resistance:	Outstanding
Product usage:	F990 seats F990 encapsulated disc stem
Size range:	DN 50 - 300
General notes:	<ul style="list-style-type: none"> • Urethane seat, disc and deflector cone was mainly developed for abrasive mediums. The combinations of mechanical and physical properties such as high load bearing capacities, good cut/tear resistance with flexibility, and low coefficient of friction, results in outstanding abrasion resistance. • For applications which involve pH levels outside the range of 4 to 10 contact a Emerson sales representative.



URETHANE PROPERTY COMPARISON CHART

Property	Natural					
	rubber	Chloroprene	Nitrile	Butyl	Hypalon	Silicon
Tensile	•	•	•	•	•	•
Elongation at high hardness	•	•	•	•	•	•
Abrasion resistance	•	•	•	•	•	•
Resilience	=	=	=	•	=	=
Tear resistance	•	•	•	•	•	•
Cut growth	•	•	•	•	•	•
Compression set	=	•	•	•	•	•
Impact resistance	•	•	•	•	•	•
Load capacity	•	•	•	•	•	•
Weather and ozone resistance	•	•	•	=	=	=
Heat resistance	=	√	=	√	√	√
Low temp flexibility	•	•	•	•	•	=
Electrical properties	=	=	=	=	=	√
Acid resistance	=	=	=	√	√	=
Water resistance	=	•	•	•	•	•
Oil and solvent resistance	•	•	•	•	•	•

NOTES

- Urethane is superior to
- = Urethane is equivalent to
- √ Superior to urethane

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