

# SEAT MATERIAL SELECTION GUIDE

for HIGH PRESSURE CONTROL VALVES

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Trim Material	Hardness Rockwell C	Impact Strength	Corrosion Resistance	Recommended Max Temp *	Erosion Resistance	Abrasion Resistance
<b>D2 Steel</b> Dump valve, control valve, general purpose, average conditions Linear   Snap   EP	55-62	Fair	Fair	800 F	Good	Good
<b>17.4 PH</b> Corrosion Linear   EP	40-47	Good	Excellent	650 F	Good	Good
<b>316 SS</b> Corrosion Snap   Linear   EP	8	Excellent	Excellent	850 F	Fair	Fair
<b>Carbide</b> Abrasive, dump valve Snap	79-81	Excellent	Good	800 F	Excellent	Excellent
<b>Zirconia</b> Abrasive, dump valve Linear   Snap   EP	--	Poor	Fair	1500 F	Excellent	Excellent

Measurements: Excellent, Good, Fair, Poor

\*Note: temperature range may change depending on pressure.