

OPTIMA™ SERIES PLATE VALVES

General Operating Parameters for Common Optima Valve Types



Type	Material	Guide Type	Damper Type	Lube/ Non-Lube	Pressure	Temperature*	Speed	Plate Diameter	Springs	Applications
XLW / XVW	Steel	Frictionless	Frictionless	Both	0–3600 psi 0–250 bar	Cryogenic to 662°F / 350°C	0–1800 rpm	2–10 in 50–250 mm	Coil Closing only or closing and damping	High speed, high temp Air (PET) O ₂ Gas storage Gas lift
XLG / XVG	Steel	Frictionless	None	Both	0–3600 psi 0–250 bar	Cryogenic to 662°F / 350°C	0–1500 rpm	1.5–6 in 40–150 mm	Coil or plate Closing only	Smaller envelope size Air (PET) O ₂ Gas storage Gas lift
XTG	Steel	Central	None	Lube only	0–3600 psi 0–250 bar	Cryogenic to 662°F / 350°C	0–750 rpm	0.5–10 in 10–250 mm	Coil or plate Closing only	High pressure, high temp, heavier spring loads Gas storage Gas lift
XTD	Steel	Central	Central	Lube only	0–3600 psi 0–250 bar	Cryogenic to 662°F / 350°C	0–1500 rpm	2–10 in 50–250 mm	Coil Closing and damping	High pressure, high temp, higher speed Gas storage Gas lift
ZTG	Polymer	Central	None	Both	0–1160 psi 0–80 bar	-35 to 200°C -31 to 392°F	0–750 rpm	0.5–13 in 10–325 mm	Coil or plate Closing only	Lower speed Process Petrochemical
ZTD	Polymer	Central	Central	Both	0–1160 psi 0–80 bar	-35 to 200°C -31 to 392°F	Lube: 0–1500 rpm Non-Lube: 0–500 rpm	2–13 in 50–325 mm	Coil Closing and damping	Gas storage Gas lift Process Petrochemical
ZTW	Polymer	Central	Frictionless	Both	0–1160 psi 0–80 bar	-35 to 200°C -31 to 392°F	0–1800 rpm	2–13 in 50–325 mm	Coil Closing and damping	Lighter gas, high speed Process Petrochemical

*Material dependent