



# MURRAY LATTA PROGRESSIVE MACHINE INC.

## KNIFE GATE VALVES

The Murray-Latta Knife Gate Valve is custom designed for high solids content, large particle abrasive slurry hydro-transport. Our valves have been used in the Alberta Tar Sands in both tailings and extraction applications for over 40 years. The Valves may be suitable for other severe duty applications where the fluid is non-expandable and non-flammable.

**Valves and Control Systems can be Customized to suit specific customer requirements.**



## Benefits

- All valves are Hydrostatically tested before shipment.
- Valve envelope dimensions can often be modified to suit a customer's specific requirements. ANSI end flanges are standard but valves can be supplied with Victaulic or other types of mechanical couplings.
- Valves are supplied with flushing connections.
- The Valves are hydraulically actuated. Electric/hydraulic control units are available as an option.
- Extensive development and testing goes into every aspect of this product, including customization to meet the specific needs of your process and environment.
- Custom designed for use in severe duty hydro-transport applications.
- The valve gate, seat and deflection cone each have chromium carbide weld overlay. The bores of both liners and the deflection cone are fully covered with chrome carbide overlay.
- Abrasion resistant alloy plate with a hardness of 400 BHN is used on the body, gate and the deflection cone.
- The deflection cone, an integral part of the replaceable inlet liner, reduces seat wear and clogging.
- Many dimensions can be customized to suit your requirements.

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## KNIFE GATE VALVES

- Murray-Latta knife gate valves are commonly used for switching, pump isolation, and drain applications.
- For switching applications, valves can be supplied complete with Y fittings. Y fittings can be manufactured from overlaid and/or abrasion resistant steel plate with your choice of outlet angles and end fittings. All Murray-Latta Y fittings have a solid plate with an overlaid leading edge to prevent wear at the crotch.
- Valves can be installed in plants or in remote field locations.
- Valves can be used on vertical, horizontal, or angled pipelines.
- Valves are supplied with certified lifting lugs, and can also be customized to suit your lifting device.
- Optional hydraulic power units are available for both types of locations, and are typically customized to suit your application.



## HYDRAULIC POWER UNITS

### Field hydraulic power units for remotely located valves

- Typically powered by your service vehicle's electrical system.
- Can be mounted on your vehicle, in which case they are supplied complete with hoses and hydraulic quick connect couplings suitable for connecting to your valve's hydraulic actuator.
- Can be mounted on your valve or Y fitting, in which case they are supplied complete with electrical cables and a junction box for tying in to your service vehicle's electrical system.
- Can be supplied with or without accumulators.
- Can be used with or without optional valve limit switches.

### Plant hydraulic power units

- Powered by electric motors which are connected to your plant electrical system and custom designed to interface with your plant's control system.
- Operable in manual or automatic modes.
- Typically come complete with accumulators to allow one or more open/close cycles in "manual mode" after a power failure.
- Can also provide "fail open," "fail closed," or "fail last" behavior, if required.
- Typically used together with optional knife gate valve limit switches so that the hydraulic power unit and your plant control system can determine the knife gate's open/closed state.
- Available with your choice of diagnostic sensors and alarms.

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