



## KTM HINDLE PED - OPERATING AND SAFETY INSTRUCTIONS

### BALL VALVES

Before installation these instructions must be fully read and understood

---

#### STORAGE / PROTECTION / SELECTION

##### Storage

When valves are to be stored for some time before being fitted, storage should be in the original delivery crates with any waterproof lining and/or desiccant remaining in place. Storage should be off the ground in a clean, dry, indoor area. If storage is for a period exceeding six months the desiccant bags (if supplied) should be changed at this interval.

##### Protection

Valves are delivered with protection according to customer's specification, or in accordance with the Quality Assurance Manual, to protect the valve seats and closure member from damage. Wrapping and/or covers should be left in place until immediately before fitting to the pipe.

##### Selection

Ensure the valve's materials of construction and pressure/temperature limits shown on the identification plate are suitable for the process fluid and conditions. If in doubt contact the manufacturer.

---

#### INSTALLATION

##### WARNING

*For safety reasons, it is important to take the following precautions before you start work on the valve:*

- 1. Personnel making any adjustments to the valves should utilize equipment and clothing normally used to work with the process where the valve is installed.*
- 2. The line must be depressurized, drained and vented before installing the valve.*
- 3. Handling and installation of all valves, operators and actuators must be carried out by personnel trained in all aspects of installation and manual/mechanical handling techniques.*

- 4. Ensure the valve pressure/temperature limitations marked on the identification label are above or equal to service conditions.*
- 5. Double seated valves on liquid service, which may be subjected to rapidly increasing temperature in the closed position, will need a positive means for relieving excessive cavity pressures. For further information contact the manufacturer.*

##### Installation

1. On-off valves are bi-directional as standard, unless otherwise stated, and may be fitted in either direction.
2. Installation may be carried out with stem displaced through any angle permitted by the bolting.
3. For certain services (cryogenic, chlorine etc.) and certain valve types (check valves), the valves are designed to be uni-directional, in which case the valve body will be labelled 'High Pressure Side' or 'Flow Direction'.
4. Remove protective covers from valve faces.
5. Ensure that mating flanges and gaskets are clean and undamaged.
6. Should there be any possibility of abrasive particles (weld slag, sand etc.) within the piping system, this could damage valve seating areas. The system will need to be flushed clean.
7. Ensure mating pipe flanges are aligned correctly, bolting should be easily inserted through mating flange holes.
8. Fit the valve into pipework ensuring easy access of the lever/handwheel.
9. Tighten the flange bolts in a diagonal pattern.

# KTM HINDLE PED - OPERATING AND SAFETY INSTRUCTIONS

## BALL VALVES

### OPERATION AND ROUTINE MAINTENANCE

!! Read all warning labels fitted to the valve before operation or maintenance !!

#### Scope

These instructions relate to manual and actuated valves. For special service designs, typically cryogenic and fugitive emissions see separate instructions.

#### Operation

All standard manually operated valves are 'clockwise to close'. The closed position is indicated by either the handle/lever or indicator arrow being at 90° to the pipe/valve bore axis.

#### Routine maintenance

No routine maintenance is required other than periodic inspection to ensure satisfactory operation and sealing.

Any sign of leakage from the gland packing should be addressed immediately by depressurizing the valve and tightening the gland screws gradually and evenly. If no further adjustment is possible, or if seat or joint leakage is suspected, the valve will require a complete overhaul. This should be carried out after depressurisation and in accordance with specific maintenance Instructions. Only original spares should be used.

#### Spare parts

Valves are identified by a figure number, which is stamped on the identification plate, located on the valve body flange. This reference should be quoted in respect of any after sales queries, spare parts or repair enquiries/orders.

KTM HINDLE			PENTAIR			LEEDS ENGLAND		CE 0038
TYPE	CLASS	BODY	SHAFT	BALL	SEAT	SEAT PRESSURE RATING		
'A'	'B'	'C'	316 S.S.	316 S.S.	PTFE	'D'		

TAGPLATE