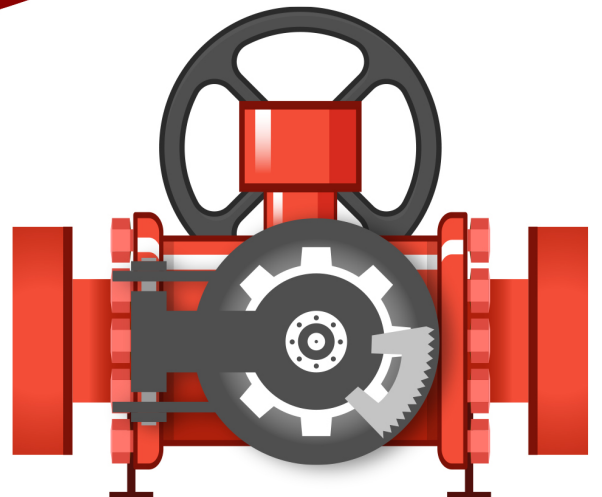




# VKVC PIG VALVES

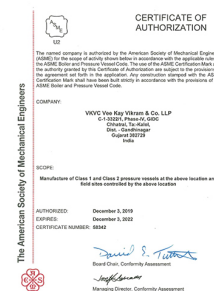
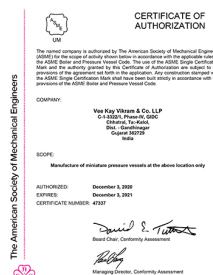
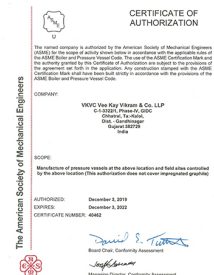




VKVC is one of the world's leading manufacturers of Pipeline Pigging Equipment. Founded in 1969, VKVC has earned a reputation for excellence in the Pipeline Repair and Maintenance industry focusing on innovative, high quality, safe and user friendly products. VKVC has been manufacturing Pigging Products for over 50 years and has held API (American Petroleum Institute) 6D certification since early 2000s.

VKVC understands the importance of valve quality for safety and efficiency. Committed to consistently providing products that meet customer and regulatory specifications VKVC aims to enhance customer satisfaction. Our products are designed, manufactured and tested according to API, ASME and ANSI standards. VKVC Pig Valves comply to the following standards

- API 6D Specification for Pipeline Valves SPEC
- API 6FA Fire Test for Valves STD.
- API 607\* Fire Test for Quarter-turn Valves and Valves Equipped with Nonmetallic Seats STD.
- API 598 Valve Inspection and Testing.
- API SPEC. Q1 Specification for Quality Programs for the Petroleum and Natural Gas Industry.
- ASME B1.20.1 Pipe threads, general purpose.
- ASME B16.5 Pipe flanges & flange fittings.
- ASME B16.10 Face-to-Face & End-to-End dimensions of Valves.
- ASME B16.34 Valves - Flanged, Threaded and Welding End.
- ASME B31.3 Process Piping.
- ISO 9001 Quality Management Systems.
- ISO 14001 Environmental Management Systems.
- NACE MR0175 / ISO 15156 Materials for use in H2S containing environments in oil & gas production.





VKVC Pipeline Pig Valves are an ideal solution for pipelines where space is a constraint. Pig valves substitute the shut-off valves in addition to acting as pig launchers and receivers.

VKVC Pig Valves are provided with ASME 'U' stamped Quick Opening Closures (QOCs). VKVC QOCs are used for quick and safe insertion and removal of pigs from the pipeline.

A by-pass setup may be provided with the pig valve. This bypass setup is ideal for cases where the flow in the pipeline is not to be stopped during valve operation.

Dedicated cleaning pigs are available with metallic and polymer bodies.

Non-intrusive Pig Signals are also available to order along Pig Valves.

#### ADVANTAGES OF VKVC PIG VALVES

- Super space saving
- Reduces downtime
- Forged design – superior to castings
- ASME 'U' stamped QOC
- API 6D design
- Option for Hydraulica operated QOC.
- Manufactured with forged materials to obtain uniform line grain structure and toughness.
- Both soft seated and metal seated options available.
- VKVC Pig Valve is suitable for inspection tools of MFL inspection companies for 8", 10" and 12" presently.





## SAFETY FEATURES OF VKVC PIG VALVES

- Fire safe design – API 6FA, API 607.
- Pressure warning lock provided on the VKVC QOC crucial for sour service.
- Pressure gauge provided with VKVC QOC.
- Inconel 625 weld overlay provided on the seal seating surface if required.
- Anti-blow-out stem.
- Anti-Explosion Decompression Seals.
- Lifting lugs for easy and safe lifting and handling.
- Optional sequential key interlock system.
- Optional padlock arrangement for ball locking.
- Sealant injection ports provision.
- Forged material.

## MATERIAL SPECIFICATION

The VKVC Pig Valve components material can be custom chosen for each individual case depending on the application and operational requirements.

PART	MOST USED MATERIAL OF CONSTRUCTION
QOEC	ASTM A 105, ASTM A 350 LF2
Body	ASTM A 105, ASTM A 350 LF2
Ball	ASTM A 105, ASTM A 350 LF2
Stem	AISI 4140 / ENP
Seats	ASTM A 182 F316
Seals	Viton
Studs	ASTM A 193 B7





The Quick Opening Closure is a very critical component due to the human interaction involved. VKVC QOCs come with ASME 'U' stamp. VKVC QOCs have been installed at over thousand locations throughout the world showing the industry wide trust placed in VKVC QOCs.

There is a significant increase in the pipelines and facilities handling hydrogen sulphide H<sub>2</sub>S bearing hydrocarbons. Thus NACE MR0175/ ISO 15156 standards are an important standard to be followed for equipment where sulphide-induced stress corrosion cracking may be a risk. All VKVC Pig Valves are in conformance with NACE MR 0175 / ISO 15156.

Each VKVC Pig Valve shall be delivered with a unique identification serial number. The end product comes with a complete EN 10204 3.1 material certificate for pressure containing parts and 3.1 certificate of pressure tests.





## VKVC - AN OVERVIEW

- VKVC was established in 1969 by an ex-ONGC petroleum production engineer.
- VKVC Product range include - Pipeline Repair & Maintenance Products like Pig Traps, Filters, Quick Opening Closures, Leak Repair Clamps, Pigs, Casing Insulators, Isolation Joints in addition to Pig Valves.
- VKVC's facility is also licensed by the American Petroleum Institute to use the official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec 6D
- VKVC is located in an industrial manufacturing hub thus enabling long term associations with Oil & Gas approved major vendors.
- With ever increasing demand of equipment to perform in H2S environment, VKVC has strict compliance with NACE MR0175/ ISO 15156.
- VKVC's Quality Management System has been assessed and found to comply with the requirements of ISO 9001:2015 & ISO 14001 :2015
- VKVC is a Member of Pigging Products and Services Association, UK, since 2002.
- VKVC Pig Valves are designed, manufactured and tested under strict quality control to meet and exceed all industry standards to which they are constructed.
- VKVC Pig Valves are fully traceable with chemical, physical and pressure test records





**VKVC Site Photographs of Pig Launcher & Pig Receiver Valves.**

