



INDO GERMAN INDUSTRIES

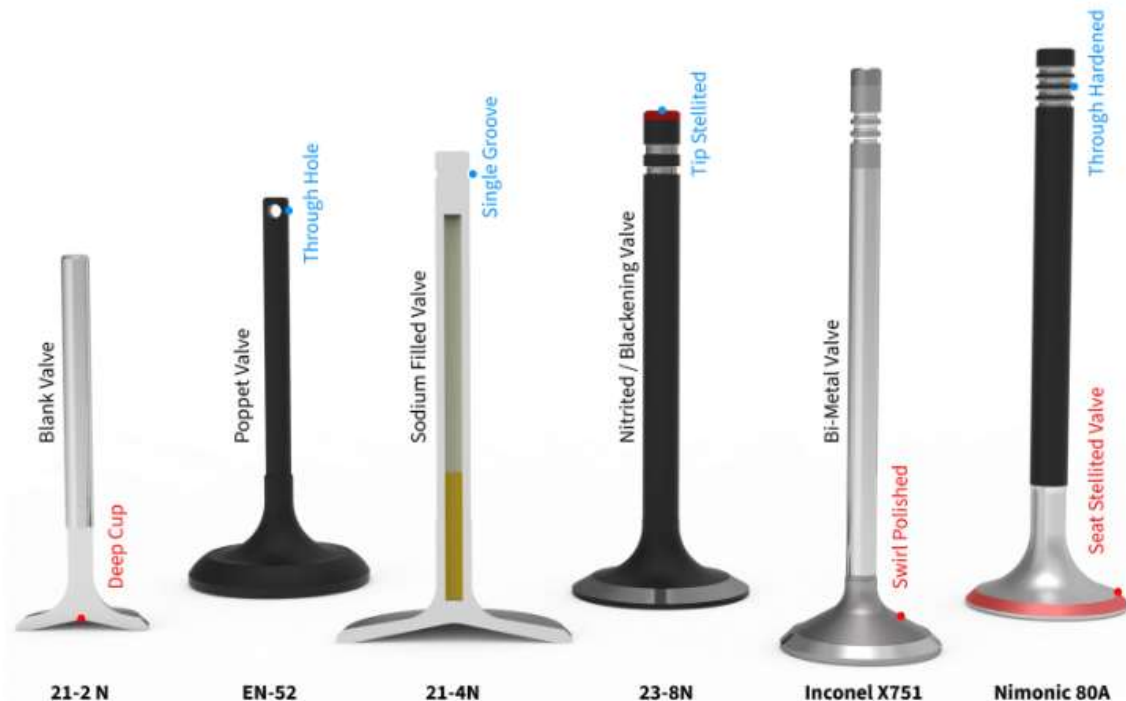
Delivered Performance, EVERY TIME

The highest point of thermal impact is on valve face seat, which is sometimes induction hardened or welded by cobalt alloy for long lasting. To improve its mechanical properties, valves are coated with chromium coating, phosphate coating and nitride coating. For better surface finishing, they are also swirl-polished.

IGI understand that engine valve is a vital component in every single engine, which bear heavy load to offer great performance using different fuels such as gasoline, diesel, kerosene, heavy fuel oil (HFO), dual fuel, marine diesel oil (MDO), compress natural gas (CNG), natural gas and landfill gas. We serve purpose of every client whether it is an engine rebuilder, engine maker, original equipment manufacturer, overhauling company, refurbish or trader. We ensure that every valve produced is quality-checked thoroughly.

Engine Valves

Engine valves are special mechanical component designed to be used in two-stroke and four-stroke internal combustion engines, which controls flow of fluids or gases into and from combustion chambers during operation.



SIMPLIFY THE QUALITY, DETERMINE THE PRODUCT



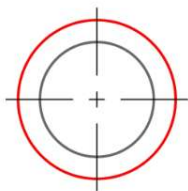
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By function, there are only two types of valves, inlet valve and exhaust valve. Inlet valves allow proper mixture of air and fuel to enter in combustion chamber, while exhaust valve opens to escape gases produced after combustion of air and fuel in chamber. Inlet valve is exposed to low thermal stress, but exhaust valve has to undergo high thermal and mechanical stress due to its operation under high temperature and pressure.

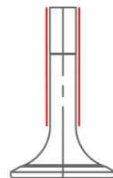
Generally, inlet valves are made of martensitic steel and exhaust valve are made of austenitic steels or high alloy steel. Based on their design, material and application, valves can be monometallic, entirely fabricated from a single metal, or bimetallic, fabricated using a friction welding process to have properties of austenitic head and martensitic stem

Depends on your need

Customized Range



Head 15 to 215 mm

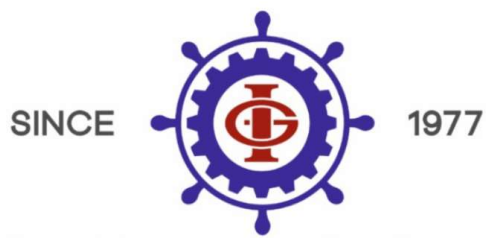


Stem 4 mm to 35 mm



Length 55 mm to 750 mm

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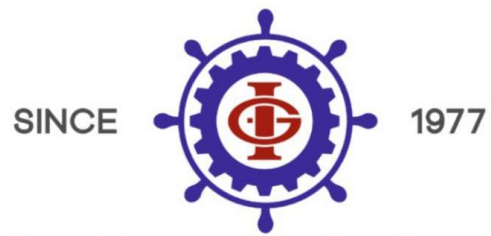
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Friction Weld

Valve

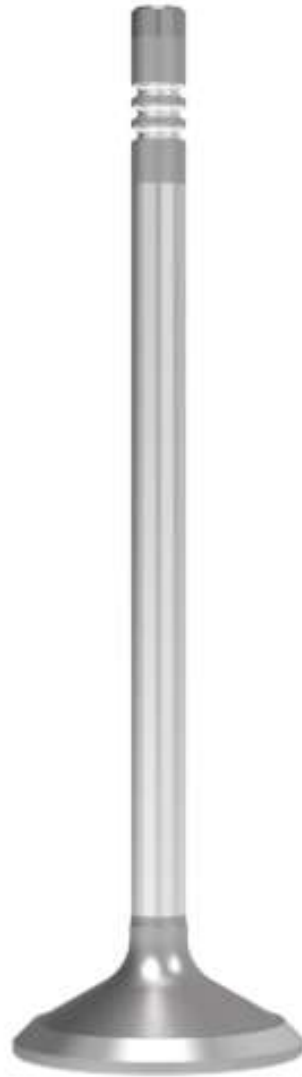


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Hard Chrome
Valve



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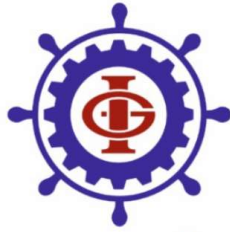
Swirl Finish

Valve



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SINCE



1977

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Phosphate/Nitrite Finish

Valve



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Induction Hardened
Valve



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MonoMetallic
Valve



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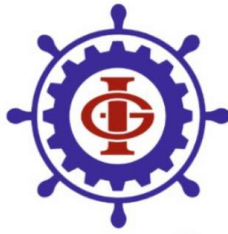
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BiMetallic
Valve



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SINCE



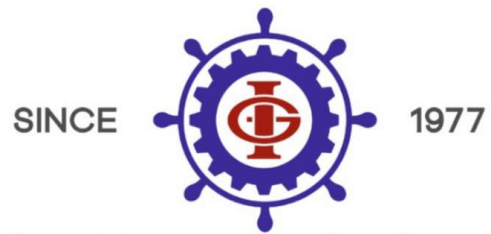
1977

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Inconel X751
Valve



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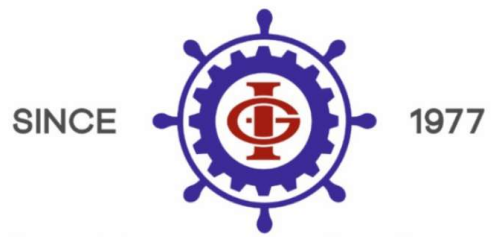


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Nimonic 80A
Valve



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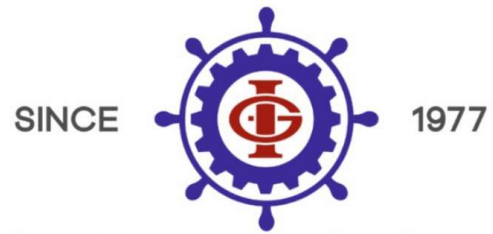


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Titanium
Valve

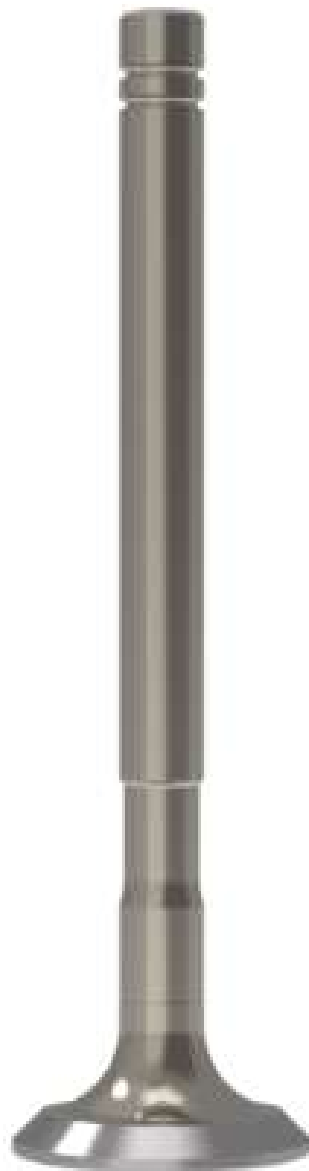


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Tribaloy
Valve



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BUILT FOR
BEST QUALITY



BUILT FOR
PERFORMANCE



BUILT FOR
DURABILITY

Quality and Innovation Since 1977

IMPECCABLE

QUALITY THAT NEVER CHANGE

Quality is integral part of every production process to ensure accuracy of each part. We make 4500+ different versions of valves in our units, with set procedures and supplying over all world with customer satisfaction.

- Standard Operating Procedures (SOP), as per OEs
- Genuine raw materials sourcing
- Online and offline, continuous inspection
- Quality is more than just manufacturing, its habit.

ISO 9001:2015

CERTIFIED COMPANY



SIMPLIFY THE QUALITY, DETERMINE THE PRODUCT



INDO GERMAN INDUSTRIES

Be the future
READY of your industry, **TODAY**

Quality is not just a feature, but the very essence of everything we do.
Dive into a world where excellence is paramount, where every detail is meticulously crafted to deliver unparalleled value



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