

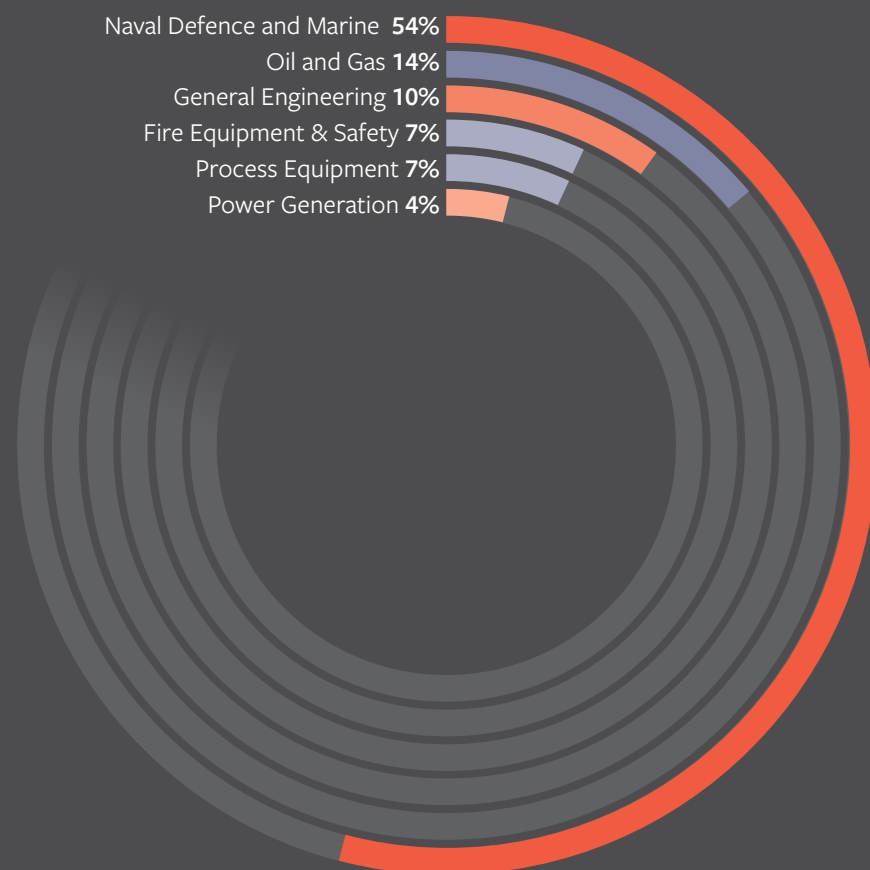
A photograph of a steel mill interior. In the foreground, a worker in a silver heat-reflective suit and helmet stands next to a large ladle containing molten metal. In the background, another worker in similar protective gear is visible. The scene is dimly lit, with the primary light source being the glowing orange-red metal.

Trusted to do

the difficult things

Multiple sector experience

We are a well-capitalised supply chain partner with unrivalled experience for large scale, critical industry projects. Our corporate finance resources and structure enable us to satisfy even the most stringent governance tests, meaning that we are able to contract on a 1st tier basis with large engineering and defence corporations. We have global approvals across all industry sectors.



High-integrity manufacturing for 50+ years

We are the preferred supplier of mission-critical cast and forged products to the UK Royal Navy. Westley Group has a close affiliation with the UK's naval and land-based military programmes in the supply of high-integrity cast and forged products.

For more than 50 years we've been the pre-eminent UK manufacturer for high-integrity finish machined cast components and tight tolerance machining. We are a trusted partner for the supply of submarine propulsor components to Rolls-Royce Submarines, and the key supplier for stringent metalware projects to the other UK Primes.



Our capabilities are increasingly sought by navies around the world (particularly USA), where sovereign supply chains cannot guarantee the necessary product quality.

Products include return end heat exchange headers for the nuclear reactor's main condensing system in submarines, complex and strategic propulsor metalware, and copper and nickel-based alloy propeller tailshaft liners for many of the world's navies.

Featured Products



The PRV9i is a high pressure, end of line valve, whose purpose is to reliably and predictably reduce and regulate pressure for operator safety. We were the world's first manufacturer to introduce an FM-Approved pressure regulating valve of this type.

Every aspect of design, tooling, casting, machining, assembly, testing, painting, certification and serialisation is performed in-house. Supporting safety-critical, high value, capital infrastructure projects for the off-shore and on-shore petrochemical industry, valves are produced in copper-based alloys for maximum corrosion resistance in harsh environments.

The PRV9i was redesigned and modified to create a two-way manifold for critical fire-safety provision in the Crossrail Tunnel project in London. The redesign maximised our metallurgical and sand-casting strengths, providing the ultimate solution in terms of geometry, metallurgy and end application. Tight tolerance CNC machining, exacting assembly and testing were all pivotal to meeting the demanding delivery requirements.

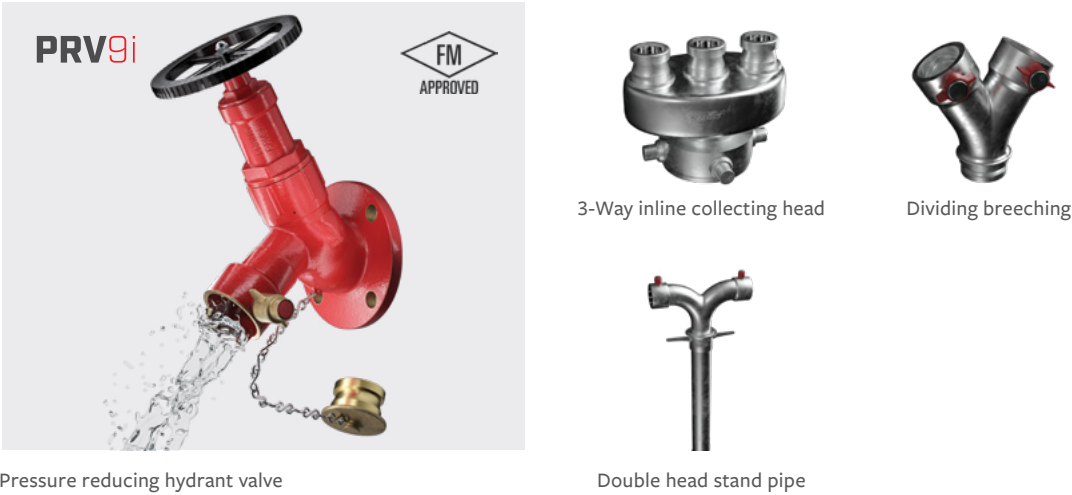
The Walter Frank 52 Series Fire Hydrant Valve Range was developed as a step up from our 51 Series Commercial Range, to provide an FM-Approved option when higher approval levels are a mandatory requirement in the protection of high value plant and infrastructure.

We offered unrivalled flexibility, with every aspect of the design, tooling, casting, machining, assembly, testing, painting, certification and serialisation performed in-house.

The Walter Frank 53 Series Fire Hydrant Valve Range was developed through the strong relationships we've formed throughout our supply chain, and as a direct result of working closely with an end-user to solve a decade old reliability problem. The range now provides a 'Heavy Duty' style Fire Hydrant Valve in all configurations, which is unrivalled in quality and approval (FM-Approved).

The full integration of centrifugal casting, sand casting, machining, and fabrication enables us to specialise in column pipes/riser mains for vertical fire pumps in the offshore oil & gas industry. Column pipes/riser mains of various diameters and lengths are horizontally centrifugally cast, proof-machined, finish-machined, assembled, third-party inspected and hydro pressure tested. Castings and fabrications are fully traceable to individual heat number casts and certified to customer requirements. We have the advantage of producing tubes with integral flanges on one end of the pipe, requiring only one centre butt weld instead of three.

Featured Products



Power Generation

Having supplied complex hydro power components for many years, Westley Group is undoubtedly one of the world's most experienced foundries for highly cored impellers, turbines, runners and blades.

Our experience of tooling, sand casting, highly alloyed copper/nickel-based alloys, stringent NDT and capacity planning/management is the reason we're trusted to deliver critical projects. When nickel aluminium bronze is the alloy of choice, oxide elimination is critical to produce defect-free components using our proprietorial pouring techniques. An example of this type of supply and programme management is the production of hydro power blades for the canoeing and water sport rapids for the London Olympics.

The Group worked with the customer to redesign a critical con rod bearing assembly for power transmission in safety-critical pumps. This eliminated prior issues by allowing us to manage and produce the entire split assemblies process. Rather than purchase parts from multiple suppliers, we sourced static and centrifugal parts from within our Group, before using newly invested CNC machining centres and CNC lathes. Tolerance is critical for the components to be assembled and press fitted correctly to exacting customer requirements. While painting and serialisation are also provided as part of the completely integrated supply.

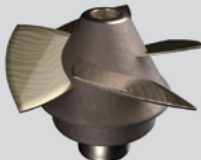


Tried and trusted
to deliver critical projects

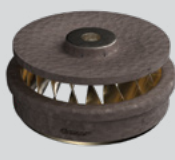
Featured Products



Hydro propeller hub



Hydro fixed blade propeller hub



Francis runner



Flanged bearing bush

Process Equipment

Our companies all have industry-leading experience in the design, casting, machining and assembly of often safety-critical, high quality, isolation valves. Routinely produced in all sizes from DN10 through to +DN1400 in small batch to large project volumes, gunmetal, nickel aluminium bronze and monel are mainstay alloys for our extensive customer base. Types of valve include Gate, Dual Plate Check, Axial Check, Butterfly, Globe, Ball, Hydrant, Y-Type and Diverter. Complex, large, and bespoke variants have casting simulations modelled prior to pouring.

The Group have supported the world's leading in-line pump companies for centuries. Pump components regularly have their own unique casting and machining requirements, with highly cored, performance critical water passageways creating manufacturing and quality adherence challenges. As well as naval applications, we have specialist experience in fire water and engine room pump componentry.



with industry
leading experience

Featured Products



Check valve



Valve seal ring



Y-type filtration valve

Architectural Projects & Art

With a rich heritage of producing castings for art and sculptural projects, we often work with specialist art fabricators to supply large scale, thin sectioned panels. Projects have included sizeable Kate Moss sculptures and other world-renowned projects such as 'Verity' in Ilfracombe. Creating these panels with exacting definition is highly skilful, most components are 100% bespoke. Our unique marriage of a sand medium, binding system, running system, metal preparation and gating/feeding mechanism, produces the high-quality, defined items envisioned by architects and artists alike.

Our numerous structural works over the years include Dublin Spire, Portcullis House in London, and various curtain wall façades. Certain bronzes are bombproof at given section thicknesses and this, coupled with the obvious tactile and visual advantages, has led to many architects and designers choosing copper-based cast products. Castings can be subjected to full NDT, and the alloy, along with patina treatment, can create almost every colour and texture desired.



Featured Products



KATE MOSS STATUE



DEMON MAN

Artistic touches

General Engineering



The Group produces very large aluminium sand castings for magnetic resonance imaging (MRI) housings. Body scanning is one of medicine's most valuable diagnostic techniques, and we are immensely proud to support this industry.

Few sand-casting foundries are capable of managing this scale of component as a single piece, high-integrity casting. For such a large and complicated pour, the metallurgy requires careful management, with components offered proof and finish machined.

We have supported general engineering applications such as steel works over many decades. We have produced components in all ferrous and non-ferrous alloys up to 15,000kg. Static sand castings have been supported with centrifugal castings such as screw-down nuts. All these components have been finish-machined and regularly assembled with other parts.

Featured Products



Open Impeller



Machined bush



Crossover pipe

Pride in application

Aerospace

Westley Group supplies a number of aerospace components from different manufacturing cells.

Supporting the industry for many years, we have both an AS9100 and Rolls Royce SABRE approval for the supply of MSRR material in Trent engine components. MSRR material is very reactive, but our stringent furnace and pouring techniques control this within the high-speed horizontal centrifugal casting process. All components are heat treated and dye penetrant checked against the strictest defect parameters.

It is increasingly uncommon for aerospace applications to require large static castings. The Group however still supports the industry and

regularly produces the machine gun turret housing for fast jets such as the Typhoon. These sand castings are produced in defect-free nickel aluminium bronze and have to pass exacting NDT processes prior to machining.

We are a long-running producer of airside componentry. One of the most successful projects has been the production and supply of rotor castings for airside fuel delivery. Aluminium die castings are produced in-house, before being subject to incredibly high tolerance CNC turning and milling processes. This is a perfect example of reasonably large volume components, which require absolute consistency of tolerance across each batch.



Stringent testing processes

Featured Products



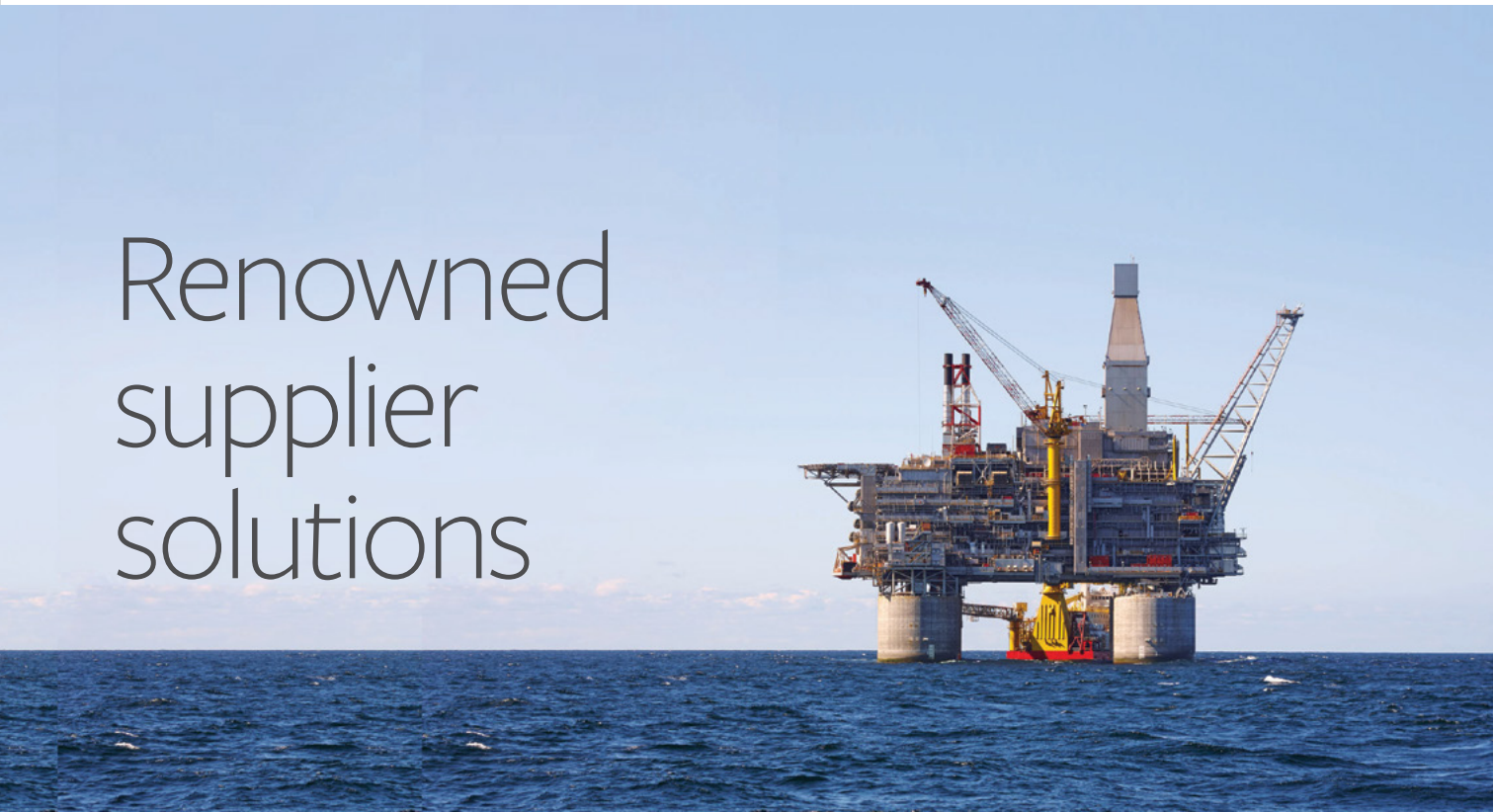
Oil and Gas

The Group is a successful producer of high-integrity copper-based sand castings for jack-up oil rigs. Our unique, non-standard, metallurgy and complex NDT requirement complements large scale CNC Milling with detailed certification and verification documentation.

With fully integrated centrifugal casting, sand casting, machining, and fabrication, we specialise in column pipes/riser mains for vertical fire pumps in the offshore oil & gas industry. Column pipes/riser mains of various diameter and lengths are horizontally centrifugally cast, proof-machined, finish-machined, assembled, third party inspected and hydro pressure tested. Castings and fabrications are fully traceable to

an individual heat number cast and certified to customer requirements. We have the advantage of producing tubes with integral flanges on one end of the pipe, requiring only one centre butt weld instead of three.

We are also a renowned casting supplier of non-ferrous valve bodies and trim. Valves for oil & gas projects often require a large variance in size and volume. Perfectly placed for high-integrity casting production from 3/8" to +60" valves, all copper and nickel-based alloys are offered as a complete, vertically-integrated supply solution. Unique sand-casting methodology controls the metallurgical properties and homogeneity of material to ensure defect-free components.



Renowned supplier solutions

Featured Products



Pump casing



Impeller



Pump bowl



Discharge bend



Delivery elbow chamber



Oil wellhead connector



Column pipe/riser main



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