Weir Flow Control designs, engineers and manufactures innovative fluid-transfer technologies that meet the latest API 610 standard. Our pumps are used throughout the Oil and Gas production value chain – from upstream exploration, to midstream transport, to downstream refining. Weir Flow Control pumps can be found in harsh environments and challenging applications where operational reliability is paramount.

**API 610 Products**

**Floway® Vertical Turbine Pumps**
Designed for use in applications requiring higher pumping pressures. Floway pumps feature a vertical, close-coupled, single or multi-stage design, with a fabricated discharge head, top-mounted motor and wet-pit or closed-suction options. Our pumps are also available with low-NPSH impellers to minimize barrel length.

**Gabbioneta™ Centrifugal Pumps**
Gabbioneta Pumps provide superior efficiency in more than 100 different hydraulic configurations for heavy duty use. These pumps feature numerous optimized impeller designs, a back pullout configuration for easy maintenance, and are equipped with a patented contamination-free bearing housing allowing them to operate reliably in temperatures up to 750°F (400°C).

**Roto-Jet® Pitot Tube Pumps**
Roto-Jet pumps are ideal for use in low-flow, high-head applications. The design of Roto-Jet pumps provides a broad operational range without generating damaging hydraulic forces during a process upset. This feature results in improved mechanical seal and bearing life, and maximized mean-time between failure, with a corresponding decrease in maintenance costs and an increase in operational reliability.

**Design and Testing are the Fundamental Core of our Operation**
All of Weir Flow Control pumping technologies have been designed and tested to ensure they meet the demands of high-volume, high-pressure, fluid-transfer applications, common in Oil and Gas production.

**Testing Capabilities:**
Weir Flow Control full service pump testing facilities meet the needs of the Oil and Gas industry with the latest API 610 testing capabilities.

- Maximum flow capacity: up to 50,000 gpm (12,000 m³/h)
- Maximum power: up to 10,700 horsepower (8,000 kW)
- Maximum pressure: up to 5,000 psig (410 bar)
- Maximum voltage: up to 13.5 kilovolts
- Testing capability: 50 Hz, 60 Hz and other variable frequencies

**Engineering Capabilities:**
Weir Flow Control pumps are compliant with the latest API 610 Standard and have been engineered to meet the demands of the Oils and Gas industry. Weir maintains its high standard of quality and reliability by performing in-house pump testing.

- 3D solid modeling
- In-house computational fluid dynamic analysis
- Customized hydraulic and mechanical design
- Low vibration design
- In-house FEA stress and deflection analysis
- In-house natural frequency analysis
Meeting the Needs of our Oil and Gas Customers

The three production segments in the Oil and Gas Industry; upstream, midstream and downstream – create many unique fluid-transfer processes that can benefit from the implementation of Weir Flow Control technologies. This application map highlights the upstream, midstream and downstream sectors and where each of the Weir pump brands perform best.

Terminal
Loading and unloading
Transfer services

Petrochemical
Service and utility
Gas processing
Cooling water

Pipeline
Booster
Transfer
Mainline

Tank Farm
Storage
Unloading

Refining
Charge process feed
Reactor feed
Boiler feed
Cooling water
Water wash
Depropanizer
Deethanizer

Offshore
Seawater lift
Firewater
Process/Production

FPSO
Ballast
Firewater

Onshore
Firewater
Water injection

Roto-Jet®
Gabbioneta™
Floway®
There are many entry points to the Oil and Gas production and supply chain – and most of them require some form of pump-activated fluid transfer to keep production reliable, on schedule and on budget. Recognizing this, Weir Flow Control has engineered its pump technologies with unique features and benefits which can help satisfy the needs of each of the three main sectors in Oil and Gas production: upstream exploration, midstream transport and downstream refining/petrochemical processing.

**APPLICATIONS:**

**FLOW CONTROL PRODUCTS**

**OFFSHORE SEAWATER LIFT**

**BALLAST**

**FIRE WATER**

**WATER INJECTION**

**PROCESS PUMPS**

**PRODUCTION PUMPS**

**TRANSFER / STORAGE**

**LOADING / UNLOADING**

**MAIN LINE**

**TERMINAL**

**BOOSTER**

**TANK FARMS**

**CHARGE / PROCESS FEED**

**SERVICE / UTILITY**

**GAS PROCESSING**

**BOILERFEED**

**COOLING WATER**

**REACTOR FEED**

**WEIR MODEL**

**CLASSIFICATION OF PUMPS**

**OH2** | **OH3** | **OH5** | **BB1** | **BB2** | **BB3** | **BB5**

**RL** | **DSL** | **BS** | **AXD** | **AHD** | **AHP** | **AHP DS**

**APPLICATIONS:**

**WEIR MODEL**

**R** | **RL** | **B** | **BB1** | **BB2** | **BB5**

**RSIL** | **DSL** | **BS** | **AXD** | **AHD** | **AHP** | **AHP DS**

**VBN** | **VBN DS** | **VD** | **VLD** | **VI** | **VLS** | **VLD DS**

**VHP** | **VLD** | **VI** | **VLS** | **VLD DS**

**VBN** | **VBN DS** | **VLD** | **VI** | **VLS** | **VLD DS**

**VHP** | **VLD** | **VI** | **VLS** | **VLD DS**

**RO-FT** | **Roto-Jet**

**OFFSHORE SEAWATER LIFT**

**BALLAST**

**FIRE WATER**

**WATER INJECTION**

**PROCESS PUMPS**

**PRODUCTION PUMPS**

**TRANSFER / STORAGE**

**LOADING / UNLOADING**

**MAIN LINE**

**TERMINAL**

**BOOSTER**

**TANK FARMS**

**CHARGE / PROCESS FEED**

**SERVICE / UTILITY**

**GAS PROCESSING**

**BOILERFEED**

**COOLING WATER**

**REACTOR FEED**
All of Weir Flow Control’s pumps and ancillary equipment for use in Oil and Gas applications have been designed to satisfy the requirements of the various pump classifications within the latest API 610 standard.

**GABBIONETA™ AXD/AXDD (BB1)**
Axially split, single and two stage, double suction, between bearings
- **Capacity:** 53,000 gpm / 12,000 m³/h
- **Head:** 2,500 ft / 760 m
- **Pressure:** 870 psig / 60 bar
- **Temp Range:** -22° F (-30° C) to 390° F (200° C)
- **Max. Speed:** 3,600 rpm

**GABBIONETA™ DSA (BB2)**
Radially split, single stage, double suction, between bearings
- **Capacity:** 53,000 gpm / 12,000 m³/h
- **Head:** 1,250 ft / 380 m
- **Pressure:** 1,450 psig / 100 bar
- **Temp Range:** -22° F (-30° C) to 850° F (455° C)
- **Max. Speed:** 3,600 rpm

**GABBIONETA™ DH/DDH (BB2)**
Radially split, single-stage, double suction, between bearings
- **Capacity:** 8,800 gpm / 2,000 m³/h
- **Head:** 2,500 ft / 760 m
- **Pressure:** 2,175 psig / 150 bar
- **Temp Range:** -22° F (-30° C) to 850° F (455° C)
- **Max. Speed:** 3,600 rpm

**GABBIONETA™ AHP/AHP DS (BB3)**
Axially split, volute or diffuser, single or double suction, between bearings
- **Capacity:** 8,800 gpm / 2,000 m³/h
- **Head:** 4,920 ft / 1,500 m
- **Pressure:** 2,175 psig / 150 bar
- **Temp Range:** -22° F (-30° C) to 280° F (240° C)
- **Max. Speed:** 3,600 rpm

**FLOWAY® / GABBIONETA™ VHP/VBN-DS (VS1)**
Vertically suspended, single casing, diffuser, single or double suction
- **Capacity:** 35,000 gpm / 8,000 m³/h
- **Head:** 6,560 ft / 2000 m
- **Pressure:** 6,076 psig / 400 bar
- **Temp Range:** -40° F (-40° C) to 750° F (400° C)
- **Max. Speed:** 3,600 rpm

**GABBIONETA™ AHPB/AHPB DS (BB5)**
Radially split, single or double suction, double casing, multi-stage, between bearings
- **Capacity:** 8,800 gpm / 2,000 m³/h
- **Head:** 11,155 ft / 3,400 m
- **Pressure:** 5,076 psig / 350 bar
- **Temp Range:** -22° F (-30° C) to 750° F (400° C)
- **Max. Speed:** 7,000 rpm

**GABBIONETA™ VD/VLD (VS2)**
Vertically suspended, single casing, volute, double suction impeller
- **Capacity:** 11,000 gpm / 2,500 m³/h
- **Head:** 1,640 ft / 500 m
- **Pressure:** 870 psig / 60 bar
- **Temp Range:** -22° F (-30° C) to 750° F (400° C)
- **Max. Speed:** 1,800 rpm

**GABBIONETA™ VI (VS4)**
Vertically suspended, single casing, volute
- **Capacity:** 22,000 gpm / 5,000 m³/h
- **Head:** 985 ft / 300 m
- **Pressure:** 580 psig / 40 bar
- **Temp Range:** -22° F (-30° C) to 750° F (400° C)
- **Max. Speed:** 3,600 rpm

**GABBIONETA™ VD/VLD (VS7)**
Vertically suspended, double casing, double suction impeller
- **Capacity:** 35,000 gpm / 8,000 m³/h
- **Head:** 6,560 ft / 2000 m
- **Pressure:** 2,900 psig / 200 bar
- **Temp Range:** -22° F (-30° C) to 750° F (400° C)
- **Max. Speed:** 1,800 rpm
The Weir Flow Control team is committed to delivering market-leading products and services that meet the unique technical and commercial challenges encountered across the full breadth of the Oil and Gas production and supply chain. Our mission is to be wherever our customers need us, whenever they need us—this commitment is central to the aftermarket field services we offer.

GABBIONETA™
R (OH2)

Centerline mounted, single-stage, overhung
Capacity: 11,000 gpm / 2,500 m³/h
Head: 1,250 ft / 380 m
Pressure: 3,045 psig / 210 bar
Temp Range: -150° F (-100° C) to 850° F (450° C)
Max. Speed: 3,600 rpm

WSP ROTO-JET®
RO (OH2)
Pitot tube, overhung
Capacity: 450 gpm / 102 m³/h
Head: 5,200 ft / 1,585 m
Pressure: 2,290 psig / 158 bar
Temp Range: 32° F (0° C) to 250° F (120° C)
Max. Speed: 6,300 rpm

GABBIONETA™
RL (OH2)

Centerline mounted, single-stage, low flow
Barske type
Capacity: 65 gpm / 15 m³/h
Head: 150° F (66° C) to 850° F (450° C)
Temp Range: 656 ft / 200 m
Max. Speed: 3,600 rpm

GABBIONETA™
BS (OH5)

Vertical in-line, single-stage, close coupled, overhung
Capacity: 2,200 gpm / 500 m³/h
Head: 656 ft / 200 m
Pressure: 928 psig / 64 bar
Temp Range: 40° F (4° C) to 480° F (250° C)
Max. Speed: 3,600 rpm

GABBIONETA™
BSD/DSIL (OH3)

Vertical in-line, single-stage, single or double suction
Capacity: 26,500 gpm / 6,000 m³/h
Head: 1,150 ft / 350 m
Pressure: 1,450 psig / 100 bar
Temp Range: -240° F (-150° C) to 750° F (400° C)
Max. Speed: 3,600 rpm

WSP ROTO-JET®
ROFT
Pitot tube, between bearings
Capacity: 450 gpm / 102 m³/h
Head: 4,920 ft / 1,500 m
Pressure: 2,175 psig / 150 bar
Temp Range: 32° F (0° C) to 550° F (250° C)
Max. Speed: 6,000 rpm

Our global footprint allows our technicians and field-service teams to deliver exceptional on-site service. From installation and on-site testing, to maintenance and operations training, we are with our customers every step of the way.