

# Welltec<sup>®</sup> Isolation Valve (WIV)



The Welltec<sup>®</sup> Isolation Valve (WIV) design, when incorporated to lower completions or liners, enables circulation & wash down or annulus fluid displacement during deployment and provides bi-directional sealing for permanent lower completion or liner isolation upon closure.

Welltec<sup>®</sup>

# For liner isolation & WAB<sup>®</sup> / WLP setting




---

## 01 Applications

Liner Installation that incorporate WAB / WLP or alternate hydraulically actuated technology

Multi zone open hole completions

Inner string valve for cased and open hole applications

Forming the upper and lower seal assemblies for casings, liners or liners

---

## 02 Features

High differential pressure rating with bi-directional sealing

Low diametrical profile, minimal running OD

Provides safe and cost-effective sealing

Corrosion resistant alloy are available for hostile environments

No impact on casing tensile, torque specifications

Heavy-duty design.

High circulation rate option while RIH

---

## 03 Benefits

Allows for fluid circulation and high rate wash down / displacement during deployment of lower completion / liner

Fully balanced, permanent, bidirectional sealing mechanism

To close the WIV, a ball is dropped from surface and circulated down, generating a differential pressure to shift the sleeve and create a permanent bi-directional seal, such that WAB / WLP can be hydraulically expanded. The sleeve is locked in the closed position bi-directionally.

# WCS product specifications

Welltec™ WIV	General Information
Product Name	Welltec® Isolation Valve (WIV)
ISO Standard	ISO 14998:2013
Product Structure	Ball-drop activated, bi-directional seal
Seal length	Compatibility with all standard casing material / weight / threads
Base Casing	4140 / 13 Cr / S13 Cr / 25 Cr / Inc 718 / 925
Standard material	O-ring
Standard elastomers & seals	HNBR / Aflas / FFKM

Welltec® WIV	412WIV
Base-pipe Size	4 ½"
Maximum Pressure psi (bar)	10,000psi (689bar)
Maximum Collapse Pressure	10,000psi (689bar)
Shear Pin Arrangement	Up to 4 pins
Max OD	5"
Min ID	1.98
Flow Area Sq. in	1.49"
ISO14310 Standard*	V3
Ball OD	1.50"

\* Leak criteria

