

# PRODUCT OVERVIEW

## COMPANY PROFILE

WELBRO is focused on providing complete solutions to the various challenges facing the water infrastructure industry in Africa today. With decades of experience between its founders backed by extensive technical expertise, WELBRO offers an unrivalled array of solution driven capabilities. WELBRO prides itself on its ability to respond to the needs of all its customers by providing superior service and high quality, innovative pipe products at market leading prices.

WELBRO offers a full range of pipe products including fabricated fittings, wide tolerance couplings and flange adapters, dedicated couplings and flange adapters, step couplings, dismantling joints and structural steel items such as manhole covers, ladders and ventilators.

WELBRO broad standard product range is enhanced even further by its in-house fabricated steel facility. Here, WELBRO manufactures highly customised products including large diameter couplings and flange adapters with various flange configurations, custom fabricated pipe fittings, manhole covers, level indicators and other structural steel work. Work is performed to the highest quality standards, and WELBRO is able to provide products in compliance with any required quality standards. Third party inspections can easily be accommodated and in accordance with this, welders have been tested and are certified to the required standards for example.

WELBRO sells across the African continent.

WELBRO pipe connection products offers the following:

- o WELBRO Wide Range capability
- o The only coupling with 100% South African content
- o Size range extends from DN50 to DN800
- o High performance gaskets extruded to ensure lifelong sealing.
- o No threading, bevelling, welding or flanging.
- o Joins almost all types of pipes, valves or meters.
- o Quick and easy assembly: only a spanner and a torque wrench needed.
- o Unrivalled technical advice and backup
- o Reduced or no need for on-site fabrication.
- o Excellent corrosion protection

## WELBRO COUPLINGS



### COUPLINGS

- Wide range and dedicated sizes available
- Sizes from 50mm to 800mm
- WELBRO Wide range capability
- Supplied ex-stock up to 600mm
- Special sizes or ID's available upon request.



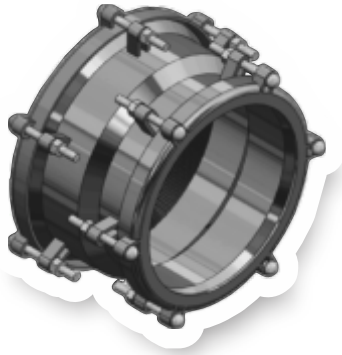
### FLANGE ADAPTERS

- WELBRO Wide range capability
- Long barrels can be accommodated
- Any table drilling flange
- Restrained flange adapters also available



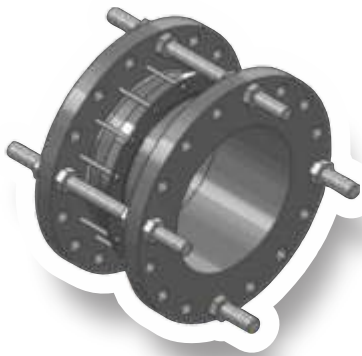
### SPECIAL COUPLINGS

- Long Barrel couplings and flange adapters
- End caps
- Special ID couplings and flange adapters
- WELBRO Wide Range capability



## STEP COUPLINGS

- Connect pipes of different outside diameters
- WELBRO Wide range capability
- Accommodates most pipe types and sizes
- Popular sizes kept in stock



## DISMANTLING JOINTS

- Easy installation and removal of pipeline components
- Anchoring provided by tie rods
- Accommodates longitudinal adjustment
- All flange drillings



## FABRICATED FITTINGS

- Full range of fabricated fittings, including bends, tees, reducers and any other fitting that may be required.
- Available with WELBRO half coupling if required
- WELBRO Half couplings also available separately

### The concept

WELBRO Wide Range Couplings by WELBRO are designed to simplify the connecting plain ended pipes with different outside diameters to each other. One WELBRO coupling is able to connect pipes made from a wide variety of pipe materials such as steel, ductile iron, PVC, cast iron, GRP and asbestos cement pipes amongst others. The WELBRO range covers the following size ranges:

- o WELBRO Small from DN50 to DN300
- o WELBRO Large from DN350 to DN800

The WELBRO range is designed and manufactured under quality management systems in accordance with ISO 9001.

### The benefits

The biggest benefit of the WELBRO range is the reduced stock holding required, which also speeds up stock turn leading to cost savings. With up to 23mm tolerance on the pipe OD, it greatly eases installation and eliminates guesswork. WELBRO provides an widely adaptable and economic solution to most pipe connection problems.

### Simplifies Installation

The WELBRO range comes already assembled with WELBRO's unique gasket, with its self centering lip and integrated ribs. These ribs help to eliminate almost all friction on pipes, which allows the product to seal on poor surfaces that are scored, pitted or corroded. A single spanner is needed for installation because of the captive non-rotating bolt heads, and bolt torque is standard across the range. The WELBRO range makes it far easier to work in congested and uncomfortable areas and assists in ensuring proper installations first-time around.

### Range of Products

The WELBRO range includes:

- o WELBRO Couplings
- o WELBRO Long Barrel Couplings,
- o WELBRO Step Couplings
- o WELBRO Flange Adapters,
- o WELBRO End Caps,
- o WELBRO Dismantling Joints
- o WELBRO Afrifit Fabricated Fittings and Half Couplings

### Pressure ratings

WELBRO products have a standard test pressure of 24 bar on water and are suitable for 16 bar working pressure for water as standard.

Higher pressure ratings can be accommodated upon request.

# PIPE APPLICATION CHART

## PIPE APPLICATION CHART

## WELBRO COUPLINGS

NOMINAL BORE	STEEL	DI	PVC / HDPE	FIBRE CEMENT PIPES							GRP					FLOWTITE
				COD	6	12	18	24	30	36	VECTUS					
											6	10	16	20		
50	60.3		50	69												
65	76.1		63	82												
75		98	75	96												
80	88.9		90													
100	114.3	118	110	122												
125	139.7		125	150												
140			140													
150	165.1	170	160	177		168	174	180	188	196						
175	193.7			205												
200	219.1	222	200	232		222	229	239	250	262						
225	244			259												
250	273	274	250	286		274	284	295	304	318	258	258	260	262		
300	324	326	315	345		328	340	353	365	378	309	309	311	314	327	
350	356	378	355	426	378	382	396	412	426	440	359	360	363	365	379	
400	406	429	400	453	430	436	450	468	484	503	9	410	414	417	413	
450	457	480	450	507	483	488	506	524	545	566	459	462	466	470	464	
500	508	532	500	560	535	543	560	583	606	629	510	511	517	521	515	
525				587												
550	559			614							561	563	569	573		
600	610	635	630	667	638	651	672	699	727	755	612	614	620	624	617	

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Users of any WELBRO product or information within this document must make their own assessment of suitability for their particular application. Product dimensions are nominal only, and should be verified if critical to a particular installation. No warranty is either expressed, implied, or statutory made by WELBRO unless expressly stated in any sale and purchase agreement entered into between WELBRO and the user.



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