

Designed to perform,
engineered to last



Drain Couplings (VDC) & End Caps (VECR)

Designed to perform in situations where there is reduced resistance to heavy earth loads or unstable ground.



Manufactured from the highest quality elastomeric rubber, VIPSeal® Drain Couplings are used to connect and repair low and non-pressure drainage systems and pipelines up to 650mm outside diameter, where the resistance to earth loads is not required. End caps are suitable for pipe diameters up to 465mm OD.

Quick and easy to install, Drain Couplings and End Caps exhibit excellent sealing properties when tightened to the correct torque and can accommodate minor differences in pipe diameter.

Their design ensures that they can be used on any pipe material, making them the perfect solution for repairing pipes or when joining sections of pipe together.

End caps can be used for both air and water testing of pipelines, however, the limitations of the product needs to be considered. The pressures used during testing are normally low and with the additional strength within the moulding is able to resist these pressures without swelling excessively. It is important to support or brace the end cap to reduce the inflation within the moulding and to prevent the end cap sliding off the pipe, especially when testing smooth walled pipes. The heavy duty clamp is capable of sealing up to 1 bar, at this pressure additional bracing or support should be used as a precautionary measure. End caps can be supplied with an air test nipple if required.

For applications which require shear / deflection resistance under heavy earth loads or fall under the WIS-4-41-01 standard, a VIPSeal® Standard Coupling (VSC) should be used.

Product Specifications	
VIPSeal® Product Reference	TYP 1 VDC & VECR
Size Range	100-650mm (VDC) / 105-465mm (VECR)
Material	EPDM Rubber
Steel	1.4301 (304) Stainless Steel / 1.4401 (316)
Tightening Torque	6Nm (100-265) / 10Nm (275-385) / 13Nm (410-580) / 20Nm (600+)
Pressure Rating	0.6 bar / 8.70 psi
Jetting Resistance	120 bar (VDC Couplings only)
Constant Working Temperature Range	-50° to 60°C *
Standards	EN681-1, EN295-4, MPA, VA, WSSAAS/NZS 4237



*For any applications beyond the figures quoted, please refer to our technical department.



Applications:

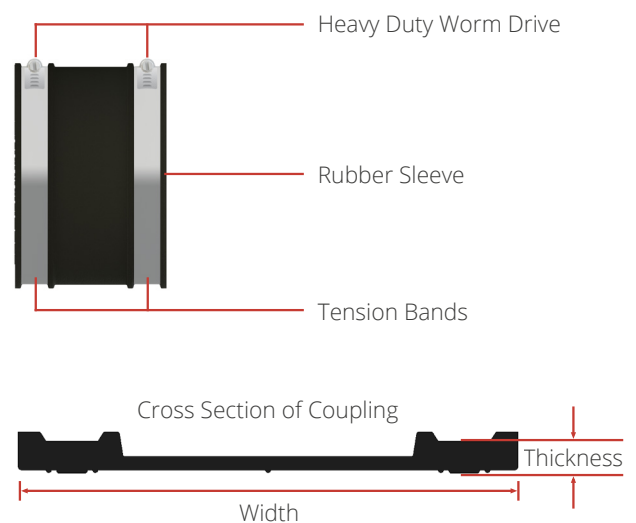
- As a coupling to join plain ended pipes
- To repair damaged sections of pipe
- Where the diameters of pipe differ
- Joining short and cut lengths of pipe
- As an adaptor to join pipes of different material
- As a connection for soil, waste and vent applications

Benefits:

- ✓ Manufactured from high grade materials ensuring high performance and long service life
- ✓ Heavy duty worm drives
- ✓ A low cost solution to join pipes or repair damaged sections
- ✓ Easy to install
- ✓ Withstands internal pressures up to 0.6 bar, constant working pressure. Contact our technical department for intermittent working pressure above 0.6 bar

Product Range - Drain Couplings (VDC)

VIPSeal Reference	Range (Pipe O/D)		Width (mm)	Thickness
	From (mm)	To (mm)		
VDC115	100	115	100	7
VDC125	110	125	120	7
VDC135	120	135	120	7
VDC150	125	150	120	7
VDC165	140	165	120	7
VDC175	150	175	120	7
VDC185	170	185	120	7
VDC195	180	195	120	7
VDC200	175	200	152	7
VDC215	190	215	150	7
VDC225	200	225	152	7
VDC250	225	250	152	7
VDC265	250	265	110	7
VDC275	250	275	152	7
VDC290	265	290	150	7
VDC310	285	310	190	9
VDC320	295	320	190	9
VDC335	305	335	190	9
VDC360	340	360	190	9
VDC385	355	385	190	9
VDC410	385	410	190	9
VDC425	400	425	190	9
VDC430	405	430	190	9
VDC445	420	445	190	9
VDC465	435	465	190	9
VDC470	440	470	190	9
VDC490	465	490	190	9
VDC510	480	510	190	9
VDC525	495	525	190	9
VDC540	510	540	190	9
VDC550	520	550	190	9
VDC560	530	560	190	9
VDC570	540	570	190	9
VDC580	555	580	190	9
VDC630-M8	605	630	190	9
VDC650-M8	625	650	190	9



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Product Range - End Caps (VECR)

VIPSeal Reference	Range (Pipe O/D)	
	From (mm)	To (mm)
VECR115A	105	115
VECR135A	125	135
VECR165A	155	165
VECR190A	180	190
VECR215A	200	215
VECR250A	235	250
VECR270A	255	270
VECR315A	300	315
VECR360A	345	360
VECR465A	450	465



Common Applications

VDC115 / VECR115 <ul style="list-style-type: none"> <input type="checkbox"/> 110mm pvcu <input type="checkbox"/> 100mm cast iron (soil) (smu/ensign/sml) <input type="checkbox"/> 100mm stainless steel <input type="checkbox"/> 100mm twin walled plastic <input type="checkbox"/> 110mm twin walled plastic 	VDC125 <ul style="list-style-type: none"> <input type="checkbox"/> 100mm supersleve <input type="checkbox"/> 100mm cast iron (drain) <input type="checkbox"/> 100mm ductile iron <input type="checkbox"/> 100mm grey iron <input type="checkbox"/> 100mm asbestos cement <input type="checkbox"/> 100mm pitch fibre <input type="checkbox"/> 100mm twin walled plastic 	VDC135 / VECR135 <ul style="list-style-type: none"> <input type="checkbox"/> 100mm supersleve <input type="checkbox"/> 100mm (4") salt glazed ware <input type="checkbox"/> 100mm vitrified clay <input type="checkbox"/> 100mm pitch fibre <input type="checkbox"/> 100mm asbestos cement 	VDC150 <ul style="list-style-type: none"> <input type="checkbox"/> 125mm cast iron (soil) <input type="checkbox"/> 125mm twin walled plastic 	VDC165 / VECR165 <ul style="list-style-type: none"> <input type="checkbox"/> 160mm pvcu <input type="checkbox"/> 150mm cast iron (smu/ensign/sml) <input type="checkbox"/> 150mm stainless steel <input type="checkbox"/> 160mm polyethylene 	VDC175 <ul style="list-style-type: none"> <input type="checkbox"/> 160mm pvcu <input type="checkbox"/> 150mm ductile iron <input type="checkbox"/> 150mm cast iron (bs416) <input type="checkbox"/> 150mm cast iron (bs437) <input type="checkbox"/> 150mm stainless steel <input type="checkbox"/> 150mm ultra-rib <input type="checkbox"/> 150mm quantum
VDC185 / VECR190 <ul style="list-style-type: none"> <input type="checkbox"/> 150mm supersleve <input type="checkbox"/> 150mm pitch fibre <input type="checkbox"/> 150mm asbestos cement <input type="checkbox"/> 150mm twin walled plastic 	VDC195 / VECR190 <ul style="list-style-type: none"> <input type="checkbox"/> 150mm supersleve <input type="checkbox"/> 150mm (6") salt glazed ware <input type="checkbox"/> 150mm vitrified clay <input type="checkbox"/> 150mm concrete <input type="checkbox"/> 150mm asbestos cement <input type="checkbox"/> 150mm pitch fibre 				

Edition 3.0



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Material Options

For applications which are subjected to higher temperatures, or where chemicals are present, VIPSeal® Flexible Couplings can be ordered in a range of materials:

Heavy Duty Tension and Shear Bands

For higher corrosion or contaminated ground areas and marine environments, grade 1.4401(316) stainless steel should be specified to eliminate the need for protective tape.

Rubber Sleeves

For applications where chemicals or higher continuous temperatures are experienced, VIPSeal® Flexible Couplings can be ordered in the following materials (contact our customer service team for technical guidance).



VIPSealPlus is manufactured from peroxide cured EPDM which is superior to the sulphur cured variant for elevated temperature applications and for applications that have to endure steam. Peroxide cured EPDM is recommended as continuous temperatures rise above 60°C for many years of leak free service is assured up to temperatures of 125°C. Peroxide cured EPDM has the same chemical compatibility as the standard VIPSeal range (sulphur cured EPDM).



VIPSealXtra is manufactured from sulphur cured Nitrile which is an effective material for applications that are exposed to mineral oils, fats and greases when constant temperatures remain below 60°C.



VIPSealXtraPlus is manufactured from peroxide cured Nitrile which is superior to the sulphur cured variant for elevated temperature applications. Peroxide cured Nitrile as continuous temperatures rise above 60°C for many years of leak free service is assured up to temperatures of 100°C.



VIPSealChem is manufactured from FKM which can cope with elevated continuous temperature applications up to 200°C. It's resistance to a wide range of chemicals makes it the perfect choice for industrial and food applications.



VIPSealXtreme is manufactured from FFKM and is suitable for applications found in chemical and process industries. With a resistance to aggressive chemicals and CWT exceeding 200°C, VIPSealXtreme is designed for the toughest conditions.

Information contained in this data sheet is up-to-date and correct as at the date of issue. We reserve the right to change any information without prior notice.

