

UNRESTRAINED MECHANICAL COUPLINGS INSTALLATION GUIDE



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APPLICATIONS

Designed for use in the connections and repair of cold water piping systems. The Clover Connect VPC Coupling can be used on a wide range of pipe materials including PVC-O, PVC-M, PVC-U, Ductile Iron, AC, GRP and Steel.

Clover Connect VPC Couplings do not provide axial pipe restraint and are not suitable for use on polyethylene pipe. Couplings comply to the requirements of AS/NZS4998.

MATERIALS

- › Sleeve – 316 Stainless Steel
- › Seals – EPDM AS1646
- › End Rings – Ductile Iron to AS4158
- › Bolts and Washers – 316 Stainless Steel
- › Nuts – 316 Stainless Steel with Anti Seize Coating

RECOMMENDED EQUIPMENT

- › Torque Wrench
- › Pipe surface cleaning equipment
- › Pipe/Gasket lubricant approved for use with potable water

RECOMMENDED TIGHTENING TORQUE TABLE

Product Code	Size (DN)	Pipe Size Range (mm)	Tightening Torque (Nm)		Nominal Setting Gap (mm)	Max. Deflection each end (°)
			oPVC	Other Pipe Materials		
LONG SERIES						
DGVPC080	80	88-103	45	60	20	3
DGVPC100	100	108-133	45	60	20	3
DGVPC150	150	158-182	45	60	25	3
DGVPC200	200	214-238	50	60	35	3
DGVPC225	225	242-269	50	60	35	3
DGVPC250	250	270-295	50	60	35	3
DGVPC300	300	330-356	50	60	35	3
DGVPC375	375	400-429	50	60	35	3
DGVPC450	450	488-512	50	60	35	3
DGVPC500	500	540-565	50	60	35	3
DGVPC600	600	656-680	50	60	35	3
SHORT SERIES						
DGVPC100SB	100	108-133	45	60	20	3
DGVPC150SB	150	158-182	45	60	25	3



FIG 1.

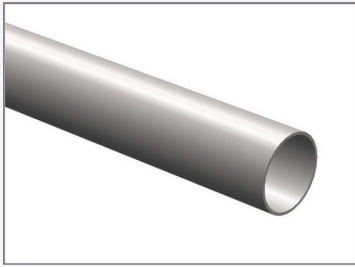
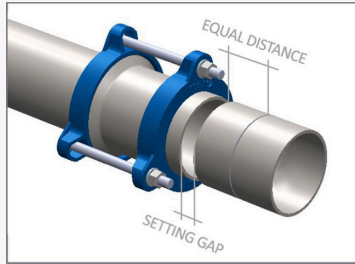


FIG 2.



INSTALLATION

1. Examine the pipe ends to ensure they are round, smooth, free of dents and score marks. Ensure they are within the specified tolerance for that material type. Any weld beads/ marks must be ground smooth while correctly maintaining the correct surface profile. Ensure that pipe ends for engagement into coupling are free from rust, scale or any other foreign matter that may affect the performance of the coupling (Fig. 1).
2. Align the pipes to be joined, ensuring they are concentric. Mark both pipe ends at a distance of half the clamp length minus half the setting gap of the coupling to be used (refer table on page 1 and Fig. 2). Lubricate the surfaces of the sealing gaskets with approved lubricant. When joining two pipes with varying outside diameters, position the coupling end with the nuts on the pipe with the smaller outside diameter.
3. Adjust the gap setting (Fig. 2) between the pipe ends for appropriate coupling.
4. Using the markings as a guide on the pipe ends, slide the coupling to a central position over the pipe ends. For ease of installation, rotate coupling so all bolts and nuts are accessible.
5. When tightening coupling, bolts should be tightened in a diametric star pattern (Fig. 3). Give each nut 1 – 2 turns at a time to evenly engage the end rings and gasket assembly. Using a torque wrench, all bolts must be properly tightened to the correct torque provided in the table on page 1. Retension all fasteners after 30 minutes to compensate for loss of tension through gasket relaxation. It is recommended that an anti-galling lubricant be applied to stainless steel fasteners, as required.

FIG 3. VPC COUPLING INSTALLATION

