

INSTALLATION GUIDE

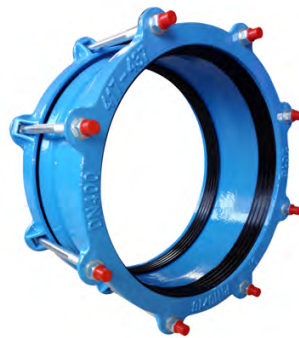
Universal Coupling

Installation guide

DN40–DN600 | AQF-IG-UC-001 | R3

Preparation and alignment

Universal Couplings are supplied ready assembled. It is not necessary to dismantle the product for installation.



AQUAFITTING Universal Coupling.

External restraint is essential

Universal Coupling products do not prevent pipe pull-out. Adequate external restraint to pipework is essential.

01 Examine both pipe ends

Ensure the pipe ends are round, smooth and free from bulges, dents, score marks, scale, rust and loose debris. Check that both pipe diameters are within the range provided for the coupling. Weld beads must be ground flush while maintaining the correct surface profile.

02 Check the gasket and lubrication

Check that the grade of gasket is suitable for the conveyed medium. Check that the rubber seal is sufficiently lubricated where it contacts the coupling centre barrel. If not, apply a suitable lubricant.

03 Align, support and mark

Align the pipe to be laid with the pipe already in position. Keep the pipe ends concentric, adjusting the support or trench bed as necessary. Mark both pipe ends at a distance equal to or greater than half the overall assembled width of the coupling. Place the coupling wholly on one pipe end.



Cleaning the seal.



Applying suitable lubricant.



Checking the assembly.

Tightening and setting gap

04 Centre the coupling

Adjust the setting gap between pipe ends as necessary. Using the marks made in Step 3, slide the coupling to a central position over the pipe ends and commence bolt-up.

05 Tighten opposite bolts progressively

Tighten diametrically opposed bolts, giving the nuts one or two turns at a time to draw up the end rings evenly. Tighten to the specified torque, working around the coupling as many times as necessary. The radial gap between the pipe and coupling should be even all the way round. Rubber may be seen to extrude.

Bolt torque rating

Bolt size	Torque (Nm)
M12	70–80
M14	90–100
M16	100–120

Tighten in diametrically opposite pairs. The source torque section specifies 2 or 3 turns per pass; installation Step 5 specifies 1 or 2 turns. Confirm the applicable tightening procedure for the supplied assembly.

Installation notes

Couplings should remain exposed until pressure tested on site. The manufacturer cannot be held liable for excavating leaking couplings. Do not encase in concrete. A reduced bolt torque may be required when installing on GRP pipe and certain AC pipes.

Setting gap reference

Coupling DN (mm)	Sleeve width (mm)	Recommended gap (mm)	Max. gap (mm)
Up to DN200	100	16	32
Over DN250 – DN700	160	20	40
Over DN700 – DN1600	200	20	40

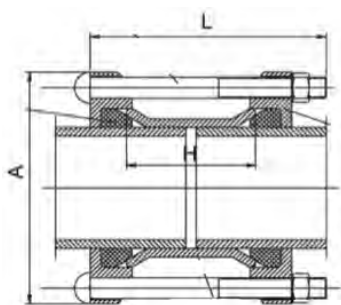
The source gap table extends beyond this guide's stated DN40–DN600 size range and leaves the interval above DN200 through DN250 unclear. Its sleeve widths must not be equated automatically with the L column in the size table. Confirm the applicable row and pipe-end gap for the exact coupling.

Size reference

Size and range reference

SIZE	RANGE	A	L	L	Qty
DN40	48-63	165	100	M12*180	2
DN50	59-72	180	95	M12*180	2
DN65	72-85	180	95	M12*180	3
DN80	88-103	190	95	M12*180	4
DN100	93-117	200	95	M12*180	4
DN100	107-128	214	95	M12*180	4
DN125	138-153	250	95	M12*180	4
DN150	155-175	278	105	M12*200	4
DN150	159-182	278	105	M12*200	4
DN175	192-210	300	130	M12*220	4
DN200	218-235	324	130	M12*220	4
DN225	250-267	406	130	M12*230	6
DN250	235-252	406	130	M12*230	6
DN250	271-289	440	130	M12*230	6
DN300	315-332	452	130	M12*230	6
DN300	322-339	463	130	M12*230	6
DN300	324-350	510	165	M12*230	6
DN300	345-375	510	165	M12*230	6
DN350	374-391	510	165	M16*250	8
DN400	400-429	560	165	M16*250	8
DN400	417-437	560	165	M16*250	8
DN400	455-472	560	165	M16*250	8
DN450	480-500	560	165	M16*250	8
DN500	500-535	560	165	M16*250	8
DN500	526-546	630	165	M16*250	8
DN500	555-572	700	165	M16*250	10
DN600	600-630	700	165	M16*250	10
DN600	630-650	700	165	M16*250	10

Both L headings are retained as printed. The first L column contains numeric values; the second contains bolt designations such as M12*180. Do not treat them as the same dimension. Confirm the current drawing, symbols and units before dimensional use.



Universal Coupling section drawing. Confirm the L and A references for the selected assembly.