

INSTALLATION GUIDE

Universal Flange Adaptor

Installation guide

DN40–DN600 | AQF-IG-UFA-001 | R3

Preparation and sealing

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



AQUAFITTING Universal Flange Adaptor.

External restraint is essential

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

01 Examine the pipe end

Ensure the pipe end is round, smooth and free from bulges, dents, score marks, scale, rust and loose debris. Check that the pipe diameter is within the range provided for the adaptor. Weld beads must be ground flush while maintaining the correct surface profile.

02 Check the gasket grade

Check that the grade of gasket is suitable for the conveyed medium.

03 Check seal lubrication

Check that the outer tapered face of the rubber seal is sufficiently lubricated where it contacts the adaptor body casting. If not, apply a suitable lubricant. Lubrication prevents the rubber from pinching between the adaptor end ring and cast body and assists installation.



Cleaning the seal.



Applying suitable lubricant.



Checking the seal in the body.

Positioning and tightening

04 Align and mark

Align the product with the pipe already in position. Mark the pipe end at a distance equal to or greater than the overall assembled width of the adaptor. Place the adaptor wholly on one pipe end.

05 Position and finger-tighten

Adjust the setting gap between pipe ends as necessary. Using the marks made in Step 4, position the adaptor over the pipe end and finger-tighten the bolts equally. Finger-tightening allows the installer to centre the product around the pipe.

06 Tighten opposite bolts progressively

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



Finger-tightening.



Positioning the adaptor.



Tightening on the pipe.

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; the installation step specifies 1 or 2 turns. In both sections, the end ring is drawn up evenly to the prescribed final torque.

Installation notes

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

Setting-gap applicability

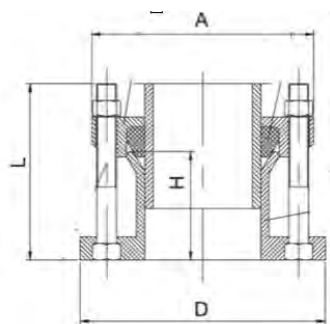
No numerical setting gap is specified in this guide. Confirm the required pipe-to-mating-flange arrangement and gap on the assembly drawing.

Size reference

Size and range reference

SIZE	RANGE	A	D	L	Qty
DN40	48-63	165	165	M12*130	2
DN50	59-72	180	187	M12*130	2
DN65	72-85	180	222	M12*130	2
DN80	88-103	190	227	M12*130	4
DN100	93-117	204	227	M12*130	4
DN100	107-128	214	227	M12*130	4
DN125	138-153	250	287	M12*130	4
DN150	155-175	278	287	M12*140	4
DN150	159-182	278	287	M12*140	4
DN175	192-210	300	340	M12*140	4
DN200	218-235	324	340	M12*140	4
DN225	250-267	406	402	M12*140	4
DN250	235-252	406	402	M12*140	4
DN250	271-289	406	406	M12*140	4
DN300	315-332	440	482	M12*140	6
DN300	322-339	452	482	M12*140	6
DN300	324-350	463	482	M12*140	6
DN300	345-375	510	520	M12*180	8
DN350	374-391	510	520	M16*180	8
DN400	400-429	560	580	M16*180	8
DN400	417-437	560	580	M16*180	8
DN400	455-472	560	580	M16*180	8
DN450	480-500	630	640	M16*180	10
DN500	500-535	700	715	M16*180	10
DN500	526-546	700	715	M16*180	10
DN500	555-572	700	715	M16*180	10
DN600	600-630	830	840	M16*180	10
DN600	630-650	830	840	M16*180	10

Original headings and values are retained. The L column contains bolt designations such as M12*130. The source does not define every dimension symbol or give a unit for every column. Confirm the current drawing and column mapping before dimensional use.



Universal Flange Adaptor section drawing: A, D, H and L as indicated.