QUIKCOUP

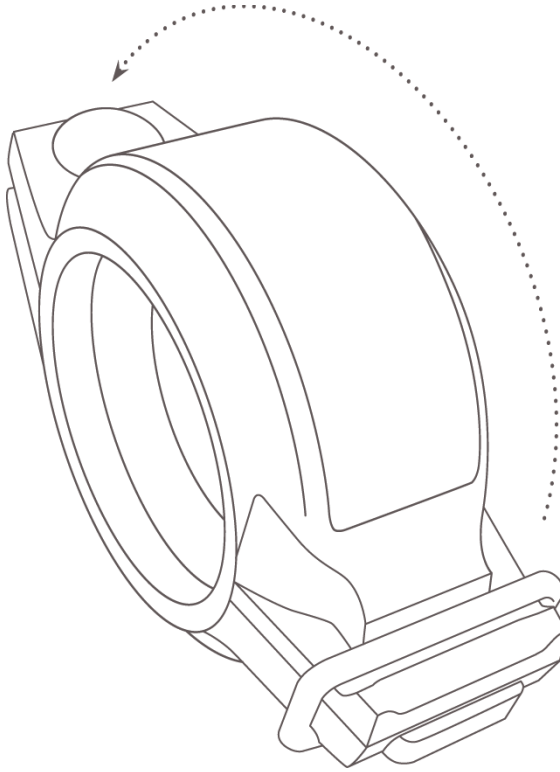
GROOVED PIPE CONNECTION SYSTEM

FIELD INSTALLATION INSTRUCTIONS

PIPE PREPARATION

GASKET GRADE & SELECTION

PRODUCT ASSEMBLY INSTRUCTIONS



MODGAL

MODGAL METAL LTD.

THE COMPANY

Modgal Metal is the manufacturer of the elite QUIKCOUP grooved product line.

With over 50 years of experience, Modgal has the experience and quality systems to use in combination with continuous research and development to produce the highest quality, most innovative grooved couplings and fittings on the market. Modgal is ISO and TS (IATF) certified.

Modgal Metal uses “state of the art” simulation systems to predict casting reliability. The foundry is equipped with latest technology for molding and pouring to insure day-to-day casting quality. Modgal also has the highest quality post processing departments for insuring quality and industry “benchmark” powder coating.

Modgal is experienced in shipping the highest quality product throughout the globe “just-in-time” to satisfy customer expectations

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IMPORTANT REMARKS

Warning

- Always read and understand the installation instructions before starting to work with Quikcoup products.
- Always depressurize and drain the piping system from all fluids before starting to work with Quikcoup products.
- Protect yourself during work. Wear required PPE.
- Always check rubber gaskets for faults, cuts or holes before installing them in the system. Do not use damaged products!
- Not following these warnings and installation instructions can lead to system failure, personal injury and/or other damages.
- While every effort has been made to ensure the accuracy regarding the information in this catalog, anyone that uses the information contained in this catalog does so at their own risk and assumes any liability that results from such use.

Caution during installation

- Make sure gaskets are not pinched during installation. Pinched gaskets must be replaced immediately!
- Make sure oversized pipe or fittings were not used.
- Protect yourself during work. Wear required PPE.
- Make sure bolts have been tightened completely to recommended torque
- Make sure coupling keys are engaged in the grooves. Coupling keys must not rest on the outside surface of the pipe.
- Always re-inspect joints before and after the field test to identify points of possible failure. If any questionable joints exist, depressurize the system, and replace these joints.
- A successful initial system pressure test does not validate proper installation and is not a guarantee of long-term performance.
- Modgal Metal will not assume any liability for pipe joint leakage that may result from an installer's failure to follow Quikcoup's installation instructions.

PIPE PREPARATION

QUIKCOUP grooved-end pipe couplings are designed for use with pipe groove to meet Quikcoup pipe preparation instructions. The following notes are to clarify the headings and data listed in tables, pages 6 and 7.

Column 1
Nominal pipe size.

Column 2
Pipe Outside Diameter. The outside diameter of grooved pipe shall not vary more than the tolerance listed. Internal or external weld bead or seams must be ground flush with the pipe surface extending 2" back from the pipe end. Squarness of pipe ends (Max. Deviation from square cut ends):

- up to 3" -> 0.031"
- 4" to 6" -> 0.047"
- Over 6" -> 0.062"

Column 3
"A" Dimension- The "A" dimension or distance from pipe ends to the groove controls gasket seating area. This area must be free from indentations, rust, or roll marks from the end of the pipe to the groove to provide a leaktight seat for the gasket.
Column 4

"B" Dimension - The "B" dimension, or groove width controls expansion and angular deflection by the distance it is located from the end of the pipe and its width in relation to the coupling groove "key" width.

Column 5
"C" Dimension - The "C" dimension is the proper diameter at the base of the groove. This must be within diameter tolerance and concentric with the O.D. for proper coupling fit. The groove must be of uniform depth for the entire pipe circumference.

Column 6
"D" Dimension -The "D" dimension is the nominal depth of the groove and is a reference for a Trial Groove Only. This dimension must be altered, if necessary to keep dimension "c" within stated tolerance. The Groove must Conform to the "C" dimension.

Column 7
T Dimension - Minimum wall ("T" dimension) is the lightest grade or thickness of pipe suitable for roll grooving or for cut grooving.

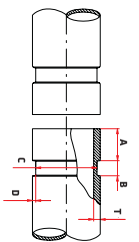
Column 8
FLARE Standard (Roll Groove Only) - Maximum allowable pipe end flare diameter measured at the most extreme pipe end diameter.

PIPE PREPARATION

Standard Cut Groove Dimensions

1	2			3	4	5		6	7
Nominal Size (Inches)	Pipe Outside Diameter			Gasket Seat A	Groove Width B	Groove Diameter C		Groove Depth D	Min. Allow. Wall Thick. T
	Basic	Tolerance		±0.03"	±0.03"	Basic	Tol. +0.00"	(Ref.)	
1"	1,315	+ 0.013	- 0.013	0.625	0.313	1.190	- 0.015	0.063	0.133
1¼"	1,660	+ 0.016	- 0.016	0.625	0.313	1.535	- 0.015	0.063	0.140
1½"	1,900	+ 0.019	- 0.019	0.625	0.313	1.775	- 0.015	0.063	0.145
2"	2,375	+ 0.024	- 0.024	0.625	0.313	2.250	- 0.015	0.063	1.154
2½"	2,875	+ 0.029	- 0.029	0.625	0.313	2.720	- 0.018	0.078	0.188
3"	3,500	+ 0.035	- 0.035	0.625	0.313	3.344	- 0.018	0.078	0.188
4"	4,500	+ 0.045	- 0.045	0.625	0.375	4.334	- 0.020	0.083	0.203
5"	5,563	+ 0.056	- 0.056	0.625	0.375	5.395	- 0.020	0.084	0.203
6"	6,625	+ 0.063	- 0.063	0.625	0.375	6.455	- 0.022	0.085	0.219
8"	8,625	+ 0.063	- 0.063	0.750	0.438	8.441	- 0.025	0.092	0.238
10"	10,750	+ 0.063	- 0.063	0.750	0.500	10.562	- 0.027	0.094	0.250
12"	12,750	+ 0.063	- 0.063	0.750	0.500	12.531	- 0.030	0.109	0.279
14"	14,000	+ 0.063	- 0.063	0.938	0.500	13.781	- 0.030	0.109	0.281
16"	16,000	+ 0.063	- 0.063	0.938	0.500	15.781	- 0.030	0.109	0.312

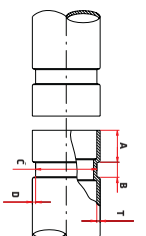
All sizes in inches unless otherwise stated. Definition for columns, see page 5



PIPE PREPARATION

Standard Roll Groove Dimensions

1	2			3	4	5		6	7	8
Nominal Size (Inches)	Pipe Outside Diameter			Gasket Seat A	Groove Width B	Groove Diameter C		Groove Depth D	Min. Allow. Wall Thick. T	Max. Allow. Flare Diam.
	Basic	Tolerance		±0.03"	±0.03"	Basic	Tol.+0.00"	(Ref.)		
1"	1,315	+ 0.013	- 0.013	0.625	0.281	1.190	- 0.015	0.063	0.065	1.430
1¼"	1,660	+ 0.016	- 0.016	0.625	0.281	1.535	- 0.015	0.063	0.065	1.770
1½"	1,900	+ 0.019	- 0.019	0.625	0.281	1.775	- 0.015	0.063	0.065	2.010
2"	2,375	+ 0.024	- 0.024	0.625	0.344	2.250	- 0.015	0.063	0.065	2.480
2½"	2,875	+ 0.029	- 0.029	0.625	0.344	2.720	- 0.018	0.078	0.083	2.980
3"	3,500	+ 0.035	- 0.035	0.625	0.344	3.344	- 0.018	0.078	0.083	3.600
4"	4,500	+ 0.045	- 0.045	0.625	0.344	4.334	- 0.020	0.083	0.083	4.600
5"	5,563	+ 0.056	- 0.056	0.625	0.344	5.395	- 0.020	0.084	0.109	5.660
6"	6,625	+ 0.063	- 0.063	0.625	0.344	6.455	- 0.022	0.085	0.109	6.730
8"	8,625	+ 0.063	- 0.063	0.750	0.469	8.441	- 0.025	0.092	0.109	8.800
10"	10,750	+ 0.063	- 0.063	0.750	0.469	10.562	- 0.027	0.094	0.134	10.920
12"	12,750	+ 0.063	- 0.063	0.750	0.469	12.531	- 0.030	0.109	0.156	12.920
14"	14,000	+ 0.063	- 0.063	0.938	0.469	13.781	- 0.030	0.109	0.156	14.100
16"	16,000	+ 0.063	- 0.063	0.938	0.469	15.781	- 0.030	0.109	0.156	16.100



All sizes in inches unless otherwise stated. Definition for columns, see page 5

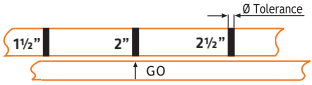
PIPE PREPARATION

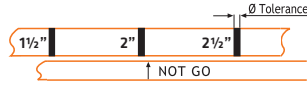
Check grooves and gasket seat width

Groove Diameter Gauge

- This simple and efficient gauge was designed to measure the pipe groove diameter "C" of roll grooved steel pipes at Nominal Size up to 24".

1 Pull out enough band from the tape measure to create a ring of a diameter similar to that of the pipe being checked.
2 Place the band into the groove and firmly pull the band on each end.
3 Determine if the origin arrow is within the "groove diameter range"-band for the applicable pipe size. The origin arrow must be within this black band for conformance to Quikcoup groove specifications (see figure).





Gasket Seat Width Gauge

- This useful "Go/Not Go" blade gauge was designed for measuring gasket seat "A" and groove width "B" dimensions, of Roll grooved steel pipes up to 16" Nominal Size (Inches / DN) in compliance with Quikcoup Roll Groove engineering data (listed on page 7).

1 Select one of the blades that is suitable to the pipe diameter you intend to check.
2 Hold the gauge so that lettering "Go" is faced toward you. (Fig. 1)
3 Position the gauge over the groove and gasket seat. The gauge should fit in and clamp the gasket seat (see figure No. 1).
4 Turn the blade so that the letting "Not Go" is faced towards you. (Fig. 2)
5 Position the gauge so that the one tooth is touching the edge of the pipe. The tooth at the edge of the gauge should not fit into the groove (see figure No. 2).

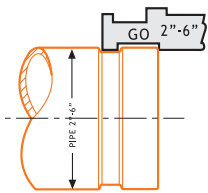


Fig. 1

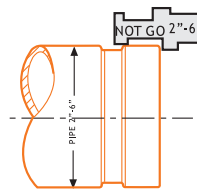


Fig. 2

PIPE PREPARATION

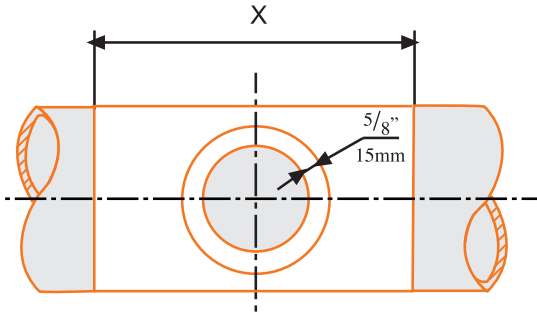
Style 08T/08G/87G/88T & Style 99

- Check for the required hole diameter size for Style 08T/08G/87G/88T & Style 99 in the product data sheets in our Quikcoup catalog.

- Cut a hole in the pipe wall at the desired location. The center of the hole must be on the center line of the pipe. To ensure a good sealing and satisfactory service, make sure that the hole diameter is in accordance with the specified dimensions.

- Smooth the edges of the hole carefully to ensure proper functioning after assembly.

- Remove burrs and be sure that the pipe surface is free of dirt about 5/8" around the hole to ensure proper sealing. The band "X" shown in the drawing below around the entire pipe must be likewise clean and smooth for the same reason.



GASKET SELECTION

Gasket Grade & Gasket Selection

The tables below provide assistance, not as a guarantee, in selecting the gasket grade for the intended service. The range of applications shown is of general nature only. It should be noted that there are specific services for which the gaskets are not recommended. In order to assure maximum gasket service life for each specific service, the optimal gasket grade requires consideration of the following factors: fluid temperature, fluid concentration and continuity of service.Unless otherwise noted, all gasket recommendations are based upon ambient working temperature service condition.

For unusual or unspecified services, please contact Modgal Metal Ltd. for evaluation and recommendation.

Specifications

Grade	Working temp. range	Gasket material	Marking	Service recommendations \ applications
EP	-30°F to + 230°F -34°C to + 110°C	EPDM	Green Strip	For use in cold & hot water (up to +230°F /+110 °c), variety of diluted acids, oil free air and other chemical services. (Not recommended for petroleum services).
NT	-20°F to + 180°F -29°C to + 82°C	Nitrile	Orange Strip	For use in variety of petroleum products, hydrocarbons, air with oil vapor (up to +150°F/ +65°C) mineral oil and water waste (Not recommended for hot water services).
L	-30°F to + 350°F -34°C to + 177°C	Silicone	Red Gasket	For use in dry heat, air without hydrocarbons to +350 °F and high temperature chemical services.
O	+20°F to + 300°F -7°C to + 149°C	Fluoro-elastomer (Viton)	Blue Stripe	Recommended for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic fluids and air with hydrocarbons.
EP	-30°F to +230°F -34°C to +110°C	EPDM	Violet Stripe	Pre-lubricated gaskets for use in sprinkler systems only. No lubricant should be applied during installation.

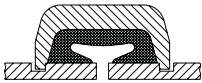
Air, Water and Petroleum Applications

Applications	Recomended Gasket Grade
Air, oil-free, temp. -30°F to +230°F / -34°C to + 110°C	EP
Air, oil vapor, temp -20°F to + 180°F / -18°C to + 82°C	NT
Air (no oil vapors) -30°F to + 350°F / -34°C to + 177°C	L
Water, temp, upto + 150°F / + 66°C	EP/NT
Water, temp, upto + 230°F / + 110°C	EP
Water acid mine	EP/NT
Water, seawater	EP
Water, waste	EP/NT
Water, steam	Not Recommended
Petrol / Gasoline (leaded)	NT/O
Petroleum oils	NT/O

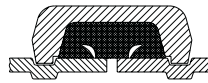
GASKET SELECTION

Gasket Types

QUIKCOUP offers a variety of gaskets types for a wide range of applications and services. Each gasket type serves a specific application. The sealing effect is enhanced by pressure or vacuum in the line.

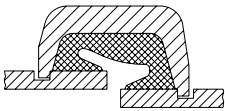


Standard

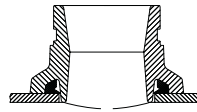


Flush Seal

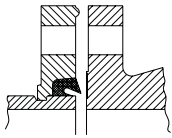
Flush Seal Gasket is recommended in vacuum and dry sprinkler piping systems.



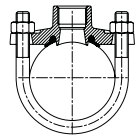
Style 71



Quik-T for style 08, 88



Style 90



Style 99 Quiklet

BOLT TORQUE

All Quikcoup products with standard ANSI Bolts and Nuts should be equally torqued, unless stated otherwise, and conform to the specifications mentioned in the table below.

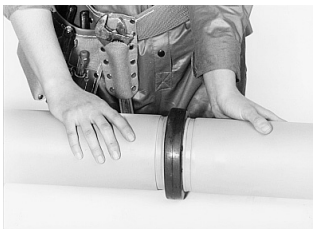
Boltsize	Bolt Torque (Nm: Newton meter)
	Min. - Max.
3/8" x 2"	41Nm - 68Nm
3/8" x 2.1/4"	41Nm - 68Nm
3/8" x 2.3/8"	41Nm - 68Nm
1/2" x 3"	120Nm - 150Nm
5/8" x 3.1/2"	135Nm - 175Nm
5/8" x 4.3/4"	135Nm - 175Nm
3/4" x 4.3/4"	200Nm - 270Nm
3/4" x 5.1/2"	200Nm - 270Nm
7/8" x 7.1/8"	270Nm - 340Nm

ASSEMBLY INSTRUCTIONS

Style 007 / 007RT One-Bolt Coupling

- Check the pipe ends. The groove must be of uniform depth and dimensions conform to Quikcoup specifications. Both pipe ends should be free of indentations, rust or roll marks from the end of pipe to the groove.
- Loosen the nut, swing the coupling halves open and take out the gasket.

- Check the color code of gasket to make sure it is the correct type for service intended. If the gasket is not pre-lubed, coat with a thin layer of Quikcoup 27-XL lubricant the gasket lips, gasket exterior (CAUTION: Guard lubricant surfaces against dirt setting on them).
- Slip gasket on pipe, ensuring that it does not protrude over the end of the pipe.



- Bring the two pipe ends together and align them.
- Slide gasket forward so that it covers the gap and rests at an equal distance from each groove.
- The grooves must be clear to receive the coupling.

- Open the coupling halves to the maximum and place the coupling over the gasket so that coupling keys (tenons) make good contact in the grooves.

- Swing the bolt and nut to the intended bolt-slot.

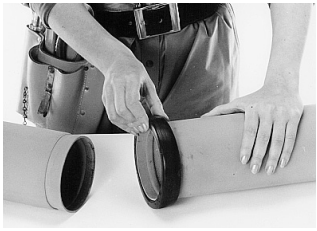
- Tighten the nut bringing coupling halves together (metal to metal), then apply specified torque to ensure proper contact between coupling halves.

- Important: Make sure that the coupling halves make good contact in the groove.

ASSEMBLY INSTRUCTIONS

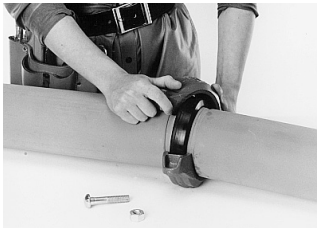
Style 75 / 75 RT / 07 / S2-75 / S2-75RT Coupling

- Check the pipe ends. The groove must be of uniform depth and dimensions conform to Quikcoup specifications.Both pipe ends should be free of indentations, and rust or roll marks from the end of pipe to the groove.
- Loosen the nuts, swing the coupling halves open and take out the gasket.



- Check the color code of gasket to make sure it is the correct type for service intended. If the gasket is not pre-lubed, coat with a thin layer of Quikcoup 27-XL lubricant the gasket lips, gasket exterior. (CAUTION: Guard lubricant surfaces against dirt setting on them.)
- Slip gasket on pipe, ensuring that it does not protrude over the end of the pipe.

- Bring the two pipe ends together and align them.
- Slide gasket forward so that it covers the gap and rests at an equal distance from each groove.
- The grooves must be clear to receive the coupling.

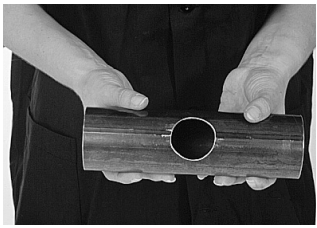


- Place the coupling halves over the gasket so that coupling keys (tenons) make good contact in the grooves.
- Insert the bolts into their holes and turn nuts until finger-tight.

- Tighten the nuts alternately and equally bringing coupling halves together (metal to metal*).
- Important: Make sure that the coupling halves make good contact in the groove.
- For style 75RT and S2-75RT couplings, an intended gap of up to 0.078" is permitted evenly at each pad to allow for positive rigid gripping onto the pipe.

ASSEMBLY INSTRUCTIONS

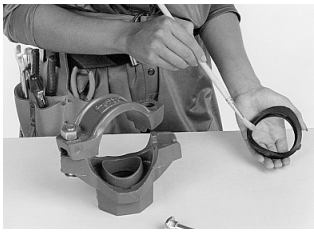
Assembly Style 08 Quik-T™



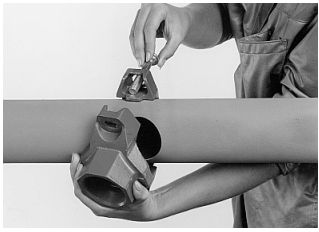
- The area within 5/8" of hole must be clean and perfectly smooth to ensure sealing. A band of 5/8" from each side of the hole must be clean and perfectly smooth and free of dirt and rust projections to ensure tight sealing around the pipe.

See information on pipe preparation page 9.

- Remove one nut completely, while the other nut should be loosened enough to enable the Quik-T™ to be opened sufficiently wide to slip over pipe.



- Remove the gasket and check the color code of gasket to make sure it is the correct type for service intended. Coat with a thin layer of QUIKCOUP 27-XL lubricant all surfaces of the gasket. CAUTION: Guard lubricant surfaces against dirt setting on them.
- Re-insert gasket into casing using the allignment bulges for proper positioning.



- Turn the lower casing away from the upper one. Place the outlet part on the pipe axially aligned with the hole. Turn the lower part until it fits snugly round the pipe and align it with the upper part. Place the throat properly in the hole.
- Re-insert the removed bolt and tighten the nuts until finger-tight.

- Tighten the nuts alternately and equally leaving equal gaps between the bolt pads. Apply specified torque to ensure proper sealing.

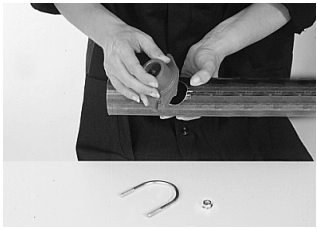
ASSEMBLY INSTRUCTIONS

Assembly Style 99 Quiklet™

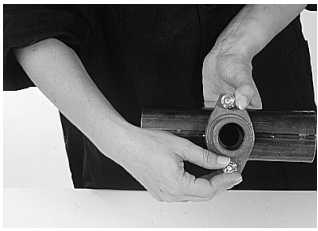
- The area within 5/8" of hole must be clean and perfectly smooth to ensure sealing. A band of 5/8" from each side of the hole must be clean and perfectly smooth and free of dirt and rust projections to ensure tight sealing around the pipe.

See information on pipe preparation page 9.

- Remove one nut in order to remove the U-bolt from the Quiklet™ in order to place it on the pipe.
- Remove the gasket and check the color code of gasket to make sure it is the correct type for service intended.



- CAUTION: For wet based applications do NOT coat the gasket with lubricant! For dry pipe and freezer aplications, use a petroleum-free silicon based lubricant.
- Re-insert gasket into casing using the allignment bulges for proper positioning.

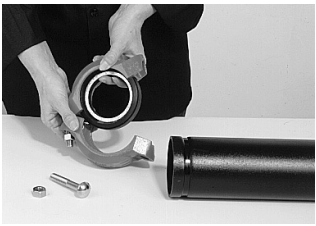


- Place the Quiklet™ over the hole on the pipe axially aligned with the hole. Make sure the leading edge of the gasket does not intersect with the hole and sits smoothly over the pipe's surface with the throat properly placed inside the hole. Check this by gently moving the Quiklet™, pushing it down at the same time.

- Hold the coupling in position and tighten the nuts alternately and equally leaving equal gaps between the U-bolt pads. Apply specified torque to ensure proper sealing.

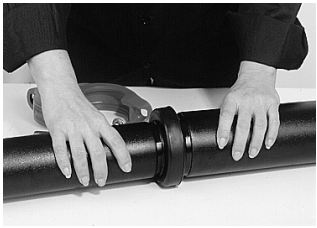
ASSEMBLY INSTRUCTIONS

Assembly Style 71 Reducing Coupling



- Check the pipes ends. The groove must be of uniform depth and dimensions conform to Quikcoup specifications. Both pipe ends should be free of indentations, and rust or roll marks from the end of pipe to the groove.
- Loosen the nuts, swing the coupling halves open and take out the gasket.

- Check the color code of gasket to make sure it is the correct type for service intended.
- Coat with a thin layer of QUIKCOUP 27-XL lubricant the gasket lips, gasket exterior. (CAUTION: Guard lubricant surfaces against dirt setting on them.)



- Assemble the larger side of the reducing gasket over the larger pipe end until the Steel Washer touches the pipe end. (Make sure the steel washer is inside the reducing gasket.)
- Insert the smaller pipe end in the reducing gasket with a slightly twisting motion of the pipe. The pipe end will stop on the steel washer.

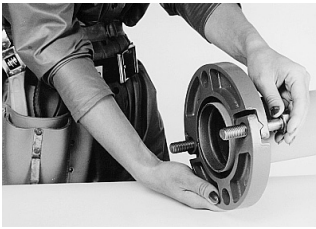
- Place the coupling halves over the reducing gasket so that coupling keys (tenons) make good contact in the grooves.
- Place the bolts and nuts into the intended bolt-slots.

- Tighten the nuts alternately, bringing coupling halves together (metal to metal),. Then apply specified torque to ensure proper contact between coupling halves. Important: Make sure that the coupling halves make good contact in the grooves.

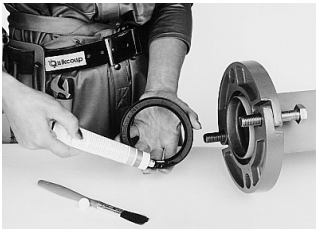
ASSEMBLY INSTRUCTIONS

Assembly Style 90 Quikflange™

- Open the Quikflange™ halves to the maximum and place it around the grooved pipe end with the flange keys (tenon) into the groove. The gasket cavity should face the pipe end.

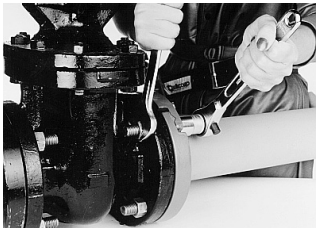


- Insert standard bolt through mating bolt holes opposite the hinge to ensure that the Quikflange™ rests firmly in the groove.



- Check the color code of gasket to make sure it is the correct type for service intended.
- Coat with a thin layer of Quikcoup 27-XL lubricant on the gasket lips, gasket exterior. (CAUTION: Guard lubricant surfaces against dirt setting on them.)

- Stretch the gasket around the pipe end and press it into the cavity between the pipe OD and the Quikflange™. The gasket is properly inserted when the sealing lips face the pipe end and the mating flange.
- The part of the gasket in contact with the pipe should not protrude over the end of the pipe. Apply an additional thin layerQuikcoup 27-XL lubricant to the outer lip which seals the mating flange.



- Make sure the matching flange face is free of any identation which may prevent positive sealing.
- Align the Quikflange™ bolt through the hole of the mating flange. Hand-tighten the nut. Insert the next bolt opposite the first, hand-tighten it and add the remaining bolts following the same procedure.
- Tighten all nuts with min 200Nm torque.

FRICTIONAL RESISTANCE DATA

The chart below expresses the frictional resistance of Quikcoup Grooved End Fittings as equivalent length (ft.) of straight pipe.

Fittings that are not listed can be interpolated from the data given.

For example: a Style 42 - 22½° elbow is approximately one-half resistance of a Style 64 - 45° elbow of the same size.

Nominal Size (Inches / DN)	Pipe Outside Diameter	Style 64 Elbow 45°	Style 04 Elbow 45°	Style 66 Elbow 45°	Style 06 Elbow 90°	Style 05 Tee		Style 65 Tee	
						Main line	Branch line	Main line	Branch line
		equivalent length in ft.	equivalent length in ft.	equivalent length in ft.	equivalent length in ft.	equivalent length in ft.	equivalent length in ft.	equivalent length in ft.	equivalent length in ft.
1" / 25	1,315	-	-	1.9	1.9	1.6	4.3	1.6	4.3
1¼" / 32	1,660	1.0	1.0	1.9	1.9	1.9	4.8	1.9	4.8
1½" / 40	1,900	1.2	1.2	2.3	2.3	2.3	5.8	2.3	5.8
2" / 50	2,375	1.6	1.6	3.2	3.2	3.2	8.0	3.2	8.0
2½" / 65	2,875	2.0	2.0	3.9	3.9	3.9	9.8	3.9	9.8
3" OD	3,000	2.1	2.1	4.1	4.1	4.1	10.3	4.1	10.3
3" / 80	3,500	2.4	2.4	4.9	4.9	4.9	12.2	4.9	12.2
4" OD	4,250	3.3	3.3	6.5	6.5	6.5	16.3	6.5	16.3
4" / 100	4,500	3.3	3.3	6.5	6.5	6.5	16.3	6.5	16.3
5" OD	5,250	4.0	4.0	8.0	8.0	8.0	20.0	8.0	20.0
5" OD	5,500	4.1	4.1	8.0	8.0	8.0	20.0	8.0	20.0
5" / 125	5,563	4.1	4.1	8.2	8.2	8.2	20.5	8.2	20.5
6" OD	6,250	4.8	4.8	9.5	9.5	9.5	23.8	9.5	23.8
6" OD	6,500	4.8	4.8	9.5	9.5	9.5	23.8	9.5	23.8
6" / 150	6,625	5.0	5.0	9.9	9.9	9.9	24.8	9.9	24.8
8" / 200	8,625	6.6	6.6	13.1	13.1	13.1	32.8	13.1	32.8
10" / 250	10,750	8.3	8.3	16.5	16.5	16.5	41.3	16.5	41.3
12" / 300	12,750	9.9	9.9	23.0	23.0	19.9	49.7	19.9	49.7

NOTES & SKETCHES

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WARRANTY FOR QUIKCOUP

Modgal Metal (99) Ltd. ("Modgal") warrants its products against defects in materials and workmanship when paid for and properly installed and maintained, under normal conditions of use and service, for a period of five (5) years following the receipt of the products by the buyer. Products found by Modgal to be defective shall be either replaced or repaired, at Modgal's sole option.

THE BUYER'S SOLE AND EXCLUSIVE REMEDY SHALL BE FOR THE REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS AS PROVIDED HEREIN.

This warranty shall not apply to any product which has been subject to misuse, negligence or accident, which has been repaired or altered outside of Modgal's factory, or which has not been installed or maintained in accordance with Modgal's then-current installation manuals, instructions or recommendations. Modgal shall not be responsible for design errors due to inaccurate or incomplete information supplied by buyer or its representatives. Items and/or components purchased by Modgal and resold to the buyer will have the original equipment manufacturer's warranty extended to the buyer.

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QUIKCOUP

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