



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.

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.
- Make sure the bolts have been tightened fully.



- Protect yourself during work. Wear safety clothing.
- Always check rubber gaskets carefully for defaults, cuts or holes before installing them in the system. Do not use damaged products!

- 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.

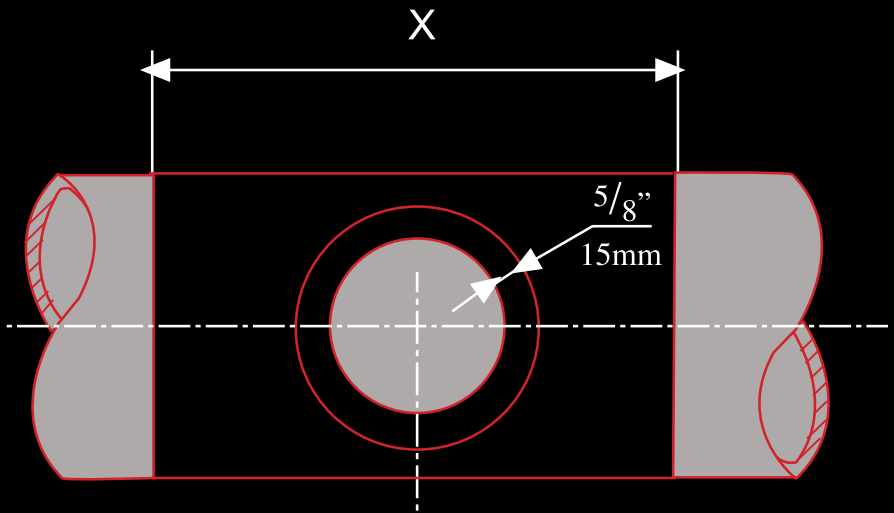


- Not following these warnings and installation instructions can lead to system failure, personal injury and/or other damages.
- While every effort has been made to ensure the accuracy regarding the information in this catalog, anyone that uses the information contained in this catalog does so at their own risk and assumes any liability that results from such use.

- 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 for
Style 08T/08G/87G/88T & Style 99**

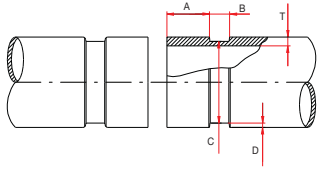
- Check for the required hole diameter size, the tables on pages 18-21 for Quik-T™ or Quiklet™.
- Cut a hole in the pipe wall at the desired location. The center of the hole must be on the center line of the pipe. To ensure a good seal and satisfactory service, make sure that the hole diameter is in accordance with the specified dimensions.
- Smooth the edges of the hole carefully to ensure that the throat will fit correctly within the pipe hole for proper functioning.
- 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 to ensure proper sealing.



Bolt torques

- All Quikcoup couplings with standard ANSI or Metric Bolts and Nuts should be equally torqued, unless stated otherwise, conform the specifications mentioned in the table below.
- The table below shows the recommended torque for each bolt size for all Quikcoup products mentioned in this catalogue.

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



Nominal Size (Inches/DN)	Pipe Outside Diameter			Gasket Seat A ±0.03"	Groove Width B ±0.03"	Groove Diameter C		Groove Depth D (Ref.)	Min. Allow. Wall Thick. T
	Basic	Tolerance				Basic	Tol. +0.00"		
1" / 25	1,315	+ 0.013	- 0.013	0.625	0.313	1.190	- 0.015	0.063	0.133
1¼" / 32	1,660	+ 0.016	- 0.016	0.625	0.313	1.535	- 0.015	0.063	0.140
1½" / 40	1,900	+ 0.019	- 0.019	0.625	0.313	1.775	- 0.015	0.063	0.145
2" / 50	2,375	+ 0.024	- 0.024	0.625	0.313	2.250	- 0.015	0.063	1.154
2½" / 65	2,875	+ 0.029	- 0.029	0.625	0.313	2.720	- 0.018	0.078	0.188
3" OD	3,000	+ 0.030	- 0.030	0.625	0.313	2.845	- 0.018	0.078	0.188
3" / 80	3,500	+ 0.035	- 0.035	0.625	0.313	3.344	- 0.018	0.078	0.188
4" OD	4,250	+ 0.043	- 0.043	0.625	0.375	4.084	- 0.020	0.083	0.213
4" / 100	4,500	+ 0.045	- 0.045	0.625	0.375	4.334	- 0.020	0.083	0.203
5" OD	5,250	+ 0.053	- 0.053	0.625	0.375	5.084	- 0.020	0.083	0.213
5" OD	5,500	+ 0.056	- 0.056	0.625	0.375	5.334	- 0.020	0.083	0.203
5" / 125	5,563	+ 0.056	- 0.056	0.625	0.375	5.395	- 0.020	0.084	0.203
6" OD	6,250	+ 0.063	- 0.063	0.625	0.375	6.032	- 0.022	0.085	0.219
6" OD	6,500	+ 0.063	- 0.063	0.625	0.375	6.330	- 0.022	0.085	0.219
6" / 150	6,625	+ 0.063	- 0.063	0.625	0.375	6.455	- 0.022	0.085	0.219
8" / 200	8,625	+ 0.063	- 0.063	0.750	0.438	8.441	- 0.025	0.092	0.238
10" / 250	10,750	+ 0.063	- 0.063	0.750	0.500	10.562	- 0.027	0.094	0.250
12" / 300	12,750	+ 0.063	- 0.063	0.750	0.500	12.531	- 0.030	0.109	0.279
14" / 350	14,000	+ 0.063	- 0.063	0.938	0.500	13.781	- 0.030	0.109	0.281
16" / 400	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.

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 26 and 27.

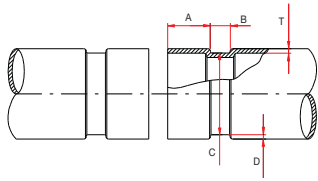
Column 1
Nominal pipe size.

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 50mm back from the pipe end. Squariness of pipe ends (Max. Deviation from square cut ends):

- up to 3" -> 0.031" (0.8mm)
- 4" to 6" -> 0.047" (1.2mm)
- Over 6" -> 0.062" (1.6mm)

Column 3
"A" Dimension- The "A" dimension or distance from pipe ends to groove provides 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 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 housing "key" width.



Nominal Size (Inches/DN)	Pipe Outside Diameter			Gasket Seat A ±0.03"	Groove Width B ±0.03"	Groove Diameter C		Groove Depth D (Ref.)	Min. Allow. Wall Thick. T	Max. Allow. Flare Diam.
	Basic	Tolerance				Basic	Tol. +0.00"			
1" / 25	1,315	+ 0.013	- 0.013	0.625	0.281	1.190	- 0.015	0.063	0.065	1.430
1¼" / 32	1,660	+ 0.016	- 0.016	0.625	0.281	1.535	- 0.015	0.063	0.065	1.770
1½" / 40	1,900	+ 0.019	- 0.019	0.625	0.281	1.775	- 0.015	0.063	0.065	2.010
2" / 50	2,375	+ 0.024	- 0.024	0.625	0.344	2.250	- 0.015	0.063	0.065	2.480
2½" / 65	2,875	+ 0.029	- 0.029	0.625	0.344	2.720	- 0.018	0.078	0.083	2.980
3" OD	3,000	+ 0.030	- 0.030	0.625	0.344	2.845	- 0.018	0.078	0.083	3.100
3" / 80	3,500	+ 0.035	- 0.035	0.625	0.344	3.344	- 0.018	0.078	0.083	3.600
4" OD	4,250	+ 0.043	- 0.043	0.625	0.344	4.084	- 0.020	0.083	0.091	4.350
4" / 100	4,500	+ 0.045	- 0.045	0.625	0.344	4.334	- 0.020	0.083	0.083	4.600
5" OD	5,250	+ 0.053	- 0.053	0.625	0.344	5.084	- 0.020	0.083	0.109	5.350
5" OD	5,500	+ 0.056	- 0.056	0.625	0.344	5.334	- 0.020	0.083	0.109	5.600
5" / 125	5,563	+ 0.056	- 0.056	0.625	0.344	5.395	- 0.020	0.084	0.109	5.660
6" OD	6,250	+ 0.063	- 0.063	0.625	0.344	6.032	- 0.022	0.085	0.109	6.350
6" OD	6,500	+ 0.063	- 0.063	0.625	0.344	6.330	- 0.022	0.085	0.109	6.600
6" / 150	6,625	+ 0.063	- 0.063	0.625	0.344	6.455	- 0.022	0.085	0.109	6.730
8" / 200	8,625	+ 0.063	- 0.063	0.750	0.469	8.441	- 0.025	0.092	0.109	8.800
10" / 250	10,750	+ 0.063	- 0.063	0.750	0.469	10.562	- 0.027	0.094	0.134	10.920
12" / 300	12,750	+ 0.063	- 0.063	0.750	0.469	12.531	- 0.030	0.109	0.156	12.920
14" / 350	14,000	+ 0.063	- 0.063	0.938	0.469	13.781	- 0.030	0.109	0.156	14.100
16" / 400	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.

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 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.

INSTALLATION INSTRUCTIONS / Gasket Grade & Gasket Selection

The tables below provide assistance (not as guarantee), in selecting the optional 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.

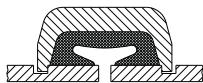
Unless otherwise noted, all gasket recommendations are based upon ambient working temperature service condition. For unusual or unspecified services, please contact Modgal Metal Ltd. for evaluation and recommendation.

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 +177 °C and high temperature chemical services.
O	+20°F to +300°F -7°C to +149°C	Fluoro-elastomer (Viton)	Bleu 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.
D	-30°F to +150°F -34°C to +66°C	Sunflex T8184	White Stripe	For drinking water applications. Approved by DVGW & OVGW.

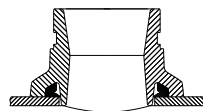
Air, Water and Petroleum Applications	
Applications	Recommended Gasket Grade
Air, oil-free, temp. -30°F to +230°F / -34°C to +110°C	EP
Air, oil vapor, temp -20°F to +180°F / -18°C to +82°C	NT
Air (no oil vapors) -30°F to +350°F / -34°C to +177°C	L
Water, temp, upto +150°F / +66°C	EP/NT
Water, temp, upto +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 TYPES

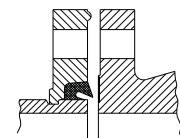
QUIKCOUP offers a variety of gaskets types for a wide range of applications and services. Each gasket type serves a specific application. The sealing effect is enhanced by pressure or vacuum in the line.



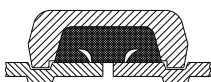
Standard



Quik-T for style 08, 88

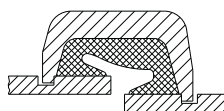


Style 90

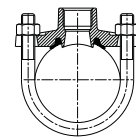


Flush Seal

Flush Seal Gasket is recommended in vacuum services and dry sprinkler piping systems. Available in sizes range DN32 to DN 200, with all QUIKCOUP couplings types.



Style 71



Quiklet for style 99

INSTALLATION INSTRUCTIONS / Gasket Grade & Gasket Selection

Unless otherwise noticed, all gasket listings are based on ambient temperature service conditions.

Where its possible, materials should be subjected to simulated service conditions for determining their suitability to the service

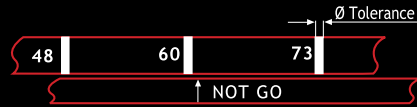
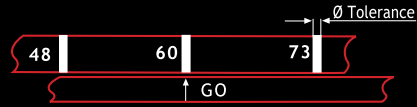
intended. For service not listed, please contact the factory for recommendations.

Chemical Application	Gasket Grade	Chemical Application	Gasket Grade	Chemical Application	Gasket Grade	Chemical Application	Gasket Grade	Chemical Application	Gasket Grade
acetic acid 50%	EP	calcium liquors	EP	fluoroboric acid	EP	nickel nitrate	EP	sodium silicate	EP
acetone	EP	cane suger liquors	NT	fluorosilicic acid	EP	c max nitric acid to 10% 24	EP	sodium sulphide	EP
acetaldehyde	EP	carbitol	EP	fly ash	EP	nitrous oxide	EP	sodium sulphite solution to 20%	EP
acethlene	EP	carbon dioxide , dry	EP	formadehyde	EP	octyl alcohol	NT	stannous chloride to 15%	EP
alkalis	EP	carbon dioxide , wet	EP	formic acid	EP	olive oil	NT	strach	EP
alums	EP	carbon monoxide	EP	freon 11 , 54° c max	NT	oxalic acid	EP	stearic acid	NT
aluminium chloride	EP	carbon tetrachloride	L	freon 12, 113,114,115 54° c max	NT	ozone	NT	styrenez	L
aluminum fluoride	EP	castor oil	N T	fructose	NT	phosphate ester	EP	sucrose solutions	NT
aluminum hydroxide	EP	cellosolve	EP	gasoline, refined	NT	phosphoric acid to 75% and 21° c max	EP	sulphor	EP
aluminum nitrate	EP	chlorobenzene	L	glucose	EP	phosphoric acid to 85% and 66° c max	L	sulphric acid to 25% 66° c max	EP
aluminum salts	EP	chlorobenzene chloride	L	glue	NT	photographic solutions	NT	tetrachlorethylene	L
ammonia gas, cold	EP	chloroform	L	glycerin	EP	plating solutions (gold, brass, cadium, copper, lead, silver, tin, zinc)	EP	toluene	L
ammonia liquid	EP	chrome alum	EP	glycerol	EP	potassium bromide	EP	trichloroethylen 93° c max	L
ammonium chloride	EP	chrome plating solutions	L	glycol	EP	potassium carbonate	EP	triethanolamine	EP
ammonium fluoride	EP	citric acid	L	halon 1301	EP	potassium chloride	EP	turpentine 70° c max	NT
ammonium hydroxide	EP	coconut oil	NT	hepatane	NT	potassium chromate	NT	urea	EP
ammonium nitrate	EP	coke oven gas	NT	hexaldehyde	EP	potassium cyanide	EP	vegetable oils	NT
amyl acetate	EP	copper carbonate	EP	hexane	NT	potassium ferricyanide	EP	vinegar	NT
amyl alcohol	EP	copp r chloride	EP	hexylane glycol	NT	potassium ferrocyanide	EP	white liquor	EP
aniline	EP	copper cyanide	EP	hydrochloric acid , to 36% , 24° c max	EP	potassium hydroxide	NT	xylene(xylol) 70° c max	L
animal fats	NT	copper silphate	EP	hydrofluosilicic acid	NT	potassium iodide	EP	zinc sulphate	NT
arsenic acid, to 75%	NT	corn oil	NT	hydrogen peroxide , to 50%	EP	potassium nitrate	EP		
barium carbonate	EP	cotton seed oil	NT	hydroquinone	NT	potassium permanganate , saturated to 25%	EP		
barium chloride	EP	cresole, cresylic acid	NT	hydrogen sulfide	EP	potassium sulphate	EP		
barium hydroxide	EP	cresole wood	NT	isooctane	NT	propanol	EP		
barium nitrate	EP	cupric chloride	EP	isobutyl alcohol	EP	propyl alcohol	EP		
barium sulphide	EP	cupric fluoride	EP	isopropyl alcohol	EP	propylene glycol	EP		
beet sugar liquors	NT	cupric sulphate	EP	lactic acid	NT	pydraul 312c	L		
benzene	L	cychohexanol	L	lead acetate	EP	pyroguard 55	EP		
benzoic acid	L	diacetone alcohol	EP	linseed oil	NT	pyrrole	EP		
benzyl alcohol	EP	dichlorobenzene	L	lithium bromide	NT	salicylic acid	EP		
benzyl chloride	EP	dichloroethylene	L	magnesium chloride	EP	silver cyanide	EP		
black sulfate liquor	NT	diesel oil	NT	magnesium hydroxide	EP	silver nitrate	EP		
borax	EP	epson salt	EP	magnesium nitrate	EP	soda ash, sodium carbonate	EP		
boric acid	EP	ethane	EP	magnesium sulphate	EP	sodium bicarbonate	EP		
bromine	L	ethanolamine	EP	malonyl nitrile	EP	sodium bisulphate	EP		
butyl alcohol	EP	ethyl alcohol	EP	mercuric chloride	EP	sodium bisulphate (black liquor)	EP		
butyl stearate	EP	ethyl chloride	EP	mercuric cyanide	EP	sodium bromide	EP		
bulyene	NT	ethylene chlorohydrin	EP	mercury	EP	sodium chlorate	EP		
calcium bisulphate	NT	ethylene dimine	EP	methyl alcohol methanol	EP	sodium chloride	EP		
calcium bisuphide	NT	ethylene dichloride (dichloroethane)	L	methyl cellosolve(ether)	EP	sodium cyanide	EP		
calcium bisulphite	NT	ethylene glycol	EP	methyl formate	EP	sodium hydroxide to 50%	EP		
calcium carbonate	EP	ferric chloride, to 35%	EP	methyl isobutyl carbinol	EP	sodium hypochlorite to 20%	EP		
calcium chloride	EP	ferric nitrate	EP	mineral oils	NT	sodium metaphosphate	EP		
calcium hydroxide (lime)	EP	ferric sulphate	EP	naphtha 71° c max	L	sodium nitrate	EP		
calcium sulfate	EP	ferrous chloride	EP	naphthalene 80° c	L	sodium peroxide	EP		
calcium sulfide	EP	fish oils	NT	nickel chloride	EP	sodium phosphate	EP		

Groove Diameter Gauge

- This simple and efficient gauge was designed to control the pipe groove diameter "C" of roll grooved steel pipes at Nominal Size up to 24" (610mm).

- 1 Pull out enough band from the meter 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" blades gauge was Design for controlling gasket seat "A" and groove width "B" dimensions, of Roll grooved steel pipes up to 16" (400mm) Nominal Size (Inches / DN) in compliance with Quikcoup Roll Groove engineering data (listed on page 33).

- 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.
- 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.
- 5 Position the gauge so that the projections tooth touching the edge of the pipe. The tooth at the edge of the gauge should not fit into the groove (see figure No. 2).

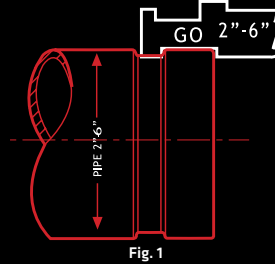


Fig. 1

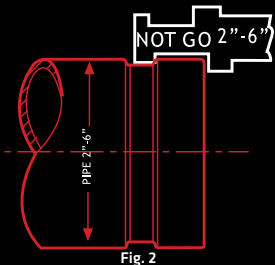


Fig. 2

