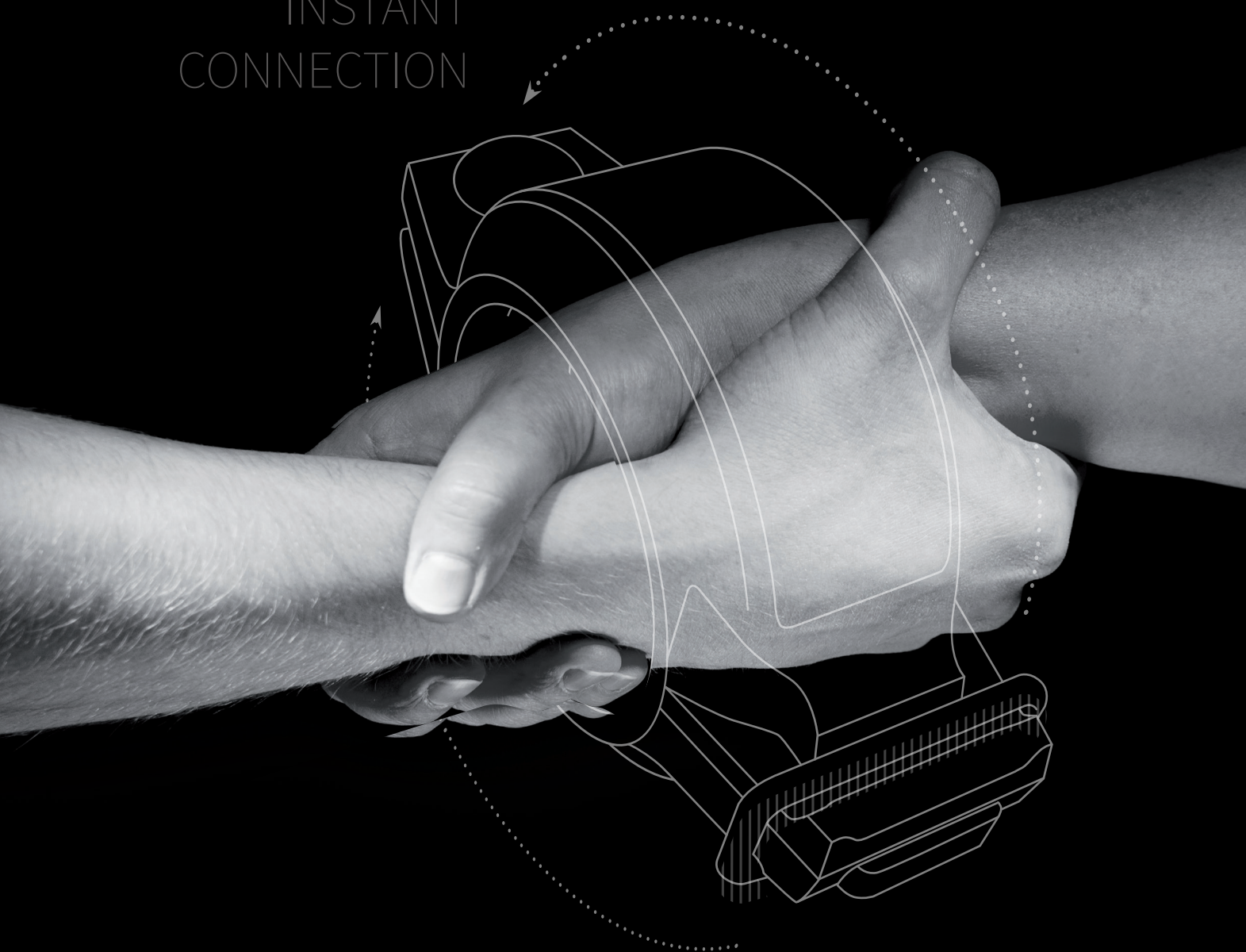


QUIKCOUP

GROOVED PIPES CONNECTION SYSTEM **EN**

THE SOLID
INSTANT
CONNECTION



MODGAL METAL LTD.

THE COMPANY

Modgal Metal is the manufacturer of the elite QUIKCOUP grooved product line. ISO 9001:2008 Certified. With over 50 years of experience, Modgal has developed expertise, and versatility. Combined with continuous research and development, Modgal designs and produces superior grooved couplings and fittings for the worldwide market.

Modgal Metal operates an in-house CAD-CAM-system, as well sophisticated simulation pouring systems at the engineering and design department. A modern equipped foundry with up-to-date advanced technology, galvanizing, powder coating and modern machining departments.

All these facilities are intended for reliable, efficient, and quick answers to the needs of the modern markets of today.



Modgal Metal (99) Ltd.

Z.H.R. Industrial Zone

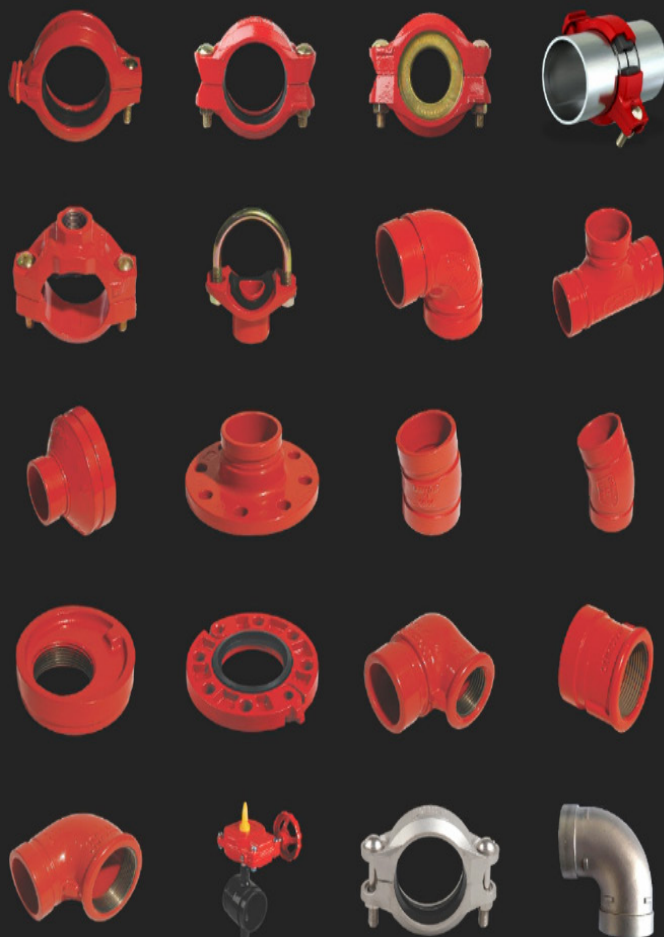
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email: modgalmetal@modgal-metal.com

website: www.modgalmetal.com / www.quikcoup.eu

QUIKCOUP

Full line of
grooved products
in size range
1" to 16"



MODGAL QUIKCOUP / Index

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QUIKCOUP

THE QUIKCOUP GROOVED PIPES CONNECTION SYSTEM

The QUIKCOUP grooved couplings and fittings system is one of the most advanced piping connection methods available. It is reliable, versatile, and economical.

QUIKCOUP GROOVED PRODUCTS INCORPORATE

A VARIETY OF GROOVED COUPLINGS AND FITTINGS, HOLE-CUT AND THREADED COMPONENTS, AND CROSS-CONNECTION ADAPTERS.

QUIKCOUP OFFERS SOLUTIONS OF A VARIETY OF PIPING SYSTEMS. ALL PRODUCTS ARE AVAILABLE IN WITH POWDER COATING OR GALVANIZED COATING FINISH.

The Advantage

- Innovative design enables simple, fast and inexpensive installation; with no need for special tools or training
- Fast assembly by using the unique single bolt Quikcoup style 007RT and 001RT coupling designed
- Substantial savings in both time and money from elimination of threading / welding / flanged connections; savings in time from faster installations
- Approvals for use with thin-walled tubes, reducing both weight and price of system
- Available in powder coating of any color or galvanized coating finish

ONE SYSTEM FOR ALL APPLICATIONS

- Sprinkler (wet and dry and nitrogen sprinkler systems)
- Industrial applications (process pipes, sewers, compressed air lines...)
- Hot and Cold water installations
- HVAC (heating, cooling water, and refrigerant lines)
- Waste-water systems
- Snow-making applications
- Tunnels
- More applications



Schedule 7 thin wall pipes approval available for Quikcoup couplings. Please consult Modgal technical support.

Style 007
One Bolt Flexible Coupling
One Bolt / Nut

Hinge

Coupling Housing

Rubber Gasket

Groove

Pipe

One Bolt / Nut



GENERAL 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 safety clothing.
- Always check rubber gaskets carefully for defaults, 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.

COUPLINGS / Notes

TABLE HEAD LINES TRANSLATION

For any questions regarding the represented data in this catalogue, please contact your local distributor or Modgal Metal Ltd.

English	Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Coupling Dimensions (Inch / mm)			Bolts (Inch / mm)		Max. End Load in (lb/N) ‡	Allowed Pipe End Separation (Inch / mm) §	Max. Deflection (from center line)		Approvals
			A	B	C	No.	Size x Length			Degrees per Cplg	in/ft cm/m	

WARNING

Always read and understand the installation instructions. Rubber gaskets have to be greased with Quikcoup Lubricant Type 27-XL on inside and outside before installation.

§ ALLOWED PIPE END SEPARATION

Figures indicating allowable pipe end separation refer to standard weight steel pipe with standard cut groove and in accordance with Quikcoup pipe Preparation and Installation Instructions. Figures for standard roll groove will be one half of the above values.

‡ MAXIMUM END LOAD

Figures indicating maximum end load refer to standard weight steel pipe with standard cut groove and in accordance with Quikcoup® pipe Preparations and Installation Instructions.

RIGID COUPLINGS

Quikcoup rigid couplings provide rigid transfixing of the pipes. The rigid couplings are designed to bring the pipe ends closely together and clamp the coupling firmly onto the pipes outside diameter. Rigid couplings clamp around the complete pipe surface, which provides resistance to flexural and tensional loads permitting longer spacing to installations in power piping systems, building service systems and sprinkler systems.

FLEXIBLE COUPLINGS

Quikcoup flexible couplings can be used as expansion joints, allowing linear and angular movement of the pipe. Flexible couplings are designed to be installed without gripping the bottom of the grooves, while still providing a restrained mechanical joint. Therefore, flexible couplings allow pipe expansion and contraction, vibration absorption and misalignment of pipes.

COATING, FINISHING AND GASKET

- Modgal Metal 99 prides itself in creating a variety and bespoke color coating schemes to costumers, ranging from multi-national corporations to local micro-organizations.
- Applications ranging from fire protection systems to drinking water supply systems.
- Corrosion protection and resistance.



- Double coated corrosion resistant paint.
- Developed for salty environments, marine and salt industrial environments.
- Comply with for C4 and C5 environment requirements.
- supplied with stainless steel bolts and nuts.
- available in many paints and hues.

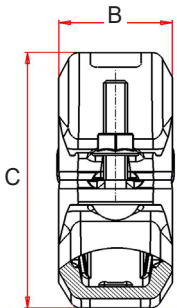
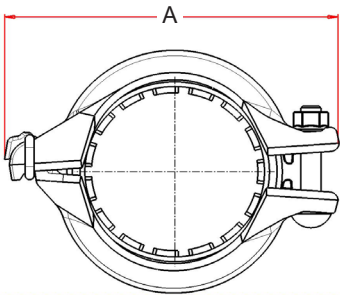


- Available in blue (RAL 5010).
- Developed for potable water supply systems.
- **WRAS approved.**



- All couplings available with regular or pre lubricated gaskets.
- Wide temperature range, cold to hot:
-34°C to 110°C / -29°F to 230°F.

COUPLINGS / Style 001RT QUIKFIT™ (RIGID)



ONE BOLT RIGID COUPLING

Max. working pressure: 300 psi / 20 bar



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Coupling Dimensions (Inch / mm)			Bolts (Inch / mm)			Max. End Load (lb/N) ‡	Allowed Pipe End Separation (Inch / mm) §	Approvals	
		A	B	C	No.	Size x Length					
1"/25	1.315	4.02	1.79	2.32	1	3/8	x	2 3/8	416	0.12-0.20	FM
	33.7	102	45.5	59		M10		60	1850	3.0 –5.0	
1 1/4"/32	1.660	4.41	1.77	2.72	1	3/8	x	2 3/8	663	0.12-0.20	FM / UL
	42.4	112	45	69		M10		60	2950	3.0 –5.0	
1 1/2"/40	1.900	4.57	1.77	2.95	1	3/8	x	2 3/8	868	0.12-0.20	FM / UL
	48.3	116	45	75		M10		60	3860	3.0 –5.0	
2"/50	2.375	5.08	1.77	3.39	1	3/8	x	2 3/8	1347	0.12-0.20	FM / UL
	60.3	129	45	86		M10		60	5990	3.0 –5.0	
2 1/2"	2.875	5.71	1.85	3.94	1	3/8	x	2 3/8	1983	0.12-0.20	FM / UL
	73.0	145	47	100		M10		60	8820	3.0 –5.0	
3"O.D/65	3.000	5.83	1.85	4.09	1	3/8	x	2 3/8	2136	0.12-0.20	FM
	76.1	148	47	104		M10		60	9500	3.0 –5.0	
3"/80	3.500	6.54	1.89	4.57	1	3/8	x	2 3/8	2941	0.12-0.20	FM / UL
	88.9	166	48	116		M10		60	13080	3.0 –5.0	
4"/100	4.500	7.87	1.97	5.87	1	3/8	x	2 3/4	4739	0.12-0.20	FM / UL
	114.3	200	50	149		M10		70	21080	3.0 –5.0	

001RT BOLT TORQUE:

3/8 / M10 : 73-81 ft-lb / 100-110 N·m

One Bolt Coupling designs reduce labor costs by reducing installation times.
QUIKFIT™ Gaskets reduce labor costs by reducing installation times.

INSTALLATION INSTRUCTIONS / Assembly Style 001RT

QUIKFIT™ One Bolt Coupling

■DO NOT DISASSEMBLE THE 001RT COUPLING!

Style 001RT couplings are installation ready,

do not remove bolt and nut for installation.

- 1 Check the pipes ends. The groove must be of uniform depth and its 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.

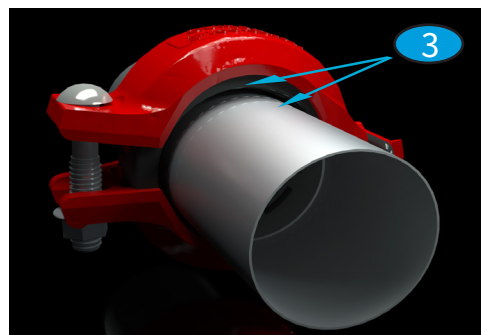
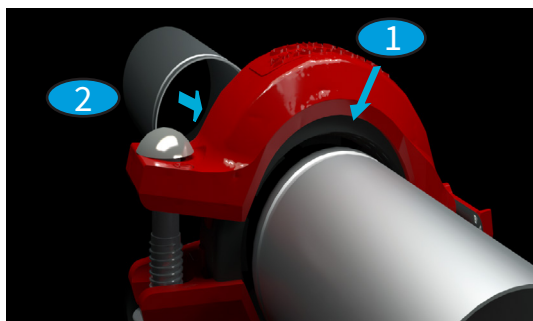
- 2 ASSEMBLE THE JOINT by inserting the grooved ends of the pipes or mating components into each side of the the coupling.

■The ends of the grooved pipes/ or mating components must be inserted into the coupling until contact with the center leg of the gasket occurs.

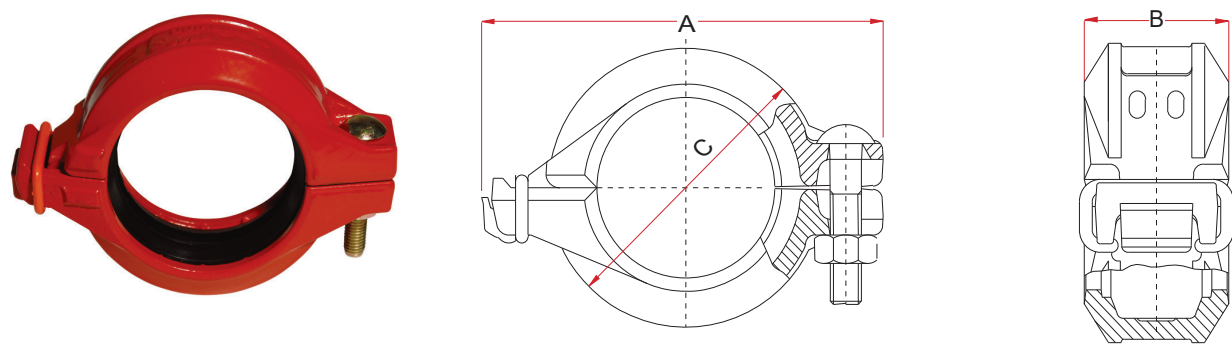
- 3 A visual check is required to ensure the coupling keys align with the grooves in the pipes /mating components.
NOTE: The coupling may be rotated to ensure the gasket is seated properly.

■TIGHTEN THE NUT bringing coupling halves together (metal to metal), then apply specified torque, listed on p.8, to ensure proper contact between coupling halves.

■ IMPORTANT: Make sure the housing keys completely engage the grooves of the pipes or mating components.



COUPLINGS / **Style 007** QUIKHINGE™ (FLEXIBLE)

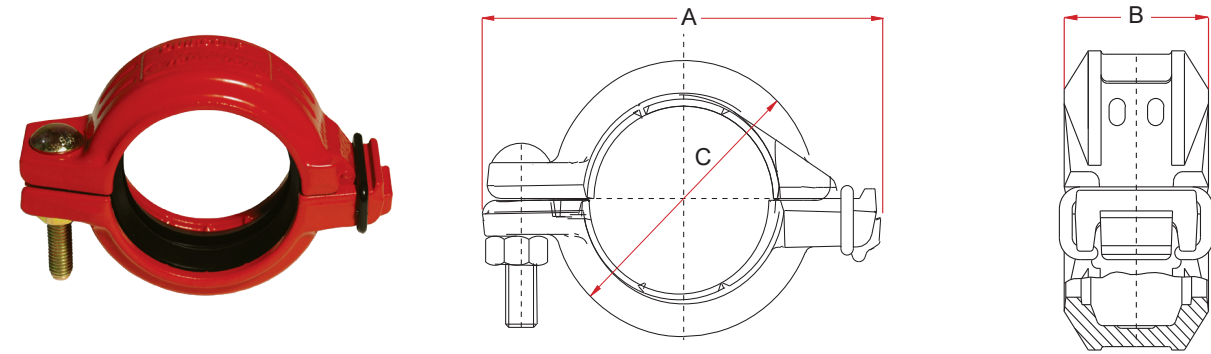


ONE BOLT FLEXIBLE COUPLING

Max. working pressure: 232 psi / 16 bar

Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Coupling Dimensions (Inch / mm)			Bolts (Inch / mm)			Max. End Load (lb/N) ‡	Allowed Pipe End Separation (Inch / mm) §	Max. Deflection (from center line)		Approvals	
		A	B	C	No.	Size x Length				Deg. per Cplg	in/ft cm/m		
1"/25	1.315	3.94	1.73	3.61	1	3/8	x	2	315	0-0.13	3°25'	0.720	FM / UL / VDS
	33.7	100	44	60		M10		51	1401	0-3.2		6	
1¼"/32	1.660	4.37	1.73	2.68	1	3/8	x	2	503	0-0.13	3°	0.624	FM / UL / VDS
	42.4	111	44	68		M10		51	2237	0-3.2		5.2	
1½"/40	1.900	4.53	1.69	2.91	1	3/8	x	2	659	0-0.13	2°40'	0.564	FM / UL / VDS
	48.3	115	43	74		M10		51	2930	0-3.2		4.7	
2"/50	2.375	5.08	1.77	3.50	1	3/8	x	2	1027	0-0.13	2°25'	0.504	FM / UL / VDS
	60.3	129	45	89		M10		51	4567	0-3.2		4.2	
2½"	2.875	5.59	1.77	3.86	1	3/8	x	2¼	1505	0-0.13	2°	0.420	FM / UL
	73.0	142	45	98		M10		57	6693	0-3.2		3.5	
3"O.D/65	3.000	5.71	1.77	4.02	1	3/8	x	2¼	1640	0-0.13	2°	0.420	FM / UL / VDS
	76.1	145	45	102		M10		57	7293	0-3.2		3.5	
3"/80	3.500	6.50	1.77	4.61	1	3/8	x	2¼	2231	0-0.13	1°50'	0.384	FM / UL / VDS
	88.9	165	45	117		M10		57	9926	0-3.2		3.2	
4"/100	4.500	7.79	1.81	5.87	1	3/8	x	2¼	3689	0-0.25	2°25'	0.504	FM / UL / VDS
	114.3	198	46	149		M10		57	16409	0-6.4		4.2	
5½" O.D/ 125	5.500	9.80	2.05	7.13	1	½	x	3½	5511	0-0.25	2°	0.420	FM / VDS
	139.7	249	52	181		M12		89	24512	0-6.4		3.5	
6½" O.D	6.500	10.71	2.05	8.19	1	½	x	3½	7697	0-0.25	1°30'	0.312	FM
	165.1	272	52	208		M12		89	34236	0-6.4		2.6	
6"/150	6.625	10.71	2.05	8.19	1	½	x	3½	7998	0-0.25	1°30'	0.312	FM / UL / VDS
	168.3	272	52	208		M12		89	35576	0-6.4		2.6	

COUPLINGS / **Style 007RT** QUIKHINGE™ (RIGID)

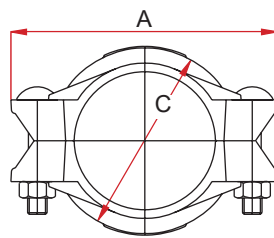
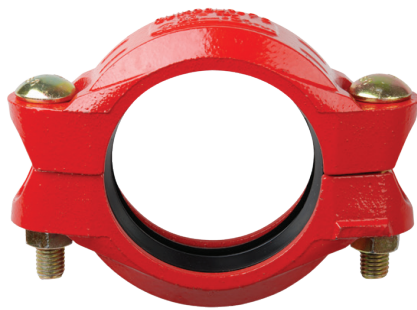


ONE BOLT RIGID COUPLING

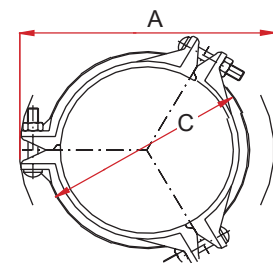
Max. working pressure: **300 psi** / 20 bar

Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Coupling Dimensions (Inch / mm)			Bolts (Inch / mm)				Max. End Load (lb/N) ‡	Allowed Pipe End Separation (Inch / mm) §	Approvals
		A	B	C	No.	Size x Length					
1¼"/32	1.660	4.251	1.732	2.559	1	¾	x	2	629	0-0.04	FM / VDS
	42.4	108	44	65		M10		51	2796	0 – 1.0	
1½"/40	1.900	4.488	1.732	2.795	1	¾	x	2	823	0-0.04	FM / UL / VDS
	48.3	114	44	71		M10		51	3663	0 – 1.0	
2"/50	2.375	5.078	1.771	3.346	1	¾	x	2	1283	0-0.04	FM / UL / VDS
	60.3	129	45	85		M10		51	5709	0 – 1.0	
2½"	2.875	5.590	1.771	3.740	1	¾	x	2¼	1881	0-0.04	FM / UL
	73.0	142	45	95		M10		57	8367	0 – 1.0	
3"O.D/65	3.000	5.708	1.771	3.818	1	¾	x	2¼	2049	0-0.04	FM / UL / VDS
	76.1	145	45	97		M10		57	9116	0 – 1.0	
3"/80	3.500	6.531	1.811	4.448	1	¾	x	2¼	2789	0-0.04	FM / UL / VDS
	88.9	166	46	113		M10		57	12408	0 – 1.0	
4"/100	4.500	7.806	1.811	5.786	1	¾	x	2¼	4611	0-0.04	FM / UL / VDS
	114.3	198	46	147		M10		57	20511	0 – 1.0	
5½" O.D/125	5.500	9.565	1.968	6.771	1	½	x	3	6888	0-0.12	FM / UL / VDS
	139.7	243	50	172		M12		76	30640	0 – 3.0	
5"	5.562	9.821	2.047	7.125	1	½	x	3½	7044	0-0.12	FM
	141.3	250	52	181		M12		89	31334	0 – 3.0	
6½" O.D	6.500	10.864	2.047	8.188	1	½	x	3½	9661	0-0.12	FM
	165.1	276	52	208		M12		89	42795	0 – 3.0	
6"/150	6.625	10.668	1.968	7.952	1	½	x	3	9997	0-0.12	FM / UL / VDS
	168.3	271	50	202		M12		76	44470	0 – 3.0	

COUPLINGS / **Style 75** (FLEXIBLE)



Nominal size: 1¼"-12"



Nominal size: 14"-16"

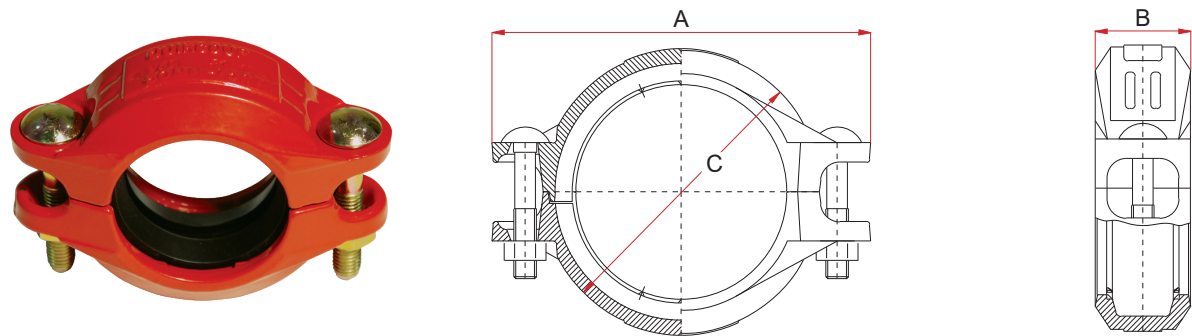


LIGHTWEIGHT FLEXIBLE COUPLING

Max. working pressure: **500 psi** / 34 bar

Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Coupling Dimensions (Inch / mm)			Bolts (Inch / mm)			Max. End Load (lb/N) †	Allowed Pipe End Separation (Inch / mm) §	Max. Deflection (from center line)		Approvals	
		A	B	C	No.	Size x Length				Deg. per Cplg	in/ft cm/m		
1¼"/32	1.660	4.09	1.81	2.76	2	¾	x	2	1084	0-0.13	4°10'	0.884	FM / UL / VDS
	42.4	104	46	70		M10		51	4823	0 – 3.2		7.4	
1½"/40	1.900	4.49	1.81	3.07	2	¾	x	2	1420	0-0.13	3°56'	0.842	FM / UL / VDS
	48.3	114	46	78		M10		51	6318	0 – 3.2		7.0	
2"/50	2.375	4.92	1.81	3.58	2	¾	x	2	2214	0-0.13	3°25'	0.714	FM / UL / VDS
	60.3	125	46	91		M10		51	9847	0 – 3.2		6.0	
2½"	2.875	5.59	1.81	4.02	2	¾	x	2	3244	0-0.13	2°49'	0.590	FM / UL / VDS
	73.0	142	46	102		M10		51	14432	0 – 3.2		4.9	
3"O.D/65	3.000	5.67	1.81	4.17	2	¾	x	2	3535	0-0.13	2°23'	0.530	FM / UL / VDS
	76.1	144	46	106		M10		51	15725	0 – 3.2		4.4	
3"/80	3.500	6.38	1.81	4.69	2	½	x	3	4812	0-0.13	1°05'	0.226	FM / UL / VDS
	88.9	162	46	119		M12		76	21404	0 – 3.2		1.9	
4¼" O.D	4.250	7.80	2.01	5.67	2	½	x	3	7101	0-0.25	2°30'	0.534	FM / UL / VDS
	108.0	198	51	144		M12		76	31589	0 – 6.4		4.5	
4" / 100	4.500	7.80	1.97	5.91	2	½	x	3	7954	0-0.25	3°23'	0.708	FM / UL / VDS
	114.3	198	50	150		M12		76	35382	0 – 6.4		5.9	
5¼" O.D	5.250	9.37	2.07	6.81	2	⅝	x	3½	10835	0-0.25	1°40'	0.348	FM / UL
	133.4	238	52.5	173		M16		89	48195	0 – 6.4		2.9	
5½" O.D/ 125	5.500	9.69	2.05	7.09	2	⅝	x	3½	11882	0-0.25	2°45'	0.576	FM / VDS
	139.7	246	52	180		M16		89	52854	0 – 6.4		4.8	
5"	5.563	9.69	2.05	7.09	2	⅝	x	3½	11897	0-0.25	2°45'	0.576	FM / UL
	141.3	246	52	180		M16		89	52919	0 – 6.4		4.8	
6¼" O.D	6.250	10.67	2.05	8.15	2	⅝	x	3½	15353	0-0.25	2°09'	0.458	FM / VDS
	159.0	271	53.5	207		M16		89	68295	0 – 6.4		3.8	
6½" O.D	6.500	10.87	2.05	8.15	2	⅝	x	3½	16596	0-0.25	2°12'	0.470	FM / UL
	165.1	276	52	207		M16		89	73822	0 – 6.4		3.9	
6"/150	6.625	10.85	2.05	8.15	2	⅝	x	3½	17245	0-0.25	1°10'	0.250	FM / UL / VDS
	168.3	276	52	207		M16		89	76711	0 – 6.4		2.1	
8"/200	8.625	13.58	2.36	10.59	2	¾	x	4¾	29227	0-0.25	1°41'	0.352	FM / UL / VDS
	219.1	345	60	269		M20		120	130009	0 – 6.4		2.9	
10"/250	10.750	16.14	2.64	13.31	2	⅞	x	7⅞	45376	0-0.25	0°40'	0.144	VDS/UL
	273.0	410	67	338		M22		181	201843	0 – 6.4		1.2	
12"/300	12.750	18.46	2.60	14.80	2	⅞	x	7⅞	63874	0-0.25	0°40'	0.144	VDS
	323.9	469	66	376		M22		181	284126	0 – 6.4		1.2	
14"/350	14.000	20.43	2.87	16.34	3	⅞	x	5½	76989	0-0.25	-	-	-
	355.6	519	73	415		M22		140	342462	0 – 6.4		-	
16"/400	16.000	22.83	2.87	18.50	3	⅞	x	5½	100556	0-0.25	-	-	-
	406.4	580	73	470		M22		140	447297	0 – 6.4		-	

COUPLINGS / **Style 75RT** (RIGID)



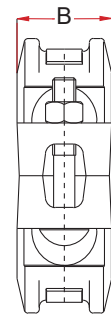
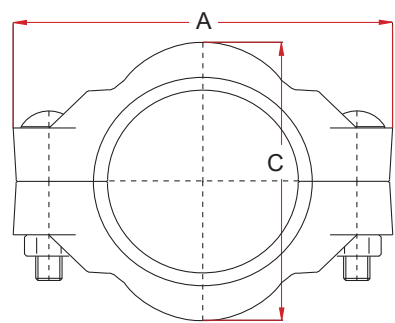
LIGHTWEIGHT RIGID COUPLING

Max. working pressure: **500 psi** / 34 bar

Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Coupling Dimensions (Inch / mm)			Bolts (Inch / mm)				Max. End Load (lb/N) ‡	Allowed Pipe End Separation (Inch / mm) §	Approvals
		A	B	C	No.	Size x Length					
1¼"/32	1.660	4.09	1.81	2.72	2	⅜	x	2	1084	0 - 0.04	FM / UL
	42.4	104	46	69		M10		51	4823	0 – 1	
1½"/40	1.900	4.49	1.81	3.07	2	⅜	x	2	1420	0 - 0.04	FM / UL / VDS
	48.3	114	46	78		M10		51	6318	0 – 1	
2"/50	2.375	4.92	1.81	3.54	2	⅜	x	2	2214	0 - 0.04	FM / UL / VDS
	60.3	125	46	90		M10		51	9847	0 – 1	
2½"	2.875	5.59	1.81	4.09	2	⅜	x	2	3244	0 - 0.04	FM / UL
	73.0	142	46	104		M10		51	14432	0 – 1	
3"O.D/65	3.000	5.67	1.81	4.17	2	⅜	x	2	3535	0 - 0.04	FM / UL / VDS
	76.1	144	46	106		M10		51	15725	0 – 1	
3"/80	3.500	6.38	1.81	4.69	2	½	x	3	4812	0 - 0.04	FM / UL / VDS
	88.9	162	46	119		M12		76	21404	0 – 1	
4"/100	4.500	7.80	1.97	5.87	2	½	x	3	7954	0 - 0.04	FM / UL / VDS
	114.3	198	50	149		M12		76	35382	0 – 1	
5½" O.D/ 125	5.500	9.65	2.05	7.09	2	⅝	x	3½	11882	0 - 0.12	FM / UL / VDS
	139.7	245	52	180		M16		89	52854	0 – 3.0	
5"	5.563	9.65	2.05	7.09	2	⅝	x	3½	11897	0 - 0.12	FM
	141.3	245	52	180		M16		89	52919	0 – 3.0	
6½" O.D	6.500	10.87	2.05	8.15	2	⅝	x	3½	16596	0 - 0.12	FM
	165.1	276	52	207		M16		89	73822	0 – 3.0	
6"/150	6.625	10.83	2.05	8.15	2	⅝	x	3½	17245	0 - 0.12	FM / UL / VDS
	168.3	275	52	207		M16		89	76711	0 – 3.0	
8"/200	8.625	13.58	2.36	10.63	2	¾	x	4¾	29227	0-0.12	FM / UL / VDS
	219.1	345	60	270		M20		120	130009	0 – 3.0	
10"/250 *	10.750	16.54	2.50	12.88	2	⅞	x	5	27210	0-0.13	FM / UL / VDS
	273.0	420	63.5	327		M22		125	121000	0 – 3.2	

*maximum working pressure **300 psi** / 20 bar

COUPLINGS / **Style 07** (HEAVY DUTY FLEXIBLE)



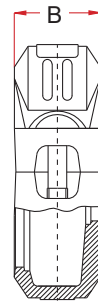
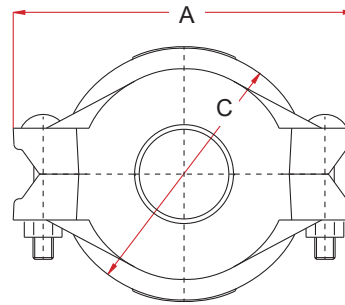
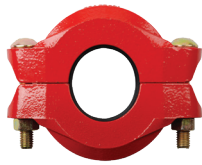
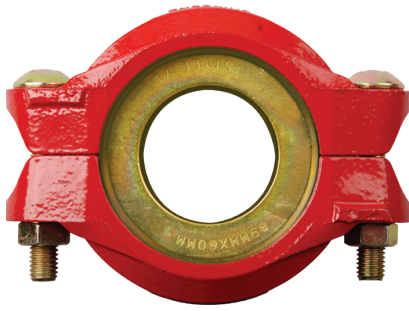
HEAVY DUTY FLEXIBLE COUPLING

Max. working pressure: **1000 psi** / 69 bar

Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Coupling Dimensions (Inch / mm)			Bolts (Inch / mm)				Max. End Load (lb/N) †	Allowed Pipe End Separation (Inch / mm) §	Max. Deflection (from center line)		Approvals
		A	B	C	No.	Size x Length					Deg. per Cplg	in/ft cm/m	
1½"/40	1.900	4.49	1.81	3.19	2	⅜	x	2¼	2841	0-0.13	1°58'	0.421	FM
	48.3	114	46	81	2	M10	x	57	12636	0-3.2		3.5	
2"/50	2.375	5.43	1.89	3.78	2	½	x	3	4428	0-0.13	1°42'	0.360	FM / UL
	60.3	138	48	96	2	M12	x	76	19695	0-3.2		3.0	
2½"	2.875	5.75	1.89	4.33	2	½	x	3	6931	0-0.13	1°22'	0.288	FM / UL
	73.0	146	48	110	2	M12	x	76	30829	0-3.2		2.4	
3"O.D/65	3.000	5.75	1.89	4.33	2	½	x	3	7070	0-0.13	1°22'	0.288	FM
	76.1	146	48	110	2	M12	x	76	31451	0-3.2		2.4	
3"/80	3.500	6.69	1.89	5.12	2	½	x	3	9624	0-0.13	1°05'	0.226	FM / UL
	88.9	170	48	130	2	M12	x	76	42808	0-3.2		1.9	
4"/100	4.500	8.27	2.20	6.38	2	⅝	x	3½	15908	0-0.25	1°40'	0.352	FM / UL
	114.3	210	56	162	2	M16	x	89	70764	0-6.4		2.9	
5½" O.D/ 125	5.500	9.92	2.20	7.56	2	¾	x	4¾	23764	0-0.25	1°25'	0.300	FM
	139.7	252	56	192	2	M20	x	120	105709	0-6.4		2.5	
5"	5.563	9.92	2.20	7.56	2	¾	x	4¾	23764	0-0.25	1°25'	0.300	FM / UL
	141.3	252	56	192	2	M20	x	120	105709	0-6.4		2.5	
6"/150	6.625	11.10	2.20	8.78	2	¾	x	4¾	34491	0-0.25	1°10'	0.238	FM / UL
	168.3	282	56	223	2	M20	x	120	153422	0-6.4		2.0	
8"/200 *	8.625	13.86	2.52	11.18	2	⅞	x	5½	58454	0-0.25	0°51'	0.178	FM / UL
	219.1	352	64	284	2	M22	x	140	260018	0-6.4		1.5	

*maximum working pressure **500 psi** /34 bar

COUPLINGS / Style 71 (REDUCING COUPLING)



REDUCING COUPLING

Max. working pressure: 500 psi / 34 bar

Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Coupling Dimensions (Inch / mm)			Bolts (Inch / mm)			Max. End Load (lb/N) †	Allowed Pipe End Separation (Inch / mm) §	Max. Deflection (from center line)		Approvals
		A	B	C	No.	Size x Length				Deg. per Cplg	in/ft cm/m	
2" x 1½" / 50 x 40	2.375 x 1.900 60.3 x 48.3	4.92 125	1.81 46	3.58 91	2	¾ M10	x	2¼ 57	1420 6318	0-0.13 0-3.2	3°25' 6	FM / UL / VDS
2½" x 2"	2.875 x 2.375 73.0 x 60.3	5.59 142	1.81 46	3.98 101	2	¾ M10	x	2¼ 57	2214 9847	0-0.13 0-3.2	2°49' 4.9	FM / VDS
3" O.D x 2" / 65 x 50	3.000 x 2.375 76.1 x 60.3	5.63 143	1.81 46	4.13 105	2	¾ M10	x	2¼ 57	2214 9847	0-0.13 0-3.2	2°23' 4.4	FM / UL / VDS
3" x 2" / 80 x 50	3.500 x 2.375 88.9 x 60.3	6.34 161	1.81 46	4.72 120	2	½ M12	x	3 76	2214 9847	0-0.13 0-3.2	1°05' 1.9	FM / UL / VDS
3" x 2½"	3.500 x 2.875 88.9 x 73.0	6.38 162	1.81 46	4.72 120	2	½ M12	x	3 76	3244 14430	0-0.13 0-3.2	1°05' 1.9	FM / VDS
3" x 3" O.D / 80 x 65	3.500 x 3.000 88.9 x 76.1	6.34 161	1.81 46	4.76 121	2	½ M12	x	3 76	3535 15725	0-0.13 0-3.2	1°05' 1.9	FM / UL / VDS
4" x 2" / 100 x 50	4.500 x 2.375 114.3 x 60.3	7.80 198	1.97 50	5.87 149	2	½ M12	x	3 76	2214 9847	0-0.25 0-6.4	3°23' 5.9	FM / UL / VDS
4" x 2½"	4.500 x 2.875 114.3 x 73.0	7.80 198	1.97 50	5.79 147	2	½ M12	x	3 76	3244 14430	0-0.25 0-6.4	2°49' 4.9	FM / VDS
4" x 3" O.D / 100 x 65	4.500 x 3.000 114.3 x 76.1	7.80 198	1.97 50	5.87 149	2	½ M12	x	3 76	3535 15725	0-0.25 0-6.4	2°23' 4.4	FM / UL / VDS
4" x 3" / 100 x 80	4.500 x 3.500 114.3 x 88.9	7.80 198	1.97 50	5.87 149	2	½ M12	x	3 76	4812 21404	0-0.25 0-6.4	1°05' 1.9	FM / UL / VDS
5½" O.D x 4" / 125 x 100	5.500 x 4.500 139.7 x 114.3	9.65 245	2.05 52	7.05 179	2	⅝ M16	x	3½ 89	7954 35382	0-0.25 0-6.4	2°45' 4.8	FM / VDS
5" x 4"	5.563 x 4.500 141.3 x 114.3	9.65 245	2.05 52	7.05 179	2	⅝ M16	x	3½ 89	7954 35382	0-0.25 0-6.4	2°45' 4.8	FM / UL
6½" O.D x 3"	6.500 x 3.500 165.1 x 88.9	10.83 275	2.05 52	8.15 207	2	⅝ M16	x	3½ 89	4812 21404	0-0.25 0-6.4	1°05' 1.9	FM
6½" O.D x 4"	6.500 x 4.500 165.1 x 114.3	10.83 275	2.05 52	8.15 207	2	⅝ M16	x	3½ 89	7954 35382	0-0.25 0-6.4	2°12' 3.9	FM
6" x 3" / 150 x 80	6.625 x 3.500 168.3 x 88.9	10.83 275	2.05 52	8.15 207	2	⅝ M16	x	3½ 89	4812 21404	0-0.25 0-6.4	1°05' 1.9	FM / UL / VDS
6" x 4" / 150 x 100	6.625 x 4.500 168.3 x 114.3	10.83 275	2.05 52	8.15 207	2	⅝ M16	x	3½ 89	7954 35382	0-0.25 0-6.4	1°10' 2.1	FM / UL / VDS
8" x 6½" O.D	8.625 x 6.500 219.1 x 165.1	13.54 344	2.36 60	10.55 268	2	¾ M20	x	4¾ 120	16596 73822	0-0.25 0-6.4	1°41' 2.9	FM
8" x 6" / 200 x 150	8.625 x 6.625 219.1 x 168.3	13.54 344	2.36 60	10.55 268	2	¾ M20	x	4¾ 120	17245 76711	0-0.25 0-6.4	1°10' 2.1	FM

ELECTRICAL CONTINUITY

ELECTRICAL CONTINUITY
Quikcoup style 007(RT) and style 75(RT) couplings comply to the electric conductivity.

Tests according to clause 11.2 of EN 61386-1 were performed by the Federal Institute of Technology, TGM, in Austria. Test reports are available upon request.

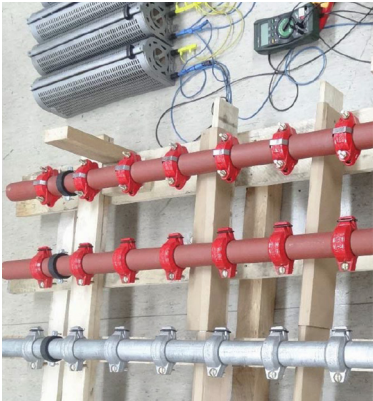
Tests according to EN 60947-7-2:09 & EN 60947-1:07 were performed by the National Certification Body, Electrosuisse, in Switzerland. Test reports are available upon request.

For flexible couplings in painted finish (I.E. Ral3000), electrical continuity clips should be used according to EN 61386-1. Please note that where continuity clips come in contact with painted pipe surface, the paint should be removed to expose bare metal to allow correct conductivity.

For couplings in galvanized finish no continuity clips are needed according to EN 61386-1 to assure electric conductivity.

For EN 60947-7-2:09 & EN 60947-1:07 no continuity clips are needed for both galvanized as well as painted couplings.

Available Continuity clips						
Marking (inch/mm)	For coupling size					
1¼" - 3"/32-80	1¼" / DN32	1½" / DN40	2" / DN50	2½"	3"O.D / DN65	3" / DN80
4"/100	4¼" O.D	4" / DN100				
6"/150	5"	5¼" O.D	5½" O.D / DN125	6" / DN150	6¼" O.D	6½" O.D
8"/200	8" / DN200					
10" - 12"/250-300	10" / DN250	12" / DN300				



Test setup at TGM, Austria



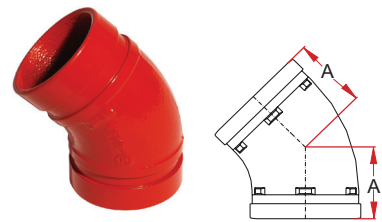
Quikcoup Continuity clip

FITTINGS / Style 64 - 65 - 66 SHORT RADIUS

GROOVED-END FITTINGS

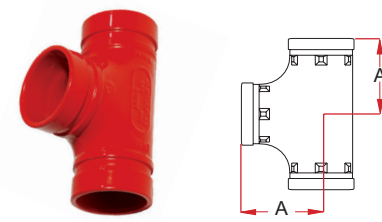
Max. working pressure: 500 psi / 34 bar

STYLE 64
Elbow 45°



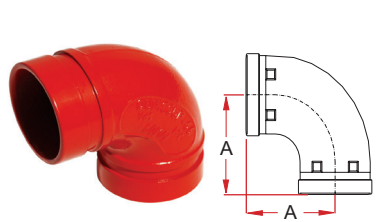
Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1¼" / 32	1.660	1.75	FM/ UL/ VDS
	42.4	44.5	
1½" / 40	1.900	1.75	FM/ UL/ VDS
	48.3	44.5	
2" / 50	2.375	2.01	FM/ UL/ VDS
	60.3	51	
2½"	2.875	2.24	FM/ UL
	73.0	57	
3" O.D / 65	3.000	2.24	FM/ UL/ VDS
	76.1	57	
3" / 80	3.500	2.50	FM/ UL/ VDS
	88.9	63.5	
4¼" O.D	4.250	2.99	VDS
	108.0	76	
4" / 100	4.500	2.99	FM/ UL/ VDS
	114.3	76	
5¼" O.D	5.250	3.25	-
	133.4	82.6	
5½" O.D / 125	5.500	3.25	FM/ UL/ VDS
	139.7	82.6	
5"	5.563	3.25	FM/ UL
	141.3	82.6	
6¼" O.D	6.250	3.54	VDS
	159.0	90	
6½" O.D	6.500	3.50	FM / UL
	165.1	89	
6" / 150	6.625	3.50	FM/ UL/ VDS
	168.3	89	
8" / 200	8.625	4.25	FM/ UL/ VDS
	219.1	108	
10" / 250	10.750	4.72	FM/ UL/ VDS
	273.0	120	
12" / 300	12.750	5.23	FM/ UL/ VDS
	323.9	133	

STYLE 65
Equal Tee



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1" / 25	1.315	2.28	VDS
	33.7	58	
1¼" / 32	1.660	2.76	FM/ VDS
	42.4	70	
1½" / 40	1.900	2.76	FM/ VDS
	48.3	70	
2" / 50	2.375	2.76	FM/ UL/ VDS
	60.3	70	
2½"	2.875	2.99	FM/ UL
	73.0	76	
3" O.D / 65	3.000	2.99	FM/ UL/ VDS
	76.1	76	
3" / 80	3.500	3.98	FM/ UL/ VDS
	88.9	101	
4¼" O.D	4.250	3.98	VDS
	108.0	101	
4" / 100	4.500	3.98	FM/ UL/ VDS
	114.3	101	
5½" O.D / 125	5.500	4.88	FM/ UL/ VDS
	139.7	124	
6¼" O.D	6.250	5.51	VDS
	159.0	140	
6½" O.D	6.500	5.51	FM/ UL/ VDS
	165.1	140	
6" / 150	6.625	5.51	FM/ UL/ VDS
	168.3	140	
8" / 200	8.625	6.85	FM/ UL/ VDS
	219.1	174	

STYLE 66
Elbow 90°



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1" / 25	1.315	2.28	VDS
	33.7	58	
1¼" / 32	1.660	2.76	FM/ VDS
	42.4	70	
1½" / 40	1.900	2.76	FM/ VDS
	48.3	70	
2" / 50	2.375	2.76	FM/ UL/ VDS
	60.3	70	
2½"	2.875	2.99	FM/ UL
	73.0	76	
3" O.D / 65	3.000	2.99	FM/ UL/ VDS
	76.1	76	
3" / 80	3.500	3.98	FM/ UL/ VDS
	88.9	101	
4¼" O.D	4.250	3.98	VDS
	108.0	101	
4" / 100	4.500	3.98	FM/ UL/ VDS
	114.3	101	
5½" O.D / 125	5.500	4.88	FM/ UL/ VDS
	139.7	124	
6¼" O.D	6.250	5.51	VDS
	159.0	140	
6½" O.D	6.500	5.51	FM/ UL/ VDS
	165.1	140	
6" / 150	6.625	5.51	FM/ UL/ VDS
	168.3	140	
8" / 200	8.625	6.85	FM/ UL/ VDS
	219.1	174	

For use with higher then stated maximum working pressure, please contact Modgal Metal.

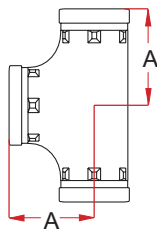
FITTINGS / *Style 05 - 06* LONG RADIUS

GROOVED-END FITTINGS

Max. working pressure: *500 psi* / 34 bar

STYLE 05

Equal Tee



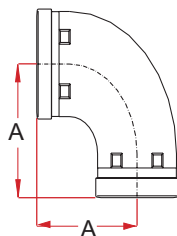
Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
<i>2"</i> / 50	<i>2.375</i>	<i>3.25</i>	FM / UL / VDS
	60.3	82.5	
<i>2½"</i>	<i>2.875</i>	<i>3.74</i>	FM / UL
	73.0	95	
<i>3" O.D</i> / 65	<i>3.000</i>	<i>3.74</i>	FM / UL / VDS
	76.1	95	
<i>3"</i> / 80	<i>3.500</i>	<i>4.25</i>	FM / UL / VDS
	88.9	108	
<i>4¼" O.D</i>	<i>4.250</i>	<i>5.00</i>	FM / UL / VDS
	108.0	127	
<i>4"</i> / 100	<i>4.500</i>	<i>5.00</i>	FM / UL / VDS
	114.3	127	
<i>5¼" O.D</i>	<i>5.250</i>	<i>5.51</i>	VDS
	133.4	140	
<i>5½" O.D</i> / 125	<i>5.500</i>	<i>5.51</i>	FM / UL / VDS
	139.7	140	
<i>5"</i>	<i>5.563</i>	<i>5.51</i>	FM / UL
	141.3	140	
<i>6½" O.D</i>	<i>6.500</i>	<i>6.50</i>	UL
	165.1	165	
<i>6"</i> / 150	<i>6.625</i>	<i>6.50</i>	FM / UL / VDS
	168.3	165	
<i>8"</i> / 200	<i>8.625</i>	<i>7.72</i>	FM / UL / VDS
	219.1	196	
<i>10"</i> / 250	<i>10.750</i>	<i>9.02</i>	FM / UL / VDS
	273.0	229	
<i>12"</i> / 300	<i>12.750</i>	<i>10.00</i>	UL
	323.9	254	
<i>14"</i> / 350 *	<i>14.000</i>	<i>11.10</i>	-
	355.6	282	
<i>16"</i> / 400 *	<i>16.000</i>	<i>12.00</i>	-
	406.4	305	

*maximum working pressure *300 psi* / 20 bar

For use with higher then stated maximum working pressure, please contact Modgal Metal.

STYLE 06

Elbow 90°



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
<i>1¼"</i> / 32	<i>1.660</i>	<i>2.76</i>	FM / UL / VDS
	42.4	70	
<i>1½"</i> / 40	<i>1.900</i>	<i>2.76</i>	FM / UL / VDS
	48.3	70	
<i>2"</i> / 50	<i>2.375</i>	<i>3.25</i>	FM / UL / VDS
	60.3	82.5	
<i>2½"</i>	<i>2.875</i>	<i>3.74</i>	UL
	73.0	95	
<i>3" O.D</i> / 65	<i>3.000</i>	<i>3.74</i>	FM / UL / VDS
	76.1	95	
<i>3"</i> / 80	<i>3.500</i>	<i>4.25</i>	FM / UL / VDS
	88.9	108	
<i>4¼" O.D</i>	<i>4.250</i>	<i>5.00</i>	FM / UL / VDS
	108.0	127	
<i>4"</i> / 100	<i>4.500</i>	<i>5.00</i>	FM / UL / VDS
	114.3	127	
<i>5¼" O.D</i>	<i>5.250</i>	<i>4.80</i>	VDS
	133.4	122	
<i>5½" O.D</i> / 125	<i>5.500</i>	<i>5.51</i>	UL / VDS
	139.7	140	
<i>5"</i>	<i>5.563</i>	<i>5.51</i>	FM / UL
	141.3	140	
<i>6¼" O.D</i>	<i>6.250</i>	<i>6.50</i>	FM / UL / VDS
	159.0	165	
<i>6½" O.D</i>	<i>6.500</i>	<i>6.50</i>	UL
	165.1	165	
<i>6"</i> / 150	<i>6.625</i>	<i>6.50</i>	FM / UL / VDS
	168.3	165	
<i>8"</i> / 200	<i>8.625</i>	<i>7.72</i>	FM / UL / VDS
	219.1	196	
<i>10"</i> / 250	<i>10.750</i>	<i>9.02</i>	FM / UL / VDS
	273.0	229	
<i>12"</i> / 300	<i>12.750</i>	<i>10.00</i>	UL
	323.9	254	
<i>14"</i> / 350 *	<i>14.000</i>	<i>11.10</i>	-
	355.6	282	
<i>16"</i> / 400 *	<i>16.000</i>	<i>12.00</i>	-
	406.4	305	

*maximum working pressure *300 psi* / 20 bar

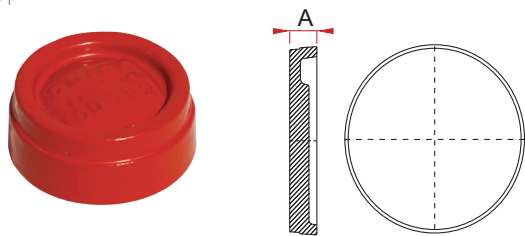
FITTINGS / *Style 02 - 02D*

GROOVED-END FITTINGS

Max. working pressure: 500 psi / 34 bar

STYLE 02

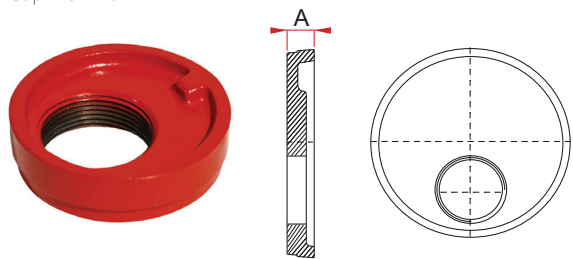
End-Cap



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1¼" / 32	1.660	0.95	FM / UL / VDS
	42.4	24	
1½" / 40	1.900	0.98	FM / UL / VDS
	48.3	25	
2" / 50	2.375	0.95	FM / UL / VDS
	60.3	24	
2½"	2.875	0.93	FM / UL
	73.0	23.5	
3" O.D. / 65	3.000	0.98	FM / UL / VDS
	76.1	25	
3" / 80	3.500	0.98	FM / UL / VDS
	88.9	25	
4¼" O.D.	4.250	1.06	FM / VDS
	108.0	27	
4" / 100	4.500	1.10	FM / UL / VDS
	114.3	28	
5¼" O.D.	5.250	1.02	FM / VDS
	133.4	26	
5½" O.D. / 125	5.500	1.06	FM / UL / VDS
	139.7	27	
5"	5.563	1.00	FM / UL
	141.3	25.5	
6¼" O.D.	6.250	1.06	FM / UL / VDS
	159.0	27	
6½" O.D.	6.500	1.08	FM / VDS
	165.1	27.5	
6" / 150	6.625	1.02	FM / UL / VDS
	168.3	26	
8" / 200	8.625	1.22	FM / UL / VDS
	219.1	31	
10" / 250	10.750	1.34	FM / UL / VDS
	273.0	34	
12" / 300	12.750	1.34	UL
	323.9	34	
14" / 350	14.000	1.49	-
	355.6	38	
16" / 400	16.000	1.49	-
	406.4	38	

STYLE 02D

End-Cap with Drain



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Outlet (Inch)	Dimension A (Inch / mm)	Approvals
2" / 50	2.375	¾, 1, 1½	0.98	VDS
	60.3		25	
2½"	2.875	½, ¾, 1, 1¼, 1½, 2	0.98	FM
	73.0		25	
3" O.D. / 65	3.000	¾, 1, 1½, 2	0.98	FM / VDS
	76.1		25	
3" / 80	3.500	1½, 2	0.98	FM / UL / VDS
	88.9		25	
4¼" O.D.	4.250	1½, 2	1.02	FM / UL / VDS
	108.0		26	
4" / 100	4.500	1½, 2	1.06	FM / UL / VDS
	114.3		27	
5¼" O.D.	5.250	1½, 2	1.02	FM / VDS
	133.4		26	
5½" O.D. / 125	5.500	1½, 2	1.02	FM / VDS
	139.7		26	
5"	5.563	1½, 2	1.02	FM
	141.3		26	
6¼" O.D.	6.250	1½, 2	1.02	FM / UL / VDS
	159.0		26	
6½" O.D.	6.500	1½, 2	1.02	FM / UL
	165.1		26	
6" / 150	6.625	1½, 2	1.02	FM / UL / VDS
	168.3		26	
8" / 200	8.625	1½, 2	1.18	FM / UL / VDS
	219.1		30	

For use with higher than stated maximum working pressure, please contact Modgal Metal.

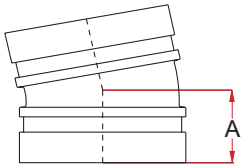
FITTINGS / Style 41 - 42

GROOVED-END FITTINGS

Max. working pressure: 500 psi / 34 bar

STYLE 41

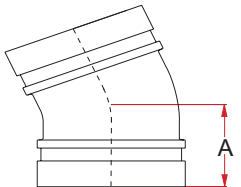
Elbow 11¼°



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1¼" / 32	1.660	1.38	FM
	42.4	35	
1½" / 40	1.900	1.38	FM
	48.3	35	
2" / 50	2.375	1.38	FM
	60.3	35	
2½"	2.875	1.50	FM / UL
	73.0	38	
3" O.D. / 65	3.000	1.50	FM
	76.1	38	
3" / 80	3.500	1.50	FM
	88.9	38	
4" / 100	4.500	1.73	FM
	114.3	44	
5½" O.D. / 125	5.500	2.00	FM
	139.7	51	
6½" O.D.	6.500	2.00	FM
	165.1	51	
6" / 150	6.625	2.00	FM
	168.3	51	
8" / 200	8.625	2.00	FM
	219.1	51	

STYLE 42

Elbow 22½°



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1¼" / 32	1.660	1.77	FM
	42.4	45	
1½" / 40	1.900	1.77	FM
	48.3	45	
2" / 50	2.375	1.89	FM
	60.3	48	
2½"	2.875	2.00	FM
	73.0	51	
3" O.D. / 65	3.000	2.00	FM
	76.1	51	
3" / 80	3.500	2.24	FM
	88.9	57	
4" / 100	4.500	2.87	FM
	114.3	73	
5½" O.D. / 125	5.500	3.11	FM
	139.7	79	
6½" O.D.	6.500	3.11	FM
	165.1	79	
6" / 150	6.625	3.11	FM
	168.3	79	
8" / 200	8.625	3.86	FM
	219.1	98	



MOLTEN IRON POURING

QUIKFLANGE™ / Style 90

STYLE 90 QUIKFLANGE™

QUIKFLANGE™ two-piece hinged casing groove-to-flange adaptor is designed for direct connection of ANSI class 125,150 and ISO 7005-1 class PN10/16 standards flanged components into a grooved pipe system.

The hole-spacing is standard and enable standard flanged items to be easily and rapidly assembled to the grooved pipe. The hinged halves are drawn together into the pipe end-groove with a built-in arrangement especially required when the pipe end is out-of-round.

The unique design of the gasket inserted into the QUIKFLANGE™ ensures a closed seal between the pipe and the mating flange face.

QUIKFLANGE™ provides a rigid joint when all bolts have been tightened.

For special applications where the mating flange faces are not hard and smooth, use metal flange "washer plates". Please contact the Modgal Metal. for details.

Maximum working pressure:
According to standard.

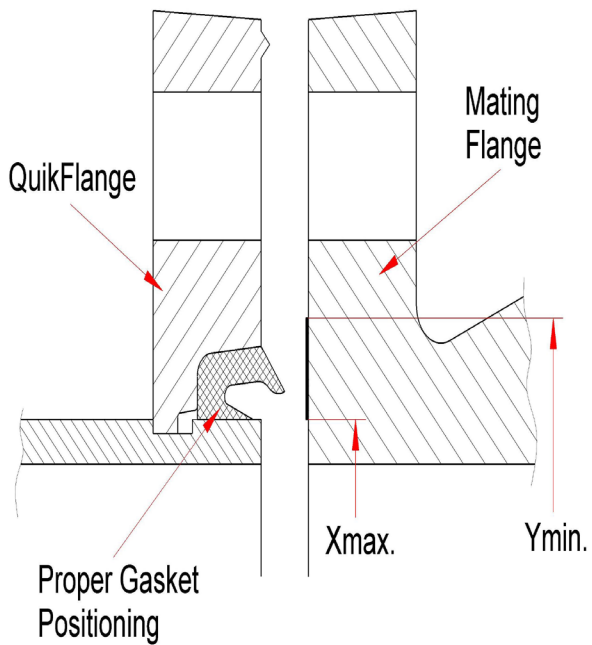
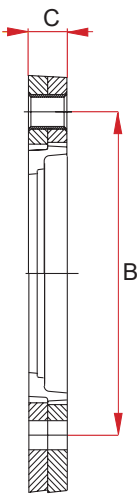
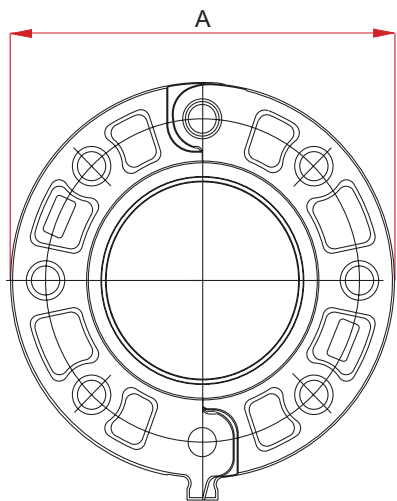
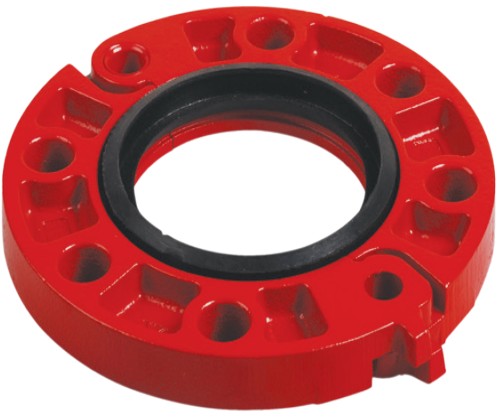


Table on next page

QUIKFLANGE™ / Style 90

Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Flange Dimensions			Sealing surface		Standard			Bolts (Inch / mm)		Approvals
		A	B	C	X (max.)	Y (min.)	ISO 7005-2	BSTD	ANSI	Qty.	Size	
2"/50	2.375	6.00	4.74	0.91	2.36	3.39	-	-	ASA 150	4	5/8	FM / UL
	60.3	153	120.5	23	60	86						
	2.375	6.50	4.92	0.79	2.36	3.39	PN10 / PN16	-	-	4	M16	FM / UL / VDS
	60.3	165	125	20	60	86						
2½"	2.875	7.00	5.51	0.75	2.88	4.00	-	-	ASA 150	4	5/8	UL
	73.0	178	140	19	73	102						
3"O.D / 65	3.000	7.28	5.70	0.87	3.00	4.00	PN10 / PN16	-	-	4	M16	FM / UL / VDS
	76.1	185	145	22	76	102						
3"/80	3.500	7.40	5.75	0.79	3.50	4.53	-	10 bar	-	4	5/8	FM / UL
	88.9	188	146	20	89	115						
	3.500	7.52	6.00	0.95	3.50	4.53	-	-	ASA 150	4	5/8	FM / UL
	88.9	191	152	24	89	115						
	3.500	7.87	6.30	0.79	3.50	4.53	PN10 / PN16	-	-	8	M16	FM / UL / VDS
	88.9	200	160	20	89	115						
4"/100	4.500	9.02	7.50	0.95	4.50	5.55	-	-	ASA 150	8	5/8	FM / UL
	114.3	229	190.5	24	114	141						
	4.500	8.66	7.09	0.87	4.50	5.55	PN10 / PN16	-	-	8	M16	FM / UL / VDS
	114.3	220	180	22	114	141						
5½"O.D/125	5.500	9.92	8.27	0.95	5.50	6.70	PN10 / PN16	-	-	8	M16	FM / VDS
	139.7	252	210	24	140	170						
5"	5.563	11.00	8.50	0.87	5.55	6.70	-	-	ASA 150	8	¾	-
	141.3	254	216	22	141	170						
6½"O.D	6.500	11.14	9.45	1.02	6.50	7.80	PN10 / PN16	-	-	8	M20	FM / UL / VDS
	165.1	283	240	26	165	198						
6"/150	6.625	11.14	9.45	1.02	6.60	7.80	PN10 / PN16	-	-	8	M20	FM / UL / VDS
	168.3	283	240	26	168	198						
	6.625	11.14	9.45	1.02	6.65	7.80	-	-	ASA 150	8	¾	FM / UL
	168.3	283	240	26	169	198						
8"/200	8.625	13.46	11.73	1.18	8.62	9.92	-	-	ASA 150	8	¾	FM / UL
	219.1	342	298	30	219	252						
	8.625	13.50	11.61	1.10	8.62	9.92	PN16	-	-	12	M20	FM / UL
	219.1	343	295	28	219	252						
10"/250	10.750	15.97	14.25	1.18	10.75	12.32	-	-	ASA 150	12	7/8	UL
	273.0	405.6	362	30	273	313						

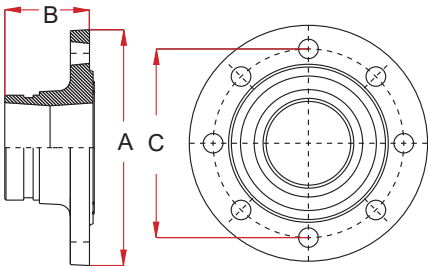
FITTINGS / Style 91

STYLE 91

Grooved Flange Adaptor

GROOVED-END FITTINGS

Max. working pressure: 500 psi / 34 bar



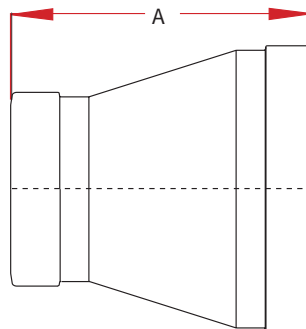
Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimensions			Standards		Bolts		Approvals
		A	B	C	ISO 7005-2	ANSI	No.	Size	
2"/50	2.375	6.50	2.56	4.92	PN10 / PN16	-	4	M16	FM / UL / VDS
	60.3	165	65	125					
2½"	2.875	7.28	2.56	5.50	-	ASA 150	4	5/8	UL
	73.0	185	65	139.7					
3"O.D / 65	3.000	7.28	2.56	5.61	PN10 / PN16	-	4	M16	FM / UL / VDS
	76.1	185	65	142.5					
3"/80	3.500	7.87	2.56	6.30	PN10 / PN16	-	8	M16	FM / UL / VDS
	88.9	200	65	160					
	3.500	7.56	2.56	6.00	-	ASA 150	4	5/8	FM / UL
	88.9	192	65	152.5					
4"/100	4.500	9.02	2.76	7.50	-	ASA 150	8	5/8	FM / UL
	114.3	229	70	190.5					
	4.500	8.66	2.76	7.09	PN10 / PN16	-	8	M16	FM / UL / VDS
	114.3	220	70	180					
5½"O.D/125	5.500	9.84	2.76	8.27	PN10 / PN16	-	8	M16	FM / UL / VDS
	139.7	250	70	210					
6½"O.D	6.500	11.10	2.76	9.45	PN10 / PN16	-	8	M20	FM / UL
	165.1	282	70	240					
6"/150	6.625	11.18	2.76	9.45	-	ASA 150	8	¾	FM / UL
	168.3	284	70	240					
	6.625	11.18	2.76	9.45	PN10 / PN16	-	8	M20	FM / UL / VDS
	168.3	284	70	240					
8"/200	8.625	13.50	2.95	11.61	PN16	-	12	M20	FM / UL / VDS
	219.1	343	75	295					
	8.625	13.50	2.95	11.61	PN10	-	8	M20	-
	219.1	343	75	295					
	8.625	13.50	2.95	11.77	-	ASA 150	8	¾	FM / UL
	219.1	343	75	299					
10"/250	10.750	15.94	3.35	13.97	PN16	-	12	M24	FM / UL / VDS
	273.0	405	85	355					
	10.750	15.55	3.35	13.78	PN10	-	12	M20	FM / UL / VDS
	273.0	395	85	350					
12"/300	12.750	18.11	3.54	16.14	PN16	-	12	M24	FM / UL
	323.9	460	90	410					
	12.750	18.11	3.54	15.75	PN10	-	12	M20	-
	323.9	460	90	400					

For use with higher than stated maximum working pressure, please contact Modgal Metal.

REDUCING FITTINGS / Style 15

STYLE 15 CONCENTRIC REDUCER

Max. working pressure: 500 psi / 34 bar



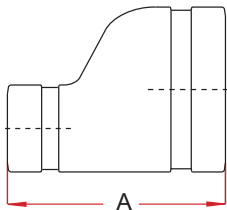
Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1½" x 1¼" / 40 x 32	1.900 x 1.660 48.3 x 42.4	2.52 64	FM / UL / VDS
2" x 1¼" / 50 x 32	2.375 x 1.660 60.3 x 42.4	2.52 64	UL / VDS
2" x 1½" / 50 x 40	2.375 x 1.900 60.3 x 48.3	2.52 64	FM / UL / VDS
2½" x 1½"	2.875 x 1.900 73.0 x 48.3	2.52 64	FM / UL
2½" x 2"	2.875 x 2.375 73.0 x 60.3	2.52 64	FM / UL
3" O.D x 1½" / 65 x 40	3.000 x 1.900 76.1 x 48.3	2.52 64	FM / UL / VDS
3" O.D x 2" / 65 x 50	3.000 x 2.375 76.1 x 60.3	2.52 64	FM / UL / VDS
3" x 1¼" / 80 x 32	3.500 x 1.660 88.9 x 42.4	2.56 65	FM / UL / VDS
3" x 1½" / 80 x 40	3.500 x 1.900 88.9 x 48.3	2.60 66	FM / UL / VDS
3" x 2" / 80 x 50	3.500 x 2.375 88.9 x 60.3	2.60 66	FM / UL / VDS
3" x 2½"	3.500 x 2.875 88.9 x 73.0	2.60 66	FM / UL
3" x 3" O.D / 80 x 65	3.500 x 3.000 88.9 x 76.1	2.60 66	FM / UL / VDS
4" x 2" / 100 x 50	4.500 x 2.375 114.3 x 60.3	3.00 76	FM / UL / VDS
4" x 2½"	4.500 x 2.875 114.3 x 73.0	3.00 76	FM / UL
4" x 3" O.D / 100 x 65	4.500 x 3.000 114.3 x 76.1	3.00 76	FM / UL / VDS
4" x 3" / 100 x 80	4.500 x 3.500 114.3 x 88.9	3.00 76	FM / UL / VDS
5½" O.D x 3" O.D / 125 x 65	5.500 x 3.000 139.7 x 76.1	3.62 92	FM / UL / VDS
5½" O.D x 3" / 125 x 80	5.500 x 3.500 139.7 x 88.9	3.62 92	FM / UL / VDS
5½" O.D x 4" / 125 x 100	5.500 x 4.500 139.7 x 114.3	3.62 92	FM / UL / VDS

Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
5" x 4"	5.563 x 4.500 141.3 x 114.3	3.50 89	FM / UL
6½" O.D x 2"	6.500 x 2.375 165.1 x 60.3	4.06 103	FM / UL
6½" O.D x 3"	6.500 x 3.500 165.1 x 88.9	4.06 103	FM / UL
6½" O.D x 4"	6.500 x 4.500 165.1 x 114.3	4.06 103	FM / UL
6½" O.D x 5"	6.500 x 5.500 165.1 x 139.7	4.06 103	FM
6" x 2" / 150 x 50	6.625 x 2.375 168.3 x 60.3	4.06 103	FM / UL / VDS
6" x 2½"	6.625 x 2.875 168.3 x 73.0	4.02 102	FM / UL
6" x 3" O.D / 150 x 65	6.625 x 3.000 168.3 x 76.1	4.06 103	FM / VDS
6" x 3" / 150 x 80	6.625 x 3.500 168.3 x 88.9	4.06 103	FM / UL / VDS
6" x 4" / 150 x 100	6.625 x 4.500 168.3 x 114.3	4.06 103	FM / UL / VDS
6" x 5½" O.D / 150 x 125	6.625 x 5.500 168.3 x 139.7	4.06 103	FM / VDS
6" x 5"	6.625 x 4.500 168.3 x 141.3	4.06 103	FM / UL
8" x 3" / 200 x 80	8.625 x 3.500 219.1 x 88.9	5.04 128	FM / UL / VDS
8" x 4" / 200 x 100	8.625 x 4.500 219.1 x 114.3	5.04 128	FM / UL / VDS
8" x 5" / 200 x 125	8.625 x 5.500 219.1 x 139.7	5.04 128	FM / VDS
8" x 6" / 200 x 150	8.625 x 6.625 219.1 x 168.3	5.04 128	FM / UL / VDS
10" x 6" / 250 x 150	10.750 x 6.625 273.0 x 168.3	6.06 154	FM / VDS
10" x 8" / 250 x 200	10.750 x 8.625 273.0 x 219.1	6.06 154	FM / VDS
12" x 10" / 300 x 250	12.750 x 10.750 323.9 x 273.0	7.09 180	FM / VDS

REDUCING FITTINGS / Style 16-06D-55

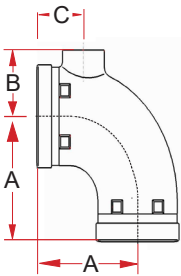
STYLE 16 ECCENTRIC REDUCER

Max. working pressure: 500 psi / 34 bar



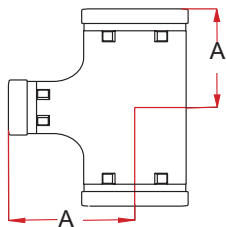
Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
3" x 2" / 80 x 50	3.500 x 2.375	3.54	-
	88.9 x 60.3	90	
4" x 2" / 100 x 50	4.500 x 2.375	4.02	-
	114.3 x 60.3	102	
4" x 3" / 100 x 80	4.500 x 3.500	4.02	-
	114.3 x 88.9	102	
5½" O.D x 4" / 125 x 100	5.500 x 4.500	5.04	-
	139.7 x 114.3	128	
6" x 3" / 150 x 80	6.625 x 3.500	5.63	-
	168.3 x 88.9	143	
6" x 4" / 150 x 100	6.625 x 4.500	5.55	-
	168.3 x 114.3	141	

STYLE 06D ELBOW WITH DRAIN 1"



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimensions (Inch / mm)			Approvals
		A	B	C	
2½"	2.875	3.74	1.93	2.01	FM
	73.0	95	49	51	
3" O.D / 65	3.000	3.74	1.95	2.05	-
	76.1	95	49.5	52	
3" / 80	3.500	4.29	2.26	2.01	FM / UL
	88.9	109	57.5	51	
4" / 100	4.500	5.10	2.76	2.09	FM / UL
	114.3	129.5	70	53	
6" / 150	6.625	6.54	3.70	2.09	FM / UL
	168.3	166	94	53	

STYLE 55 REDUCING TEE



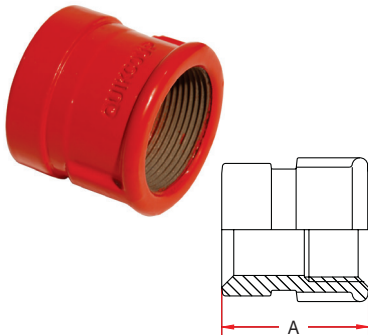
Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
3" O.D x 2" / 65 x 50	3.000 x 2.375	3.00	UL
	76.1 x 60.3	76	
3" x 2" / 80 x 50	3.500 x 2.375	3.35	FM / UL
	88.9 x 60.3	85	
3" x 3" O.D / 80 x 65	3.500 x 3.000	3.35	UL
	88.9 x 76.1	85	
4" x 2" / 100 x 50	4.500 x 2.375	3.78	FM / UL
	114.3 x 60.3	96	
4" x 3" O.D / 100 x 65	4.500 x 3.000	3.98	FM / UL
	114.3 x 76.1	101	
4" x 3" / 100 x 80	4.500 x 3.500	3.98	FM / UL
	114.3 x 88.9	101	
5½" O.D x 3" O.D / 125 x 65	5.500 x 3.000	4.88	-
	139.7 x 76.1	124	
5½" O.D x 3" / 125 x 80	5.500 x 3.500	3.98	FM / UL
	139.7 x 88.9	101	
5½" O.D x 4" / 125 x 100	5.500 x 4.500	4.84	FM / UL
	139.7 x 114.3	123	
6" x 2" / 150 x 50	6.625 x 2.375	6.61	FM / UL
	168.3 x 60.3	168	
6" x 3" O.D / 150 x 65	6.625 x 3.000	5.47	-
	168.3 x 76.1	139	
6" x 3" / 150 x 80	6.625 x 3.500	5.47	FM / UL
	168.3 x 88.9	139	
6" x 4" / 150 x 100	6.625 x 4.500	5.47	FM / UL
	168.3 x 114.3	139	
8" x 3" / 200 x 80	8.625 x 3.500	6.89	FM / UL
	219.1 x 88.9	175	
8" x 4" / 200 x 100	8.625 x 4.500	6.89	FM / UL
	219.1 x 114.3	175	
8" x 5½" O.D / 200 x 125	8.625 x 5.500	6.89	FM
	219.1 x 139.7	175	
8" x 6" / 200 x 150	8.625 x 6.625	6.89	FM / UL
	219.1 x 168.3	175	
10" x 6" / 250 x 150	10.750 x 6.625	9.02	FM / VDS
	273.0 x 168.3	229	
10" x 8" / 250 x 200	10.750 x 8.625	9.02	FM / VDS
	273.0 x 219.1	229	
12" x 8" / 300 x 200	12.750 x 8.625	10.00	FM / VDS
	323.9 x 219.1	254	
12" x 10" / 300 x 250	12.750 x 10.750	10.00	FM / VDS
	323.9 x 273.0	254	

GROOVED END ADAPTORS / Style 24 - 25 - 28

GROOVED-END ADAPTORS

Max. working pressure: 362 psi / 25 bar

STYLE 24
Reducing Adaptor

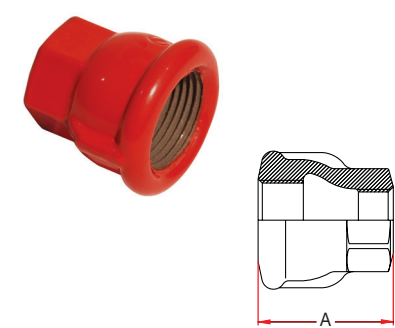


Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1¼"G x 1"T 32G x 25T	1.660 x 1.315	1.85	-
	42.4 x 33.7	47	
1½"G x 1"T 40G x 25T	1.900 x 1.315	1.85	FM / UL
	48.3 x 33.7	47	
2"G x 1½"T 50G x 40T	2.375 x 1.900	2.17	UL
	60.3 x 48.3	55	

T = Threaded
G = Grooved

For use with higher then stated maximum working pressure, please contact Modgal Metal.

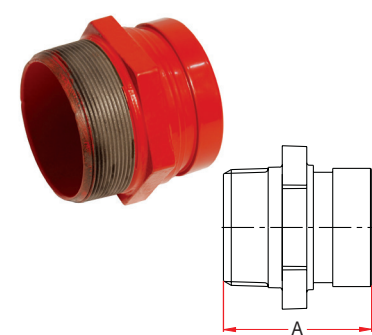
STYLE 25
Sprinkler Adaptor



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1"x ½" 25 x 15	1.315 x 0.839	1.77	UL
	33.7 x 21.3	45	
1"x¾" 25 x 20T	1.315 x 1.050	1.77	UL
	33.7 x 26.9	45	

T = Threaded
G = Grooved

STYLE 28 (27)
Nipple Adaptor



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimension A (Inch / mm)	Approvals
1¼"G x 1¼"T 32G x 32T	1.660 x 1.660	2.44	-
	42.4 x 42.4	62	
1½"G x 1½"T 40G x 40T	1.900 x 1.900	2.36	FM / UL
	48.3 x 48.3	60	
2"G x 2"T 50G x 50T	2.375 x 2.375	2.64	UL
	60.3 x 60.3	67	
2½"G x 2½"T	2.875 x 2.875	2.95	-
	73.0 x 73.0	75	
3"O.D G x 3"O.D T 65G x 65T	3.000 x 3.000	2.97	-
	76.1 x 76.1	75.5	
3"G x 3"T 80G x 80T	3.500 x 3.500	3.35	-
	88.9 x 88.9	85	
4"G x 4"T 100G x 100T	4.500 x 4.500	3.15	-
	114.3 x 114.3	80	

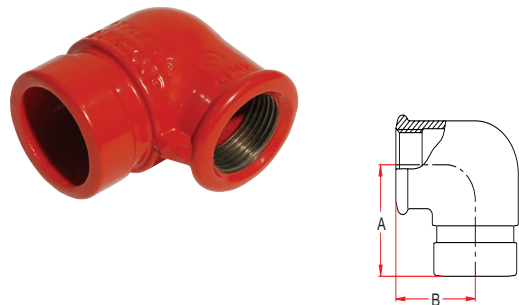
T = Threaded
G = Grooved

GROOVED END ADAPTORS / Style 26 - 29

GROOVED-END ADAPTORS

Max. working pressure: 362 psi / 25 bar

STYLE 26
Reducing Elbow



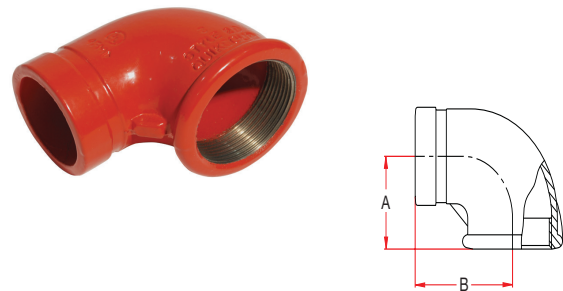
Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimensions (Inch / mm)		Approvals
		A	B	
1¼"G x ½"T 32G x15T	1.660 x 0.839	1.73	1.50	-
	42.4 x 21.3	44	38	
1¼"G x ¾"T 32G x20T	1.660 x	1.83	1.50	-
	42.4 x 26.9	46.5	38	
1¼"G x 1"T 32G x25T	1.660 x 1.315	2.03	1.50	-
	42.4 x 33.7	51.6	38	
1½"G x ½"T 40G x15T	1.900 x 0.839	1.81	1.57	UL
	48.3 x 21.3	46	40	
1½"G x ¾"T 40G x20T	1.900 x 1.050	1.89	1.65	UL
	48.3 x 26.9	48	42	
1½"G x 1"T 40G x25T	1.900 x 1.315	2.09	1.69	UL
	48.3 x 33.7	53	43	
2"G x ½"T 50G x15T	2.375 x 0.839	1.69	1.77	UL
	60.3 x 21.3	43	45	
2"G x ¾"T 50G x20T	2.375 x 1.050	1.77	1.81	UL
	60.3 x 26.9	45	46	
2"G x 1"T 50G x25T	2.375 x 1.315	1.91	1.81	FM / UL
	60.3 x 33.7	48.5	46	

T = Threaded

G = Grooved

For use with higher then stated maximum working pressure, please contact Modgal Metal.

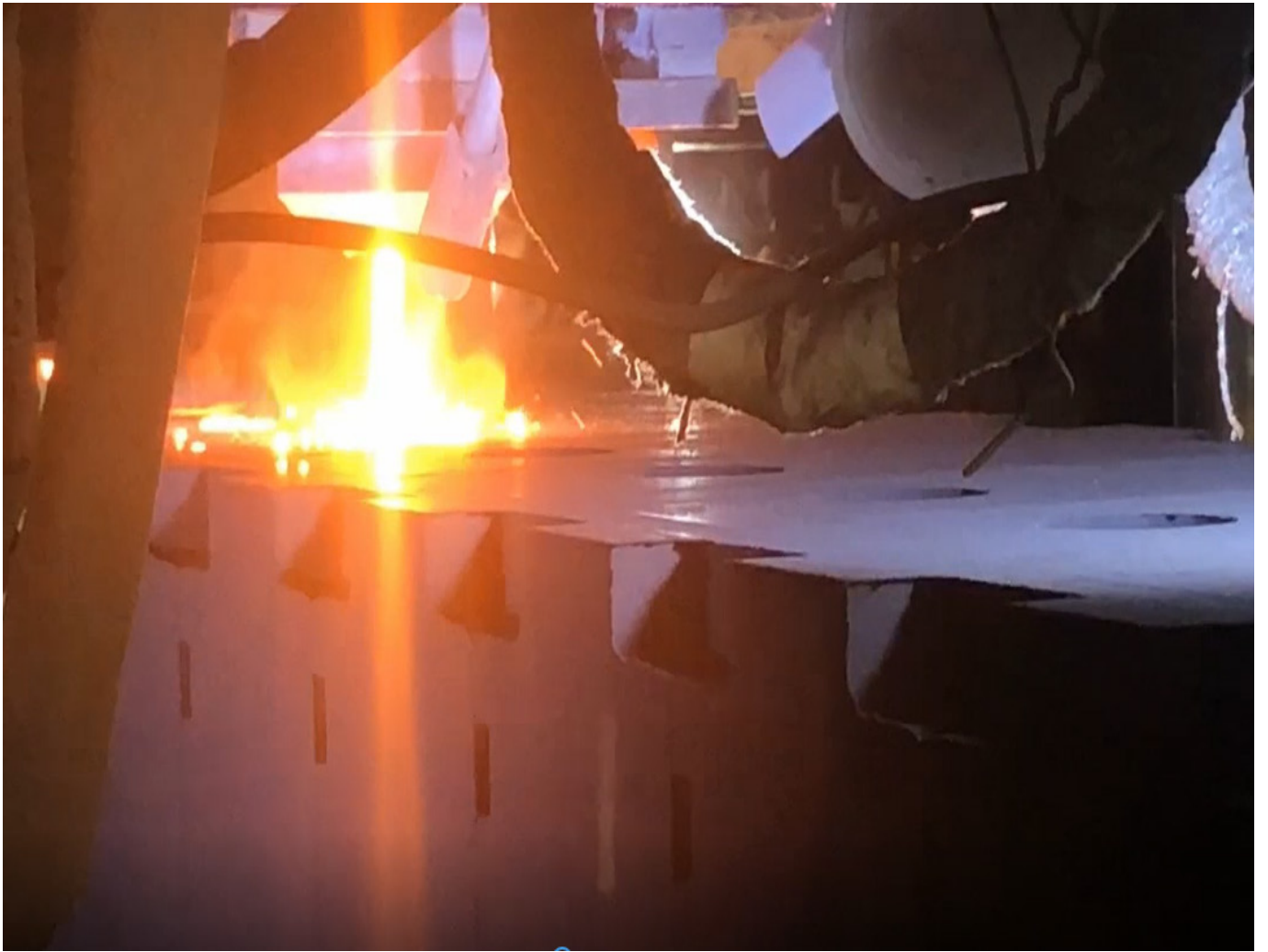
STYLE 29
Elbow



Nominal Size (Inch / DN)	Pipe Outside Diameter (Inch / mm)	Dimensions (Inch / mm)		Approvals
		A	B	
2"G x 2"T 50G x 50T	2.375 x 2.375	2.95	2.32	-
	60.3 x 60.3	75	59	

T = Threaded

G = Grooved



SAND CASTING

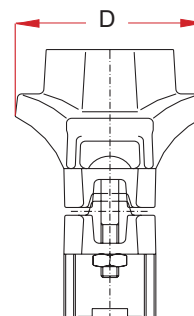
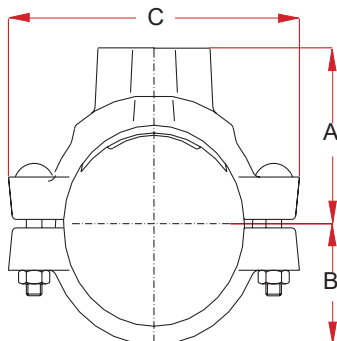
BRANCH OUTLETS / Style 08T

QUIK-T™ BRANCH OUTLETS

Max. working pressure: 300 psi / 20 bar

STYLE 08T

Threaded



Nominal Size (Inch / DN)		Pipe Outside Diameter (Inch / mm)	Outlet Outside Diameter (Inch / mm)	Quik-T™ Dimensions (Inch / mm)				Hole Diameter (Inch / mm)	Bolts (Inch / mm)			Approvals
Run	Outlet			A	B	C	D	Tolerance +1/16"/+2.0mm	Qty.	Size	Length	
2" / 50	1/2"	2.375	0.839	2.28	1.63	5.31	3.00	1.500	2	3/8	2 1/4	FM / UL / VDS
	15	60.3	21.3	58	41.5	135	76	38.1		M10	57	
	3/4"	2.375	1.050	2.28	1.63	5.31	3.00	1.500	2	3/8	2 1/4	FM / UL / VDS
	20	60.3	26.9	58	41.5	135	76	38.1		M10	57	
	1"	2.375	1.315	2.58	1.63	5.31	3.00	1.500	2	3/8	2 1/4	FM / UL / VDS
	25	60.3	33.7	65.5	41.5	135	76	38.1		M10	57	
	1 1/4"	2.375	1.660	2.74	1.63	5.31	3.23	1.750	2	3/8	2 1/4	FM / UL / VDS
	32	60.3	42.4	69.5	41.5	135	82	44.5		M10	57	
2 1/2"	1 1/2"	2.375	1.900	2.74	1.63	5.31	3.23	1.750	2	3/8	2 1/4	FM / UL / VDS
	40	60.3	48.3	69.5	41.5	135	82	44.5		M10	57	
	1/2"	2.875	0.839	2.64	1.89	5.91	3.62	1.500	2	1/2	3	FM / UL
	15	73.0	21.3	67	48	150	92	38.1		M12	76	
	3/4"	2.875	1.050	2.72	1.89	5.91	3.62	1.500	2	1/2	3	FM / UL
	20	73.0	26.9	69	48	150	92	38.1		M12	76	
	1"	2.875	1.315	2.83	1.89	5.91	3.62	1.500	2	1/2	3	FM / UL
	25	73.0	33.7	72	48	150	92	38.1		M12	76	
3" O.D. / 65	1 1/4"	2.875	1.660	3.00	1.89	5.91	3.62	2.000	2	1/2	3	FM / UL
	32	73.0	42.4	76	48	150	92	50.8		M12	76	
	1 1/2"	2.875	1.900	3.00	1.89	5.91	3.62	2.000	2	1/2	3	FM / UL
	40	73.0	48.3	76	48	150	92	50.8		M12	76	
	1/2"	3.000	0.839	2.64	1.89	5.91	3.62	1.500	2	1/2	3	FM / UL / VDS
	15	76.1	21.3	67	48	150	92	38.1		M12	76	
	3/4"	3.000	1.050	2.72	1.89	5.91	3.62	1.500	2	1/2	3	FM / UL / VDS
	20	76.1	26.9	69	48	150	92	38.1		M12	76	
3" / 80	1"	3.000	1.315	2.83	1.89	5.91	3.62	1.500	2	1/2	3	FM / UL / VDS
	25	76.1	33.7	72	48	150	92	38.1		M12	76	
	1 1/4"	3.000	1.660	3.00	1.89	5.91	3.62	2.000	2	1/2	3	FM / UL / VDS
	32	76.1	42.4	76	48	150	92	50.8		M12	76	
	1 1/2"	3.000	1.900	3.00	1.89	5.91	3.62	2.000	2	1/2	3	FM / UL / VDS
	40	76.1	48.3	76	48	150	92	50.8		M12	76	
	1/2"	3.500	0.839	2.80	2.22	6.30	3.15	1.500	2	1/2	3	FM / UL / VDS
	15	88.9	21.3	71	56.5	160	80	38.1		M12	76	
4 1/4" O.D.	3/4"	3.500	1.050	3.00	2.22	6.30	3.15	1.500	2	1/2	3	FM / UL / VDS
	20	88.9	26.9	76	56.5	160	80	38.1		M12	76	
	1"	3.500	1.315	3.05	2.22	6.30	3.15	1.500	2	1/2	3	FM / UL / VDS
	25	88.9	33.7	77.5	56.5	160	80	38.1		M12	76	
	1 1/4"	3.500	1.660	3.44	2.22	6.30	3.74	2.000	2	1/2	3	FM / UL / VDS
	32	88.9	42.4	87.5	56.5	160	95	50.8		M12	76	
	1 1/2"	3.500	1.900	3.44	2.22	6.30	3.70	2.000	2	1/2	3	FM / UL / VDS
	40	88.9	48.3	87.5	56.5	160	94	50.8		M12	76	
4 1/4" O.D.	2"	3.500	2.375	3.54	2.22	6.30	4.13	2.500	2	1/2	3	FM / UL / VDS
	50	88.9	60.3	90	56.5	160	105	63.5		M12	76	
4 1/4" O.D.	1 1/2"	4.250	1.900	3.98	2.56	7.13	3.78	2.000	2	1/2	3	VDS
	40	108.0	48.3	101	65	181	96	50.8		M12	76	

Table continued on next page

BRANCH OUTLETS / Style 08T

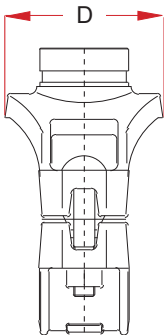
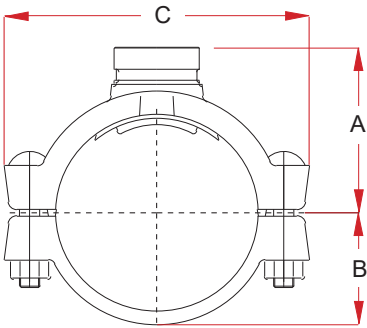
Nominal Size (Inch / DN)		Pipe Outside Diameter (Inch / mm)	Outlet Outside Diameter (Inch / mm)	Quik-T™ Dimensions (Inch / mm)				Hole Diameter (Inch / mm) Tolerance +1/13"/+2.0mm	Bolts (Inch / mm)			Approvals
Run	Outlet			A	B	C	D		Qty.	Size	Length	
4" / 100	1/2"	4.500	0.839	3.43	2.72	7.36	3.78	1.500	2	1/2	3	FM / VDS
	15	114.3	21.3	87	69	187	96	38.1		M12	76	
	3/4"	4.500	1.050	3.50	2.72	7.36	3.78	1.500	2	1/2	3	FM / VDS
	20	114.3	26.9	89	69	187	96	38.1		M12	76	
	1"	4.500	1.315	3.62	2.72	7.36	3.78	1.500	2	1/2	3	FM / VDS
	25	114.3	33.7	92	69	187	96	38.1		M12	76	
	1 1/4"	4.500	1.660	4.09	2.72	7.36	3.78	2.000	2	1/2	3	FM / UL / VDS
	32	114.3	42.4	104	69	187	96	50.8		M12	76	
	1 1/2"	4.500	1.900	4.09	2.72	7.36	3.78	2.000	2	1/2	3	FM / UL / VDS
	40	114.3	48.3	104	69	187	96	50.8		M12	76	
	2"	4.500	2.375	4.09	2.72	7.36	4.21	2.500	2	1/2	3	FM / UL / VDS
	50	114.3	60.3	104	69	187	107	63.5		M12	76	
	2 1/2"	4.500	2.875	4.09	2.72	7.36	4.17	2.750	2	1/2	3	FM
		114.3	73.0	104	69	187	106	69.8		M12	76	
	3"	4.500	3.500	4.41	2.72	7.36	5.12	3.500	2	1/2	3	FM / UL / VDS
	80	114.3	88.9	112	69	187	130	88.9		M12	76	
5 1/4" O.D	1 1/2"	5.250	1.900	4.51	3.05	8.19	3.78	2.000	2	5/8	3 1/2	VDS
	40	133.4	48.3	114.5	77.5	208	96	50.8		M16	89	
5 1/2" O.D/125	1 1/4"	5.500	1.660	4.67	3.21	8.50	3.94	2.000	2	5/8	3 1/2	FM / VDS
	32	139.7	42.4	118.5	81.5	216	100	50.8		M16	89	
	1 1/2"	5.500	1.900	4.67	3.21	8.50	3.94	2.000	2	5/8	3 1/2	FM / VDS
	40	139.7	48.3	118.5	81.5	216	100	50.8		M16	89	
	2"	5.500	2.375	4.74	3.21	8.50	4.17	2.500	2	5/8	3 1/2	FM / VDS
	50	139.7	60.3	120.5	81.5	216	106	63.5		M16	89	
5"	1 1/4"	5.563	1.660	4.67	3.21	8.50	3.94	2.000	2	5/8	3 1/2	FM
	32	141.3	42.4	118.5	81.5	216	100	50.8		M16	89	
	1 1/2"	5.563	1.900	4.67	3.21	8.50	3.94	2.000	2	5/8	3 1/2	FM
	40	141.3	48.3	118.5	81.5	216	100	50.8		M16	89	
	2"	5.563	2.375	4.74	3.21	8.50	4.17	2.500	2	5/8	3 1/2	-
	50	141.3	60.3	120.5	81.5	216	106	63.5		M16	89	
6 1/4" O.D	1 1/2"	6.260	1.900	4.88	3.66	9.65	3.78	2.000	2	5/8	4 3/4	VDS
	40	159.0	48.3	124	93	245	96	50.8		M16	120	
6 1/2" O.D	1 1/4"	6.500	1.660	4.98	3.66	9.65	3.78	2.000	2	5/8	4 3/4	FM / UL
	32	165.1	42.4	126.5	93	245	96	50.8		M16	120	
	1 1/2"	6.500	1.900	4.98	3.66	9.65	3.78	2.000	2	5/8	4 3/4	FM
	40	165.1	48.3	126.5	93	245	96	50.8		M16	120	
	2"	6.500	2.375	4.98	3.66	9.65	4.21	2.500	2	5/8	4 3/4	FM
	50	165.1	60.3	126.5	93	245	107	63.5		M16	120	
	2 1/2"	6.500	2.875	5.31	3.66	9.65	4.21	2.750	2	5/8	4 3/4	FM / UL
		165.1	73.0	135	93	245	107	69.8		M16	120	
	3"	6.500	3.500	5.31	3.66	9.65	5.51	3.500	2	5/8	4 3/4	FM / UL
	80	165.1	88.9	135	93	245	140	88.9		M16	120	
	4"	6.500	4.500	5.41	3.78	9.65	6.06	4.500	2	5/8	4 3/4	FM / UL
	100	165.1	114.3	137.5	96	245	154	114.3		M16	120	
6" / 150	1 1/4"	6.625	1.660	5.23	3.74	9.72	3.78	2.000	2	5/8	4 3/4	FM / UL / VDS
	32	168.3	42.4	133	95	247	96	50.8		M16	120	
	1 1/2"	6.625	1.900	5.23	3.74	9.72	3.78	2.000	2	5/8	4 3/4	FM / UL / VDS
	40	168.3	48.3	133	95	247	96	50.8		M16	120	
	2"	6.625	2.375	5.12	3.74	9.72	4.21	2.500	2	5/8	4 3/4	FM / UL / VDS
	50	168.3	60.3	130	95	247	107	63.5		M16	120	
	2 1/2"	6.625	2.875	5.53	3.74	9.65	4.61	2.750	2	5/8	4 3/4	FM
		168.3	73.0	140.5	95	245	117	69.8		M16	120	
	3"	6.625	3.500	5.41	3.74	9.65	5.51	3.500	2	5/8	4 3/4	FM / UL / VDS
	80	168.3	88.9	137.5	95	245	140	88.9		M16	120	
	4"	6.625	4.500	5.61	3.86	9.72	6.16	4.500	2	5/8	4 3/4	FM / UL / VDS
	100	168.3	114.3	142.5	98	247	156.5	114.3		M16	120	
8" / 200	2"	8.625	2.375	6.42	4.88	12.60	4.61	2.500	2	3/4	4 3/4	-
	50	219.1	60.3	163	124	320	117	63.5		M20	120	
	2 1/2"	8.625	2.875	6.42	4.88	12.60	4.61	2.750	2	3/4	4 3/4	FM / UL
		219.1	73.0	163	124	320	117	69.8		M20	120	
	3"	8.625	3.500	6.42	4.88	12.60	5.37	3.500	2	3/4	4 3/4	VDS
	80	219.1	88.9	163	124	320	136.5	88.9		M20	120	
	4"	8.625	4.500	6.42	4.88	12.60	6.46	4.500	2	3/4	4 3/4	VDS
	100	219.1	114.3	163	124	320	164	114.3		M20	120	

BRANCH OUTLETS / Style 08G

QUIK-T™ BRANCH OUTLETS

Max. working pressure: 300 psi / 20 bar

STYLE 08G
Grooved



Nominal Size (Inch / DN)		Pipe Outside Diameter (Inch / mm)	Outlet Outside Diameter (Inch / mm)	Quik-T™ Dimensions (Inch / mm)				Hole Diameter (Inch / mm)	Bolts (Inch / mm)			Approvals
Run	Outlet			A	B	C	D	Tolerance +1/16"/+2.0mm	Qty.	Size	Length	
2" / 50	1 1/4"	2.375	1.660	3.01	1.63	5.31	3.23	1.750	2	3/8	2 1/4	FM / UL / VDS
	32	60.3	42.4	76.5	41.5	135	82	44.5		M10	57	
	1 1/2"	2.375	1.900	3.01	1.63	5.31	3.23	1.750	2	3/8	2 1/4	FM / UL / VDS
	40	60.3	48.3	76.5	41.5	135	82	44.5		M10	57	
2 1/2"	1 1/4"	2.875	1.660	3.23	1.89	5.91	3.62	2.000	2	1/2	3	FM / UL
	32	73.0	42.4	82	48	150	92	50.8		M12	76	
	1 1/2"	2.875	1.900	3.23	1.89	5.91	3.62	2.000	2	1/2	3	FM / UL
	40	73.0	48.3	82	48	150	92	50.8		M12	76	
3" O.D. / 65	1 1/4"	3.000	1.660	3.23	1.89	5.91	3.62	2.000	2	1/2	3	FM / UL / VDS
	32	76.1	42.4	82	48	150	92	50.8		M12	76	
	1 1/2"	3.000	1.900	3.23	1.89	5.91	3.62	2.000	2	1/2	3	FM / UL / VDS
	40	76.1	48.3	82	48	150	92	50.8		M12	76	
3" / 80	1 1/4"	3.500	1.660	3.74	2.22	6.30	3.74	2.000	2	1/2	3	FM / UL / VDS
	32	88.9	42.4	95	56.5	160	95	50.8		M12	76	
	1 1/2"	3.500	1.900	3.74	2.22	6.30	3.70	2.000	2	1/2	3	FM / UL / VDS
	40	88.9	48.3	95	56.5	160	94	50.8		M12	76	
	2"	3.500	2.375	3.74	2.22	6.30	4.13	2.500	2	1/2	3	FM / UL / VDS
	50	88.9	60.3	95	56.5	160	105	63.5		M12	76	
4" / 100	1 1/4"	4.500	1.660	4.09	2.72	7.36	3.78	2.000	2	1/2	3	FM / UL / VDS
	32	114.3	42.4	104	69	187	96	50.8		M12	76	
	1 1/2"	4.500	1.900	4.09	2.72	7.36	3.78	2.000	2	1/2	3	FM / UL / VDS
	40	114.3	48.3	104	69	187	96	50.8		M12	76	
	2"	4.500	2.375	4.09	2.72	7.36	4.21	2.500	2	1/2	3	FM / UL / VDS
	50	114.3	60.3	104	69	187	107	63.5		M12	76	
	2 1/2"	4.500	2.875	4.09	2.72	7.36	4.17	2.750	2	1/2	3	FM
		114.3	73.0	104	69	187	106	69.8		M12	76	
	3" OD	4.500	3.000	4.09	2.72	7.36	4.17	2.750	2	1/2	3	FM / UL / VDS
	65	114.3	76.1	104	69	187	106	69.8		M12	76	
	3"	4.500	3.500	4.41	2.72	7.36	5.12	3.500	2	1/2	3	FM / UL / VDS
	80	114.3	88.9	112	69	187	130	88.9		M12	76	

Table continued on next page

BRANCH OUTLETS / Style 08G

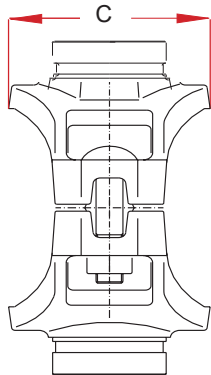
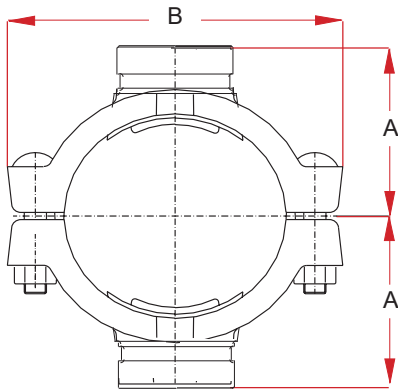
Nominal Size (Inch / DN)		Pipe Outside Diameter (Inch / mm)	Outlet Outside Diameter (Inch / mm)	Quik-T™ Dimensions (Inch / mm)				Hole Diameter (Inch / mm)	Bolts (Inch / mm)			Approvals
Run	Outlet			A	B	C	D	Tolerance +1/13"/+2.0mm	Qty.	Size	Length	
5½"O.D/125	1¼"	5.500	1.660	4.69	3.21	8.50	3.94	2.000	2	5/8	3½	FM / VDS
	32	139.7	42.4	119	81.5	216	100	50.8		M16	89	
	1½"	5.500	1.900	4.69	3.21	8.50	3.94	2.000	2	5/8	3½	FM / VDS
	40	139.7	48.3	119	81.5	216	100	50.8		M16	89	
	2"	5.500	2.375	4.69	3.21	8.50	4.17	2.500	2	5/8	3½	FM / VDS
	50	139.7	60.3	119	81.5	216	106	63.5		M16	89	
5"	3"OD	5.500	3.000	4.69	3.21	8.50	4.21	2.750	2	5/8	3½	FM / VDS
	65	139.7	76.1	119	81.5	216	107	69.8		M16	89	
	1¼"	5.563	1.660	4.69	3.21	8.50	3.94	2.000	2	5/8	3½	FM
	32	141.3	42.4	119	81.5	216	100	50.8		M16	89	
	1½"	5.563	1.900	4.69	3.21	8.50	3.94	2.000	2	5/8	3½	FM
	40	141.3	48.3	119	81.5	216	100	50.8		M16	89	
6½"O.D	2"	5.563	2.375	4.69	3.21	8.50	4.17	2.500	2	5/8	3½	-
	50	141.3	60.3	119	81.5	216	106	63.5		M16	89	
	2½"	5.563	2.875	4.69	3.21	8.50	4.21	2.750	2	5/8	3½	FM
	141.3	73.0	119	81.5	216	107	69.8	M16		89		
	1¼"	6.500	1.660	5.06	3.66	9.65	3.78	2.000	2	5/8	4¾	FM / UL
	32	165.1	42.4	128.5	93	245	96	50.8		M16	120	
6" / 150	1½"	6.500	1.900	5.06	3.66	9.65	3.78	2.000	2	5/8	4¾	FM
	40	165.1	48.3	128.5	93	245	96	50.8		M16	120	
	2"	6.500	2.375	5.20	3.66	9.65	4.21	2.500	2	5/8	4¾	FM
	50	165.1	60.3	132	93	245	107	63.5		M16	120	
	3"OD	6.500	3.000	5.08	3.66	9.65	4.21	2.750	2	5/8	4¾	FM / UL
	65	165.1	76.1	129	93	245	107	69.8		M16	120	
	3"	6.500	3.500	5.33	3.66	9.65	5.51	3.500	2	5/8	4¾	FM / UL
	80	165.1	88.9	135.5	93	245	140	88.9		M16	120	
	4"	6.500	4.500	5.41	3.84	9.65	6.06	4.500	2	5/8	4¾	FM / UL
	100	165.1	114.3	137.5	97.5	245	154	114.3		M16	120	
8" / 200	1¼"	6.625	1.660	5.23	3.74	9.65	3.78	2.000	2	5/8	4¾	FM / UL / VDS
	32	168.3	42.4	133	95	245	96	50.8		M16	120	
	1½"	6.625	1.900	5.14	3.74	9.65	3.78	2.000	2	5/8	4¾	FM / UL / VDS
	40	168.3	48.3	130.5	95	245	96	50.8		M16	120	
	2"	6.625	2.375	5.18	3.74	9.65	4.21	2.500	2	5/8	4¾	FM / UL / VDS
	50	168.3	60.3	131.5	95	245	107	63.5		M16	120	
	2½"	6.625	2.875	5.22	3.74	9.65	4.21	2.750	2	5/8	4¾	FM
	168.3	73.0	132.5	95	245	107	69.8	M16		120		
	3"OD	6.625	3.000	5.22	3.74	9.65	4.21	2.750	2	5/8	4¾	FM / UL / VDS
	65	168.3	76.1	132.5	95	245	107	69.8		M16	120	
8" / 200	3"	8.625	3.500	6.46	4.92	12.60	5.37	3.500	2	3/4	4¾	FM / UL / VDS
	65	219.1	76.1	158	125	320	118	69.8		M20	120	
	3"	8.625	3.500	6.46	4.92	12.60	5.37	3.500	2	3/4	4¾	VDS
	80	219.1	88.9	164	125	320	136.5	88.9		M20	120	
	4"	8.625	4.500	6.46	4.92	12.60	6.46	4.500	2	3/4	4¾	VDS
	100	219.1	114.3	164	125	320	164	114.3		M20	120	

BRANCH OUTLETS / Style 87G

QUIK-T™ BRANCH OUTLETS

Max. working pressure: 300 psi / 20 bar

STYLE 87G
Cross Grooved



Nominal Size (Inch / DN)		Pipe Outside Diameter (Inch / mm)	Outlet Outside Diameter (Inch / mm)	Quik-T™ Dimensions (Inch / mm)			Hole Diameter (Inch / mm)	Bolts (Inch / mm)			Approvals
Run	Outlet			A	B	C	Tolerance +1/16"/+2.0mm	Qty.	Size	Length	
2" / 50	1¼"	2.375	1.660	3.01	5.31	3.23	1.750	2	⅜	2¼	FM / UL
	32	60.3	42.4	76.5	135	82	44.5		M10	57	
	1½"	2.375	1.900	3.01	5.31	3.23	1.750	2	⅜	2¼	FM / UL
	40	60.3	48.3	76.5	135	82	44.5		M10	57	
2 ½"	1¼"	2.875	1.660	3.23	5.91	3.62	2.000	2	½	3	FM
	32	73.0	42.4	82	150	92	50.8		M12	76	
	1½"	2.875	1.900	3.23	5.91	3.62	2.000	2	½	3	FM
	40	73.0	48.3	82	150	92	50.8		M12	76	
3" O.D / 65	1¼"	3.000	1.660	3.23	5.91	3.62	2.000	2	½	3	FM / UL / VDS
	32	76.1	42.4	82	150	92	50.8		M12	76	
	1½"	3.000	1.900	3.23	5.91	3.62	2.000	2	½	3	FM / UL
	40	76.1	48.3	82	150	92	50.8		M12	76	
3" / 80	1¼"	3.500	1.660	3.74	6.30	3.74	2.000	2	½	3	FM / UL / VDS
	32	88.9	42.4	95	160	95	50.8		M12	76	
	1½"	3.500	1.900	3.74	6.30	3.70	2.000	2	½	3	FM / UL / VDS
	40	88.9	48.3	95	160	94	50.8		M12	76	
	2"	3.500	2.375	3.74	6.30	4.13	2.500	2	½	3	FM / UL
	50	88.9	60.3	95	160	105	63.5		M12	76	
4" / 100	1¼"	4.500	1.660	4.09	7.36	3.78	2.000	2	½	3	FM / UL / VDS
	32	114.3	42.4	104	187	96	50.8		M12	76	
	1½"	4.500	1.900	4.09	7.36	3.78	2.000	2	½	3	FM / UL / VDS
	40	114.3	48.3	104	187	96	50.8		M12	76	
	2"	4.500	2.375	4.09	7.36	4.21	2.500	2	½	3	FM / UL / VDS
	50	114.3	60.3	104	187	107	63.5		M12	76	
	2½"	4.500	2.875	4.09	7.36	4.17	2.750	2	½	3	FM
		114.3	73.0	104	187	106	69.8		M12	76	
	3"OD	4.500	3.000	4.09	7.36	4.17	2.750	2	½	3	FM / UL
	65	114.3	76.1	104	187	106	69.8		M12	76	
5½" O.D/125	3"	4.500	3.500	4.09	7.36	5.12	3.500	2	½	3	FM / UL
	80	114.3	88.9	104	187	130	88.9		M12	76	
	1¼"	5.500	1.660	4.69	8.50	3.94	2.000	2	⅝	3½	FM / VDS
	32	139.7	42.4	119	216	100	50.8		M16	89	
	1½"	5.500	1.900	4.69	8.50	3.94	2.000	2	⅝	3½	FM / VDS
	40	139.7	48.3	119	216	100	50.8		M16	89	
	2"	5.500	2.375	4.69	8.50	4.17	2.500	2	⅝	3½	FM / VDS
	50	139.7	60.3	119	216	106	63.5		M16	89	
3"OD	5.500	3.000	4.69	8.50	4.21	2.750	2	⅝	3½	FM / VDS	
	65	139.7	76.1	119	216	107		69.8	M16		89

Table continued on next page

Nominal Size (Inch / DN)		Pipe Outside Diameter (Inch / mm)	Outlet Outside Diameter (Inch / mm)	Quik-T™ Dimensions (Inch / mm)			Hole Diameter (Inch / mm)	Bolts (Inch / mm)			Approvals
Run	Outlet			A	B	C	Tolerance +1/13"/+2.0mm	Qty.	Size	Length	
5"	1¼"	5.563	1.660	4.69	8.50	3.94	2.000	2	5/8	3½	FM
	32	141.3	42.4	119	216	100	50.8		M16	89	
	1½"	5.563	1.900	4.69	8.50	3.94	2.000	2	5/8	3½	FM
	40	141.3	48.3	119	216	100	50.8		M16	89	
	2"	5.563	2.375	4.69	8.50	4.17	2.500	2	5/8	3½	-
	50	141.3	60.3	119	216	106	63.5		M16	89	
2½"	5.563	2.875	4.69	8.50	4.21	2.750	2	5/8	3½	FM	
	141.3	73.0	119	216	107	69.8		M16	89		
6½"O.D	1¼"	6.500	1.660	5.06	9.65	3.78	2.000	2	5/8	4¾	FM
	32	165.1	42.4	128.5	245	96	50.8		M16	120	
	1½"	6.500	1.900	5.06	9.65	3.78	2.000	2	5/8	4¾	FM
	40	165.1	48.3	128.5	245	96	50.8		M16	120	
	2"	6.500	2.375	5.20	9.65	4.21	2.500	2	5/8	4¾	FM
	50	165.1	60.3	132	245	107	63.5		M16	120	
	3"OD	6.500	3.000	5.08	9.65	4.21	2.750	2	5/8	4¾	FM
	65	165.1	76.1	129	245	107	69.8		M16	120	
	3"	6.500	3.500	5.33	9.65	5.51	3.500	2	5/8	4¾	FM / UL
	80	165.1	88.9	135.5	245	140	88.9		M16	120	
4"	6.500	4.500	5.41	9.65	6.06	4.500	2	5/8	4¾	FM / UL	
	100	165.1	114.3	137.5	245	154		114.3	M16		120
6" / 150	1¼"	6.625	1.660	5.24	9.65	3.78	2.000	2	5/8	4¾	FM / UL / VDS
	32	168.3	42.4	133	245	96	50.8		M16	120	
	1½"	6.625	1.900	5.14	9.65	3.78	2.500	2	5/8	4¾	FM / UL / VDS
	40	168.3	48.3	130.5	245	96	63.5		M16	120	
	2"	6.625	2.375	5.18	9.65	4.21	2.500	2	5/8	4¾	FM / UL / VDS
	50	168.3	60.3	131.5	245	107	63.5		M16	120	
	2½"	6.625	2.875	5.18	9.65	4.21	2.500	2	5/8	4¾	FM
		168.3	73.0	132.5	245	107	63.5		M16	120	
	3"OD	6.625	3.000	5.18	9.65	4.21	2.750	2	5/8	4¾	FM / UL / VDS
	65	168.3	76.1	132.5	245	107	69.8		M16	120	
	3"	6.625	3.500	5.45	9.72	5.51	3.500	2	5/8	4¾	FM / UL / VDS
80	168.3	88.9	138.5	247	140	88.9	M16		120		
4"	6.625	4.500	5.55	9.72	6.16	4.500	2	5/8	4¾	FM / UL	
100	168.3	114.3	141	247	156.5	114.3		M16	120		
8" / 200	3"OD	8.625	3.000	6.22	12.60	4.65	2.750	2	¾	4¾	-
	65	219.1	76.1	158	320	118	69.8		M20	120	
	3"	8.625	3.500	6.46	12.60	5.37	3.500	2	¾	4¾	-
	80	219.1	88.9	164	320	136.5	88.9		M20	120	
	4"	8.625	4.500	6.46	12.60	6.46	4.500	2	¾	4¾	-
100	219.1	114.3	164	320	164	114.3	M20		120		

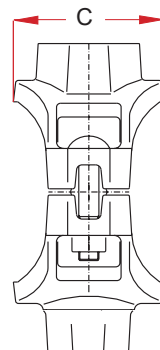
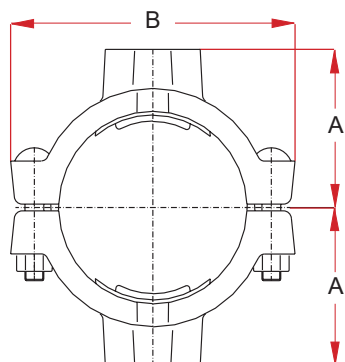
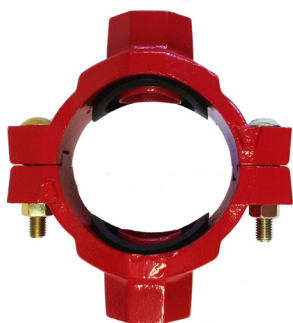
BRANCH OUTLETS / Style 88T

QUIK-T™ BRANCH OUTLETS

Max. working pressure: 300 psi / 20 bar

STYLE 88T

Cross Threaded



Nominal Size (Inch / DN)		Pipe Outside Diameter (Inch / mm)	Outlet Outside Diameter (Inch / mm)	Quik-T™ Dimensions (Inch / mm)			Hole Diameter (Inch / mm) Tolerance +1/16"/+2.0mm	Bolts (Inch / mm)			Approvals
Run	Outlet			A	B	C		Qty.	Size	Length	
2" / 50	1/2"	2.375	0.839	2.28	5.31	3.00	1.500	2	3/8	2 1/4	FM / UL / VDS
	15	60.3	21.3	58	135	76	38.1		M10	57	
	3/4"	2.375	1.050	2.28	5.31	3.00	1.500	2	3/8	2 1/4	FM / UL / VDS
	20	60.3	26.9	58	135	76	38.1		M10	57	
	1"	2.375	1.315	2.58	5.31	3.00	1.500	2	3/8	2 1/4	FM / UL / VDS
	25	60.3	33.7	65.5	135	76	38.1		M10	57	
	1 1/4"	2.375	1.660	2.74	5.31	3.23	1.750	2	3/8	2 1/4	FM / UL
	32	60.3	42.4	69.5	135	82	44.5		M10	57	
2 1/2"	1 1/2"	2.375	1.900	2.74	5.31	3.23	1.750	2	3/8	2 1/4	FM / UL
	40	60.3	48.3	69.5	135	82	44.5		M10	57	
	1/2"	2.875	0.839	2.64	5.91	3.62	1.500	2	3/8	2 1/4	FM / UL
	15	73.0	21.3	67	150	92	38.1		M10	57	
	3/4"	2.875	1.050	2.72	5.91	3.62	1.500	2	3/8	2 1/4	FM / UL
	20	73.0	26.9	69	150	92	38.1		M10	57	
	1"	2.875	1.315	2.83	5.91	3.62	1.500	2	3/8	2 1/4	FM / UL
	25	73.0	33.7	72	150	92	38.1		M10	57	
3" O.D. / 65	1 1/4"	2.875	1.660	3.00	5.91	3.62	1.750	2	3/8	2 1/4	FM / UL
	32	73.0	42.4	76	150	92	44.5		M10	57	
	1 1/2"	2.875	1.900	3.00	5.91	3.62	1.750	2	3/8	2 1/4	FM / UL
	40	73.0	48.3	76	150	92	44.5		M10	57	
	1/2"	3.000	0.839	2.64	5.91	3.62	1.500	2	1/2	3	FM / UL / VDS
	15	76.1	21.3	67	150	92	38.1		M12	76	
	3/4"	3.000	1.050	2.72	5.91	3.62	1.500	2	1/2	3	FM / UL / VDS
	20	76.1	26.9	69	150	92	38.1		M12	76	
3" / 80	1"	3.000	1.315	2.83	5.91	3.62	1.500	2	1/2	3	FM / UL / VDS
	25	76.1	33.7	72	150	92	38.1		M12	76	
	1 1/4"	3.000	1.660	3.00	5.91	3.62	2.000	2	1/2	3	FM / UL / VDS
	32	76.1	42.4	76	150	92	50.8		M12	76	
	1 1/2"	3.000	1.900	3.00	5.91	3.62	2.000	2	1/2	3	FM / UL
	40	76.1	48.3	76	150	92	50.8		M12	76	
	1/2"	3.500	0.839	2.80	6.30	3.15	1.500	2	1/2	3	FM / UL / VDS
	15	88.9	21.3	71	160	80	38.1		M12	76	
	3/4"	3.500	1.050	3.00	6.30	3.15	1.500	2	1/2	3	FM / UL / VDS
	20	88.9	26.9	76	160	80	38.1		M12	76	
3" / 80	1"	3.500	1.315	3.05	6.30	3.15	1.500	2	1/2	3	FM / UL / VDS
	25	88.9	33.7	77.5	160	80	38.1		M12	76	
	1 1/4"	3.500	1.660	3.44	6.30	3.70	2.000	2	1/2	3	FM / UL / VDS
	32	88.9	42.4	87.5	160	94	50.8		M12	76	
	1 1/2"	3.500	1.900	3.44	6.30	3.70	2.000	2	1/2	3	FM / UL / VDS
	40	88.9	48.3	87.5	160	94	50.8		M12	76	
	2"	3.500	2.375	3.54	6.30	4.02	2.500	2	1/2	3	FM / UL
	50	88.9	60.3	90	160	102	63.5		M12	76	

Table continued on next page

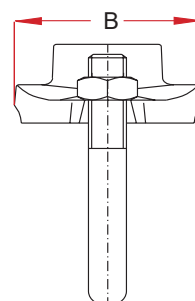
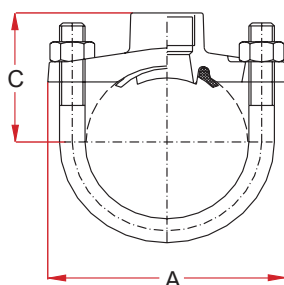
Nominal Size (Inch / DN)		Pipe Outside Diameter (Inch / mm)	Outlet Outside Diameter (Inch / mm)	Quik-T™ Dimensions (Inch / mm)			Hole Diameter (Inch / mm)	Bolts (Inch / mm)			Approvals
Run	Outlet			A	B	C		Qty.	Size	Length	
4¼" O.D	1½"	4.250	1.900	3.98	7.13	3.78	2.000	2	½	3	VDS
	40	108.0	48.3	101	181	96	50.8		M12	76	
4" / 100	½"	4.500	0.839	3.43	7.36	3.78	1.500	2	½	3	FM / VDS
	15	114.3	21.3	87	187	96	38.1		M12	76	
	¾"	4.500	1.050	3.50	7.36	3.78	1.500	2	½	3	FM / VDS
	20	114.3	26.9	89	187	96	38.1		M12	76	
	1"	4.500	1.315	3.62	7.36	3.78	1.500	2	½	3	FM / VDS
	25	114.3	33.7	92	187	96	38.1		M12	76	
	1¼"	4.500	1.660	4.09	7.36	3.78	2.000	2	½	3	FM / UL / VDS
	32	114.3	42.4	104	187	96	50.8		M12	76	
	1½"	4.500	1.900	4.09	7.36	3.78	2.000	2	½	3	FM / UL / VDS
	40	114.3	48.3	104	187	96	50.8		M12	76	
	2"	4.500	2.375	4.09	7.36	4.21	2.500	2	½	3	FM / UL / VDS
	50	114.3	60.3	104	187	107	63.5		M12	76	
	2½"	4.500	2.875	4.09	7.36	4.17	2.750	2	½	3	VDS
		114.3	73.0	104	187	106	69.8		M12	76	
	3"	4.500	3.500	4.41	7.36	5.12	3.500	2	½	3	FM / UL
	80	114.3	88.9	112	187	130	88.9		M12	76	
4½" O.D	1½"	5.250	1.900	4.51	8.19	3.78	2.000	2	⅝	3½	VDS
	40	133.4	48.3	114.5	208	96	50.8		M16	89	
5½" O.D/125	1¼"	5.500	1.660	4.67	8.50	3.94	2.000	2	⅝	3½	FM / VDS
	32	139.7	42.4	118.5	216	100	50.8		M16	89	
	1½"	5.500	1.900	4.67	8.50	3.94	2.000	2	⅝	3½	FM / VDS
	40	139.7	48.3	118.5	216	100	50.8		M16	89	
	2"	5.500	2.375	4.74	8.50	4.21	2.500	2	⅝	3½	FM / VDS
	50	139.7	60.3	120.5	216	107	63.5		M16	89	
5"	1¼"	5.563	1.660	4.67	8.50	3.94	2.000	2	⅝	3½	FM
	32	141.3	42.4	118.5	216	100	50.8		M16	89	
	1½"	5.563	1.900	4.67	8.50	3.94	2.000	2	⅝	3½	FM
	40	141.3	48.3	118.5	216	100	50.8		M16	89	
	2"	5.563	2.375	4.74	8.50	4.21	2.500	2	⅝	3½	-
	50	141.3	60.3	120.5	216	107	63.5		M16	89	
6¼" O.D	1½"	6.250	1.900	4.88	9.37	3.78	2.000	2	⅝	4¾	VDS
	40	159.0	48.3	124	238	96	50.8		M16	120	
6½" O.D	1¼"	6.500	1.660	4.98	9.65	3.78	2.000	2	⅝	4¾	FM
	32	165.1	42.4	126.5	245	96	50.8		M16	120	
	1½"	6.500	1.900	4.98	9.65	3.78	2.000	2	⅝	4¾	FM
	40	165.1	48.3	126.5	245	96	50.8		M16	120	
	2"	6.500	2.375	4.98	9.65	4.21	2.000	2	⅝	4¾	FM
	50	165.1	60.3	126.5	245	107	50.8		M16	120	
	2½"	6.500	2.875	5.31	9.65	4.21	2.500	2	⅝	4¾	-
		165.1	73.0	135	245	107	63.5		M16	120	
	3"	6.500	3.500	5.31	9.65	5.51	2.750	2	⅝	4¾	FM / UL
	80	165.1	88.9	135	245	140	69.8		M16	120	
	4"	6.500	4.500	5.41	9.65	6.06	3.500	2	⅝	4¾	FM / UL
	100	165.1	114.3	137.5	245	154	88.9		M16	120	
6" / 150	1¼"	6.625	1.660	5.23	9.65	3.78	2.000	2	⅝	4¾	FM
	32	168.3	42.4	133	245	96	50.8		M16	120	
	1½"	6.625	1.900	5.23	9.65	3.78	2.000	2	⅝	4¾	FM
	40	168.3	48.3	133	245	96	50.8		M16	120	
	2"	6.625	2.375	5.12	9.65	4.21	2.500	2	⅝	4¾	FM
	50	168.3	60.3	130	245	107	63.5		M16	120	
	2½"	6.625	2.875	5.53	9.65	4.21	2.750	2	⅝	4¾	-
		168.3	73.0	140.5	245	107	69.8		M16	120	
	3"	6.625	3.500	5.41	9.72	5.51	3.500	2	⅝	4¾	FM / UL
	80	168.3	88.9	137.5	247	140	88.9		M16	120	
	4"	6.625	4.500	5.67	9.72	6.30	4.500	2	⅝	4¾	FM / UL
	100	168.3	114.3	144	247	160	114.3		M16	120	
8" / 200	2"	8.625	2.375	6.42	12.60	4.61	2.500	2	¾	4¾	-
	50	219.1	60.3	163	320	117	63.5		M20	120	
	2½"	8.625	2.875	6.42	12.60	4.65	2.750	2	¾	4¾	-
		219.1	73.0	163	320	118	69.8		M20	120	
	3"	8.625	3.500	6.42	12.60	5.37	3.500	2	¾	4¾	-
	80	219.1	88.9	163	320	136.5	88.9		M20	120	
	4"	8.625	4.500	6.42	12.80	6.46	4.500	2	¾	4¾	-
	100	219.1	114.3	163	325	164	114.3		M20	120	

BRANCH OUTLETS / Style 99

QUIK-T™ BRANCH OUTLETS

Max. working pressure: 300 psi / 20 bar

STYLE 99 QUIKLET™ Sprinkler Fitting



Nominal Size (Inch / DN)		Pipe Outside Diameter (Inch / mm)	Outlet Type	Quik-T™ Dimensions (Inch / mm)			Hole Diameter (Inch / mm) Tolerance +1/16"/+1.6mm	U-Bolts (Inch / mm)			Approvals
Run	Outlet			A	B	C		Nut Qty.	Size	Length	
1 1/4" / 32	3/8"	1.660	BSP	3.58	2.28	1.69	1.18	2	3/8	2 1/2"	-
	10	42.4		91	58	43	30		M10	65	
	1/2"	1.660	BSP / NPT	3.58	2.28	1.69	1.18	2	3/8	2 1/2"	FM / UL / VDS
	15	42.4		91	58	43	30		M10	65	
	3/4"	1.660	BSP / NPT	3.58	2.28	1.97	1.18	2	3/8	2 1/2"	FM / UL / VDS
	20	42.4		91	58	50	30		M10	65	
1 1/2" / 40	1"	1.660	BSP / NPT	3.58	2.28	2.20	1.18	2	3/8	2 1/2"	FM / VDS
	25	42.4		91	58	56	30		M10	65	
	3/8"	1.900	BSP	3.58	2.28	1.74	1.18	2	3/8	2 1/2"	FM / UL / VDS
	10	48.3		91	58	44.3	30		M10	65	
	1/2"	1.900	BSP / NPT	3.58	2.28	1.74	1.18	2	3/8	2 1/2"	FM / UL / VDS
	15	48.3		91	58	44.3	30		M10	65	
2" / 50	3/4"	1.900	BSP / NPT	3.58	2.28	2.00	1.18	2	3/8	2 1/2"	FM / UL / VDS
	20	48.3		91	58	51	30		M10	65	
	1"	1.900	BSP / NPT	3.58	2.28	2.26	1.18	2	3/8	2 1/2"	FM / VDS
	25	48.3		91	58	57.3	30		M10	65	
	3/8"	2.375	BSP	3.82	2.28	1.97	1.18	2	3/8	3 1/4"	-
	10	60.3		97	58	50	30		M10	80	
2 1/2"	1/2"	2.375	BSP / NPT	3.82	2.28	1.97	1.18	2	3/8	3 1/4"	FM / UL / VDS
	15	60.3		97	58	50	30		M10	80	
	3/4"	2.375	BSP / NPT	3.82	2.28	2.26	1.18	2	3/8	3 1/4"	FM / UL / VDS
	20	60.3		97	58	57.5	30		M10	80	
	1"	2.375	BSP / NPT	3.82	2.28	2.50	1.18	2	3/8	3 1/4"	FM / UL / VDS
	25	60.3		97	58	63.5	30		M10	80	
2 1/2"	1/2"	2.875	BSP / NPT	4.41	2.24	2.50	1.18	2	1/2	4 1/2"	FM
	15	73.0		112	57	63.5	30		M12	110	
	3/4"	2.875	BSP / NPT	4.41	2.24	2.54	1.18	2	1/2	4 1/2"	FM
	20	73.0		112	57	64.5	30		M12	110	
	1"	2.875	BSP / NPT	4.41	2.24	2.85	1.18	2	1/2	4 1/2"	FM
	25	73.0		112	57	72.5	30		M12	110	
3" O.D. / 65	1/2"	3.000	BSP	4.41	2.24	2.50	1.18	2	1/2	4 1/2"	FM / UL / VDS
	15	76.1		112	57	63.5	30		M12	110	
	3/4"	3.000	BSP	4.41	2.24	2.54	1.18	2	1/2	4 1/2"	FM / UL / VDS
	20	76.1		112	57	64.5	30		M12	110	
	1"	3.000	BSP	4.41	2.24	2.85	1.18	2	1/2	4 1/2"	FM / UL / VDS
	25	76.1		112	57	72.5	30		M12	110	

Style 99 BOLT TORQUE:

3/8" / M10 : 30-50 ft-lb / 41-68 N·m

1/2" / M12: 44-59 ft-lb / 60-80 N·m



POWDER COATING



ASSEMBLY LINE

VALVES / Style 300S/D

GROOVED END BUTTERFLY VALVE

Specifications:

Size: DN50(2") - DN300(12")

Working Pressure: 145/232 psi or PN10/16

Working Temperature: 32°-212 °F / 0° - 100° °C

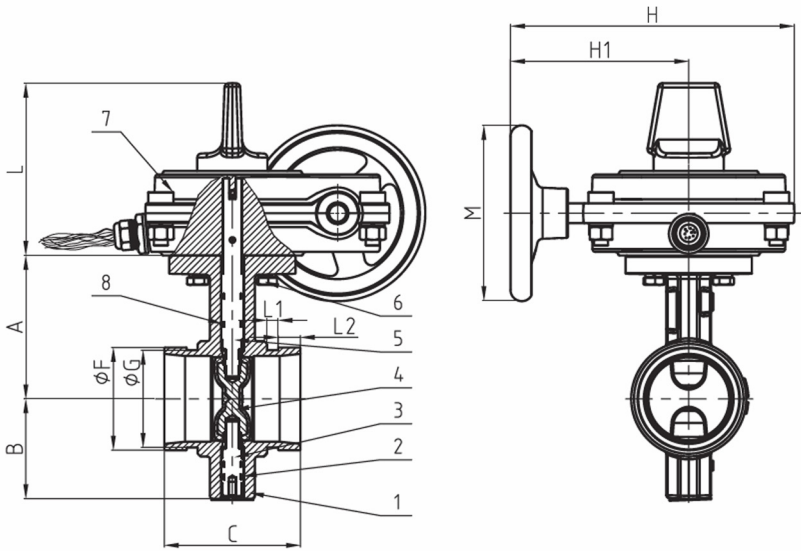
Material

- 1. Body: ASTM A536 65-45-12
- 2. O-ring: NBR/EPDM
- 3. Stub shaft: SS431
- 4. Disc: ASTM A536 65-45-12+EPDM
- 5. Stem: SS431
- 6. Hex nut: Carbon Steel Zinc Plated
- 7. Gearbox: ASTM A536 65-45-12
- 8. O-ring: NBR/EPDM

Coating: Fusion bonded Epoxy coating

Note:

Valve must not be installed with disc in full open position.
Disc must be partly closed so that no part is protruding beyond end of valve body.



Nominal Size (Inch / DN)	Dimensions (Inch / mm)											Approvals
	F	G	A	B	C	L	L1	L2	H1	H	M	
2" / 50	2.375	2.2500	3.50	2.56	3.19	4.823	0.3122	0.6252	5.00	7.961	4.92	FM / UL / VDS
	60.3	57.15	89	65	81	122.5	7.93	15.88	127	202.2	125	
3" O.D / 65	3.000	2.7200	4.02	2.80	3.82	4.823	0.3122	0.6252	5.00	7.961	4.92	FM / UL / VDS
	76.1	69.09	102	71	97	122.5	7.93	15.88	127	202.2	125	
3" / 80	3.500	3.3441	4.29	3.19	3.82	4.823	0.3122	0.6252	5.00	7.961	4.92	FM / UL / VDS
	88.9	84.94	109	81	97	122.5	7.93	15.88	127	202.2	125	
4" / 100	4.500	4.3339	5.04	3.74	4.57	4.823	0.3752	0.6252	5.00	7.961	4.92	FM / UL / VDS
	114.3	110.08	128	95	116	122.5	9.53	15.88	127	202.2	125	
5½" O.D / 125	5.500	5.3949	5.55	4.37	5.83	4.823	0.3752	0.6252	5.00	7.961	4.92	FM / UL / VDS
	139.7	137.03	141	111	148	122.5	9.53	15.88	127	202.2	125	
6" / 150	6.625	6.4552	6.05	5.24	5.83	4.823	0.3752	0.6252	5.00	7.961	8.86	FM / UL / VDS
	168.3	163.96	153	133	148	122.5	9.53	15.88	127	202.2	225	
8" / 200	8.625	8.4409	7.24	6.46	5.24	4.823	0.4370	0.7500	7.28	10.244	8.86	FM / UL / VDS
	219.1	214.40	184	164	133	122.5	11.10	19.05	185	260.2	225	
10" / 250	10.750	10.5622	8.50	7.72	6.26	4.823	0.5000	0.7500	7.28	10.244	8.86	FM / UL / VDS
	273.0	268.28	216	196	159	122.5	12.70	19.05	185	260.2	225	
12" / 300	12.750	12.5311	10.00	8.90	6.50	5.197	0.5000	0.7500	7.972	11.713	8.86	FM / UL / VDS
	323.9	318.29	254	226	165	132.0	12.70	19.05	202.5	297.5	225	

VALVES / Style 400S/D

WAFER BUTTERFLY VALVE

Specifications:

Size: DN50(2") - DN300(12")

Working Pressure: 145/232 psi or PN10/16

Working Temperature: 32°-212 °F / 0° - 100° °C

Material

1. Body: ASTM A536 65-45-12

2. O-ring: NBR/EPDM

3. Stub shaft: SS431

4. Disc: ASTM A536 65-45-12+EPDM

5. Hex nut: Carbon Steel Zinc Plated

6. Gearbox: ASTM A536 65-45-12

7. Stem: SS431

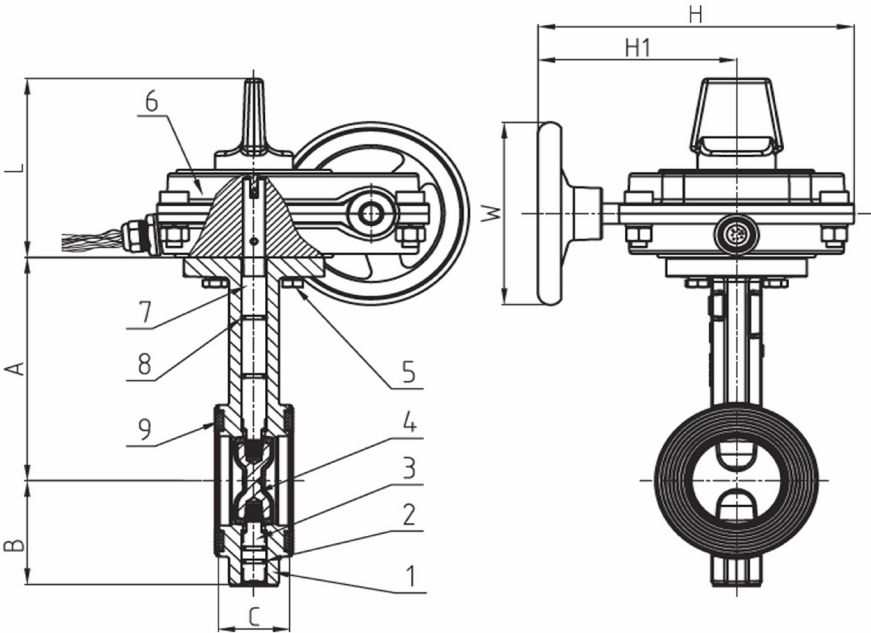
8. O-ring: NBR/EPDM

9. End face seal: NBR/EPDM

Coating: Fusion bonded Epoxy coating

Note:

Valve must not be installed with disc in full open position. Disc must be partly closed so that no part is protruding beyond end of valve body.



Nominal Size (Inch / DN)	Dimensions (Inch / mm)							Approvals
	A	B	C	L	H1	H	W	
2" / 50	5.531	2.56	1.69	4.823	5.00	7.961	4.92	FM / UL / VDS
	140.5	65	43	122.5	127	202.2	125	
3" O.D. / 65	6.02	2.80	1.81	4.823	5.00	7.961	4.92	FM / UL / VDS
	153	71	46	122.5	127	202.2	125	
3" / 80	6.200	3.19	1.81	4.823	5.00	7.961	4.92	FM / UL / VDS
	157.5	81	46	122.5	127	202.2	125	
4" / 100	6.93	3.74	2.05	4.823	5.00	7.961	4.92	FM / UL / VDS
	176	95	52	122.5	127	202.2	125	
5½" O.D. / 125	7.52	4.37	2.20	4.823	5.00	7.961	4.92	FM / UL / VDS
	191	111	56	122.5	127	202.2	125	
6" / 150	7.972	5.24	2.20	4.823	5.00	7.961	8.86	FM / UL / VDS
	202.5	133	56	122.5	127	202.2	225	
8" / 200	9.587	6.46	2.36	4.823	7.28	10.244	8.86	FM / UL / VDS
	243.5	164	60	122.5	185	260.2	225	
10" / 250	10.75	7.72	2.68	4.823	7.28	10.244	8.86	FM / UL / VDS
	273	196	68	122.5	185	260.2	225	
12" / 300	12.24	8.90	3.07	5.197	7.972	11.713	8.86	FM / UL / VDS
	311	226	78	132.0	202.5	297.5	225	

VALVES / Style 550T

THREADED BUTTERFLY VALVE

Specifications:

Size: DN25(1") - DN50(2")

Working Pressure: 145/232 psi(psig) PN10/16

Working Temperature: 32°-212 °F / 0° - 100° °C

Material

1. Body: ASTM A536 65-45-12

2. Screw: Carbon Steel Zinc Plated

3. Stem: SS420

4. O-ring: NBR/EPDM

5. Disc: Carbon steel+EPDM/NBR

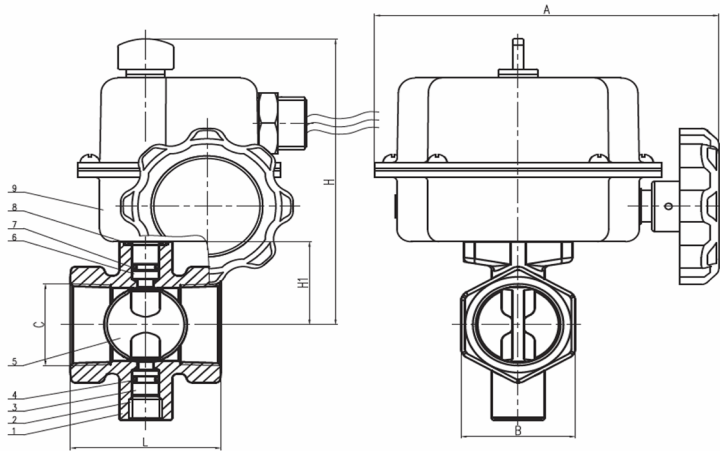
6. Stem: SS420

7. O-ring: NBR/EPDM

8. O-ring: NBR/EPDM

9. Gear box: Carbon steel

Coating: Fusion bonded Epoxy coating



Nominal Size (Inch / DN)	Dimensions (Inch / mm)						Approvals
	L	H	H1	A	B	C(Rc)	
1" / 25	2.13	4.53	1.30	4.92	4.61	1.000	FM / UL
	54	115	33	125	41	25.4	
1¼" / 32	2.64	4.626	1.46	4.92	1.93	1.250	FM / UL
	67	117.5	37	125	49	31.8	
1½" / 40	2.87	4.76	1.594	4.92	2.185	1.500	FM / UL
	73	121	40.5	125	55.5	38.1	
2" / 50	3.248	5.16	1.89	4.92	2.80	2.00	FM / UL
	82.5	131	48	125	71	50.8	

VALVES / Style 700S

STYLE 700S GROOVED END BUTTERFLY VALVE WITH HAND LEVER

Specifications:

Size: DN50(2") - DN300(12")

Working Pressure: 145/232 psi or PN10/16

Working Temperature: 32°-212 °F / 0° - 100° °C

Material

1. Body: ASTM A536 65-45-12

2. Disc: ASTM A536 65-45-12

3. O-ring: NBR/EPDM

4. Stub shaft: SS420

5. O-ring: NBR/EPDM

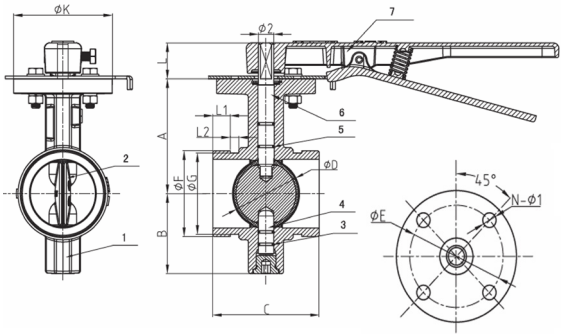
6. Drive shaft: SS420

7. Hand lever: ASTM A536 65-45-12

Coating: Fusion bonded Epoxy coating

Note: Valve must not be installed with disc in full open position.
Disc must be partly closed so that no part is protruding beyond end of valve body.

see additional sketch and table on next page



VALVES / Style 700S - 750S

STYLE 750S GROOVED END BUTTERFLY VALVE WITH GEAR OPERATOR

Specifications:

Size: DN50(2") - DN300(12")

Working Pressure: 145/232 psi or PN10/16

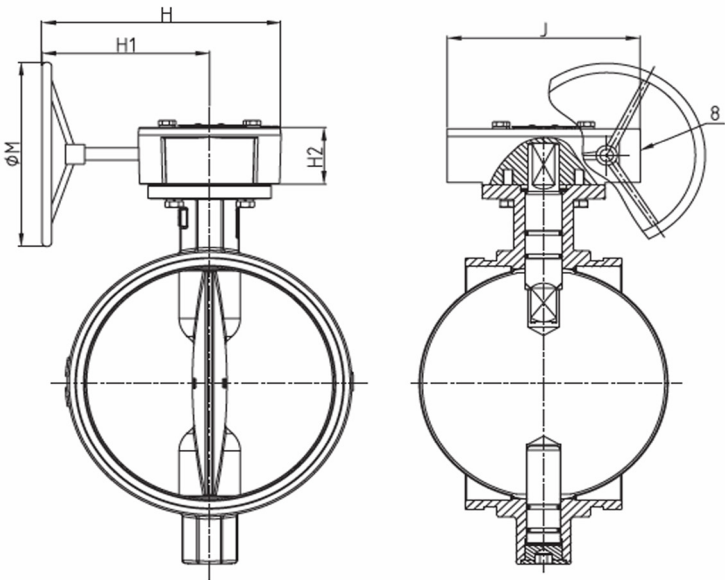
Working Temperature: 32°-212 °F / 0° - 100° °C

Material

- 1. Body: ASTM A536 65-45-12
- 2. Disc: ASTM A536 65-45-12
- 3. O-ring: NBR/EPDM
- 4. Stub shaft: SS420
- 5. O-ring: NBR/EPDM
- 6. Drive shaft: SS420
- 7. Hand lever: ASTM A536 65-45-12
- 8. Gear box: ASTM A536 65-45-12

Coating: Fusion bonded Epoxy coating

Note: Valve must not be installed with disc in full open position.
Disc must be partly closed so that no part is protruding beyond end of valve body.



Nominal Size (Inch / DN)	Dimensions (Inch / mm)																		
	A	B	C	ØD	ØF	ØG	L1	L2	L	ØK	H	H1	H2	J	ØM	Ø2	ISO-5211	ØE	N-Ø1
2" / 50	3.50	2.56	3.19	1.980	2.375	2.2500	0.625	0.312	1.26	3.54	8.11	6.22	2.05	4.49	5.91	0.55	F07	2.76	4-Ø10
	89	65	81	50.3	60.3	57.15	15.88	7.93	32	90	206	158	52	114	150	14		70	
3"O.D / 65	4.02	2.80	3.82	2.394	3.000	2.8449	0.625	0.312	1.26	3.54	8.11	6.22	2.05	4.49	5.91	0.55	F07	2.76	4-Ø10
	102	71	97	60.8	76.1	72.26	15.88	7.93	32	90	206	158	52	114	150	14		70	
3" / 80	4.29	3.19	3.82	2.992	3.500	3.3441	0.625	0.312	1.26	3.54	8.11	6.22	2.05	4.49	5.91	0.55	F07	2.76	4-Ø10
	109	81	97	76.0	88.9	84.94	15.88	7.93	32	90	206	158	52	114	150	14		70	
4" / 100	5.04	3.74	4.57	3.878	4.500	4.3339	0.625	0.375	1.26	3.54	8.11	6.22	2.05	4.49	5.91	0.63	F07	2.76	4-Ø10
	128	95	116	98.5	114.3	110.08	15.88	9.53	32	90	206	158	52	114	150	16		70	
5½"O.D/ 125	5.55	4.37	5.83	4.827	5.500	5.3339	0.625	0.375	1.26	3.54	8.11	6.22	2.05	4.49	5.91	0.63	F07	2.76	4-Ø10
	141	111	148	122.6	139.7	135.48	15.88	9.53	32	90	206	158	52	114	150	16		70	
6" / 150	6.05	5.24	5.83	5.827	6.625	6.4552	0.625	0.375	1.26	3.54	8.11	6.22	2.05	4.49	5.91	0.79	F07	2.76	4-Ø10
	153	133	148	148.0	168.3	163.96	15.88	9.53	32	90	206	158	52	114	150	20		70	
8" / 200	7.24	6.46	5.23	7.835	8.625	8.4409	0.750	0.437	1.77	4.92	12.20	9.41	2.72	6.57	11.81	1.02	F10	4.02	4-Ø12
	184	164	133	199.0	219.1	214.40	19.05	11.10	45	125	310	239	69	167	300	26		102	
10" / 250	8.50	7.72	6.26	9.921	10.750	10.5622	0.750	0.500	1.77	4.92	12.20	9.41	2.72	6.57	11.81	1.02	F10	4.02	4-Ø12
	216	196	159	252.0	273.0	268.28	19.05	12.70	45	125	310	239	69	167	300	26		102	
12" / 300	10.00	8.90	6.50	11.830	12.750	12.5311	0.750	0.500	1.77	4.92	12.09	9.02	2.87	7.48	11.81	1.10	F10	4.02	4-Ø12
	254	226	165	300.5	323.9	318.29	19.05	12.70	45	125	307	229	73	190	300	28		102	

VALVES / Style 800D

GROOVED SWING CHECK VALVE

Specifications:

Size: DN50(2") - DN300(12")

Working Pressure: 232 psi or PN16

Working Temperature: 32°-212 °F / 0° - 100° °C

Material

1. Body: ASTM A536 65-45-12

2. Hinge Pin: SS420

3. Spring: SS304

4. Eye Bolt: Carbon Steel Zinc Plated

5. Disc: DN50-DN100: SS304

DN150-DN300: ASTM A536 65-45-12

6. Disc sealing ring: EPDM

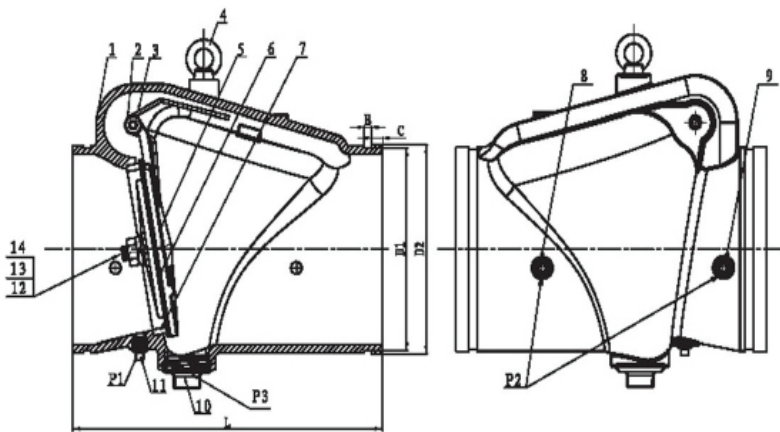
7. Seat Ring: ASTM B62 C83600 (Pressed Fit)

8.-11. Plug: Malleable Iron Galvanized

12. Bolt: SS304

13. Washer: SS304

14. Nut: SS304



Nominal Size (Inch / DN)	Dimensions (Inch / mm)								Approvals
	L	D1	D2	B	C	P1	P2	P3	
2" / 50	6.73	2.2500	2.375	0.3122	0.6252	0.020	0.0148	0.020	FM / UL / VDS
	171	57.15	60.3	7.93	15.88	0.5	0.375	0.5	
3" O.D / 65	7.24	2.8500	3.000	0.3122	0.6252	0.020	0.0148	0.020	FM / UL / VDS
	184	72.26	76.1	7.93	15.88	0.5	0.375	0.5	
3" / 80	7.76	3.3441	3.500	0.3122	0.6252	0.020	0.0148	0.020	FM / UL / VDS
	197	84.94	88.9	7.93	15.88	0.5	0.375	0.5	
4" / 100	8.27	4.3339	4.500	0.3752	0.6252	0.020	0.020	0.020	FM / UL / VDS
	210	110.08	114.3	9.53	15.88	0.5	0.5	0.5	
5½" O.D / 125	9.76	5.3339	5.500	0.3752	0.6252	0.020	0.020	0.020	FM / UL / VDS
	248	135.48	139.7	9.53	15.88	0.5	0.5	0.5	
6" / 150	12.76	6.4552	6.625	0.3752	0.6252	0.020	0.020	0.020	FM / UL / VDS
	324	163.96	168.3	9.53	15.88	0.5	0.5	0.5	
8" / 200	14.61	8.4409	8.625	0.4370	0.7500	0.020	0.020	0.020	FM / UL / VDS
	371	214.40	219.1	11.10	19.05	0.5	0.5	0.5	
10" / 250	18.00	10.5622	10.750	0.5000	0.7500	0.020	0.020	0.020	FM / UL / VDS
	457	268.28	273.0	12.70	19.05	0.5	0.5	0.5	
12" / 300	21.06	12.5311	12.750	0.5000	0.7500	0.020	0.020	0.020	FM / UL / VDS
	535	318.29	323.9	12.70	19.05	0.5	0.5	0.5	

VALVES / Style 900S

GROOVED RESILIENT NRS GATE VALVE

Specifications:

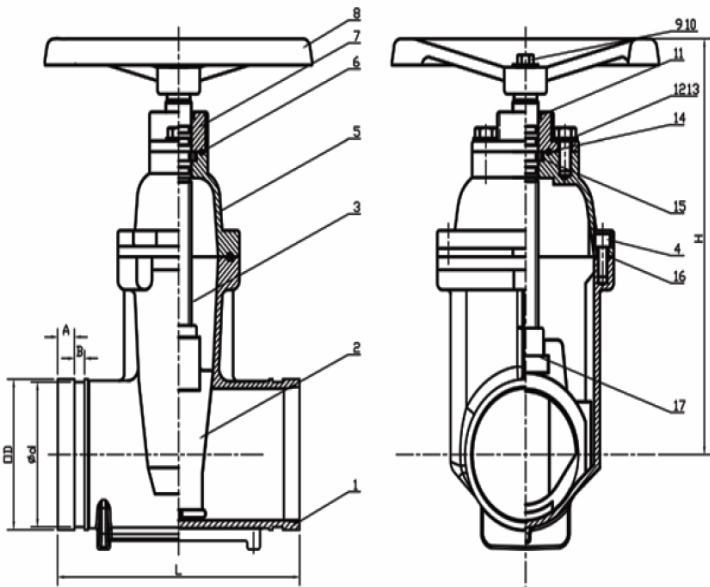
Size: DN50(2") - DN300(12")

Working Pressure: 145/232 psi or PN10/16

Working Temperature: 32°-212 °F / 0° - 100° °C

Material

- 1. Body: ASTM A536 65-45-12
 - 2. Disc: ASTM A536 65-45-12 + EPDM
 - 3. Stem: SS420
 - 4. Hex nut: Carbon Steel Zinc Plated
 - 5. bonnet: ASTM A536 65-45-12
 - 6. O-ring: NBR/EPDM
 - 7. Gland: ASTM A536 65-45-12
 - 8. Handwheel: ASTM A536 65-45-12
 - 9. Bolt: Carbon Steel Zinc Plated
 - 10. Hand Washer: Carbon Steel Zinc Plated
 - 11. Ring Wiper: NBR/EPDM
 - 12. O-ring: NBR/EPDM
 - 13. Nut: Carbon Steel Zinc Plated
 - 14. Axis guide: Brass HPb59-1
 - 15. Washer: Brass HPb59-1
 - 16. Nut: Carbon Steel Zinc Plated
 - 17. Wedge nut: Brass HPb59-1
- Coating: Fusion bonded Epoxy coating



Nominal Size (Inch / DN)	Dimensions (Inch / mm)						Approvals
	OD	d	L	H	A	B	
2" / 50	2.375	2.2500	7.00	8.58	0.6252	0.3118	FM / UL / VDS
	60.3	57.15	178	218	15.88	7.92	
3" O.D / 65	3.000	2.8500	7.48	9.06	0.6252	0.3118	FM / UL / VDS
	76.1	72.26	178	230	15.88	7.92	
3" / 80	3.500	3.3441	7.99	11.06	0.6252	0.3118	FM / UL / VDS
	88.9	84.94	203	281	15.88	7.92	
4" / 100	4.500	4.3339	9.02	12.44	0.6252	0.3748	FM / UL / VDS
	114.3	110.08	229	316	15.88	9.52	
5½" O.D / 125	5.500	5.3339	10.00	15.47	0.6252	0.3748	FM / UL / VDS
	139.7	135.48	254	393	15.88	9.52	
6" / 150	6.625	6.4552	10.51	16.54	0.6252	0.3748	FM / UL / VDS
	168.3	163.96	267	420	15.88	9.52	
8" / 200	8.625	8.4409	11.50	19.29	0.7500	0.4382	FM / UL / VDS
	219.1	214.40	292	490	19.05	11.13	
10" / 250	10.750	10.5622	13.00	24.65	0.7500	0.5000	FM / UL / VDS
	273.0	268.28	330	626	19.05	12.70	
12" / 300	12.750	12.5311	14.02	28.43	0.7500	0.5000	FM / UL / VDS
	323.9	318.29	356	722	19.05	12.70	

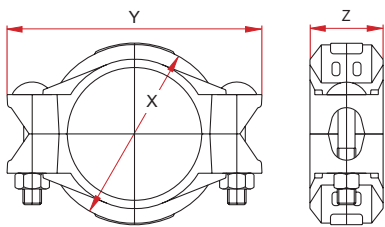
STAINLESS STEEL COUPLINGS / Style S2-75RT

STAINLESS STEEL RIGID COUPLING

The model S2-75RT stainless steel rigid coupling is designed for use with Sch5s to Sch40s or BS stainless steel pipe.

Grade CF-8M (316) stainless steel.

Designed to provide durable joint for grooved-end stainless steel piping systems in a variety of applications.



Dimensions / Größe / Afmetingen

Nominal Size (Inch / DN)	Pipe Outside Diameter (mm)	Coupling Dimensions			Bolts				Allowed Pipe End Separation mm §	Approx. Weight Kg.	Approvals
		X (mm)	Y (mm)	Z (mm)	No.	Size	x	Length (mm)			
3/4" / 20	26.9	46	94	44	2	M10	x	50	0 - 1.0	0.50	-
1" / 25	33.7	53	101	44	2	M10	x	50	0 - 1.0	0.60	-
1¼" / 32	42.4	62	109	44	2	M10	x	50	0 - 1.0	0.60	-
1½" / 40	48.2	68	114	44	2	M10	x	50	0 - 1.0	0.60	-
2" / 50	60.3	82	128	45	2	M10	x	50	0 - 1.0	0.70	-
2½" / 65	76.1	98	145	46	2	M10	x	50	0 - 1.0	0.90	-
3" / 80	88.9	112	161	47	2	M10	x	50	0 - 1.0	1.00	-
4" / 100	114.3	140	197	48	2	M12	x	70	0 - 1.0	1.60	-
5" / 125	139.7	168	226	49	2	M12	x	70	0 - 1.0	2.00	-
6" OD	165.1	194	254	49	2	M12	x	70	0 - 1.0	2.30	-
6" / 150	168.3	197	257	49	2	M12	x	70	0 - 1.0	2.30	-
8" / 200	219.1	254	323	59	2	M16	x	90	0 - 1.0	4.00	-
10" / 250	273.0	310	397	63	2	M20	x	100	0 - 1.0	6.10	-
12" / 300	323.9	363	451	63	2	M20	x	100	0 - 1.0	7.20	-

Performance Data / Leistungsdaten / Prestatiegegevens

Nominal Size (Inch / DN)	Pipe Outside Diameter (mm)	Sch. 40s (Roll or Cut Groove)		Sch. 10s (Roll Groove)		Sch. 5s (Roll Groove)	
		Max. Working Pressure	Max. End Load in kN	Max. Working Pressure	Max. End Load in kN	Max. Working Pressure	Max. End Load in kN
3/4" / 20	26.9	52 Bar	2.91	41 Bar	2.35	27 Bar	1.57
1" / 25	33.7	52 Bar	4.56	41 Bar	3.68	27 Bar	2.45
1¼" / 32	42.4	52 Bar	7.27	41 Bar	5.87	27 Bar	3.92
1½" / 40	48.2	52 Bar	9.53	41 Bar	7.70	27 Bar	5.13
2" / 50	60.3	52 Bar	14.85	41 Bar	11.99	27 Bar	8.00
2½" / 65	76.1	41 Bar	19.10	34 Bar	15.92	24 Bar	10.92
3" / 80	88.9	41 Bar	26.07	34 Bar	21.73	24 Bar	14.90
4" / 100	114.3	34 Bar	35.91	34 Bar	35.91	24 Bar	24.63
5" / 125	139.7	27 Bar	42.92	27 Bar	42.92	20 Bar	32.19
6" OD	165.1	27 Bar	59.94	27 Bar	59.94	20 Bar	44.96
6" / 150	168.3	27 Bar	62.29	27 Bar	62.29	20 Bar	46.72
8" / 200	219.1	20 Bar	79.18	20 Bar	79.18	14 Bar	52.78
10" / 250	273.0	20 Bar	122.92	20 Bar	122.92	14 Bar	81.95
12" / 300	323.9	20 Bar	173.03	20 Bar	173.03	14 Bar	115.36

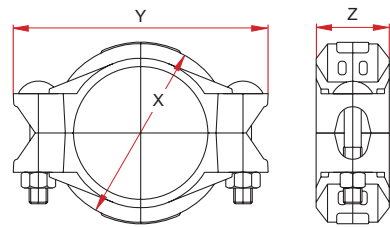
STAINLESS STEEL COUPLINGS / Style S2-75

STAINLESS STEEL FLEXIBLE COUPLING

The model S2-75 stainless steel flexible coupling is designed for use with Sch5s to Sch40s or BS stainless steel pipe.

Grade CF-8M (316) stainless steel.

Designed to provide durable joint for grooved-end stainless steel piping systems in a variety of applications.



Dimensions / Größe / Afmetingen

Nominal Size (Inch / DN)	Pipe Outside Diameter (mm)	Coupling Dimensions			Bolts				Allowed Pipe End Separation mm §	Approx. Weight Kg.
		X (mm)	Y (mm)	Z (mm)	No.	Size	x	Length (mm)		
3/4" / 20	26.9	48	94	44	2	M10	x	50	0 - 2.2	0.60
1" / 25	33.7	54	100	44	2	M10	x	50	0 - 2.2	0.60
1¼" / 32	42.4	62	108	44	2	M10	x	50	0 - 2.2	0.70
1½" / 40	48.2	68	114	44	2	M10	x	50	0 - 2.2	0.70
2" / 50	60.3	81	128	45	2	M10	x	50	0 - 2.2	0.80
2½" / 65	76.1	95	145	46	2	M10	x	50	0 - 2.2	1.10
3" / 80	88.9	111	161	47	2	M10	x	50	0 - 2.6	1.20
4" / 100	114.3	140	189	48	2	M12	x	70	0 - 2.6	1.80
5" / 125	139.7	167	227	49	2	M12	x	70	0 - 2.6	2.30
6" OD	165.1	194	254	49	2	M12	x	70	0 - 2.6	2.60
6" / 150	168.3	197	256	49	2	M12	x	70	0 - 2.6	2.60
8" / 200	219.1	254	322	59	2	M16	x	90	0 - 4.9	4.60
10" / 250	273.0	310	378	59	2	M20	x	100	0 - 4.9	6.40
12" / 300	323.9	363	430	59	2	M20	x	100	0 - 4.9	7.50

Performance Data / Leistungsdaten / Prestatiegegevens

Nominal Size (Inch / DN)	Pipe Outside Diameter (mm)	Sch. 40s (Roll or Cut Groove)		Sch. 10s (Roll Groove)		Sch. 5s (Roll Groove)	
		Max. Working Pressure	Max. End Load in kN	Max. Working Pressure	Max. End Load in kN	Max. Working Pressure	Max. End Load in kN
3/4" / 20	26.9	52 Bar	2.91	41 Bar	2.35	27 Bar	1.57
1" / 25	33.7	52 Bar	4.56	41 Bar	3.68	27 Bar	2.45
1¼" / 32	42.4	52 Bar	7.27	41 Bar	5.87	27 Bar	3.92
1½" / 40	48.2	52 Bar	9.53	41 Bar	7.70	27 Bar	5.13
2" / 50	60.3	52 Bar	14.85	41 Bar	11.99	27 Bar	8.00
2½" / 65	76.1	41 Bar	19.10	34 Bar	15.92	24 Bar	10.92
3" / 80	88.9	41 Bar	26.07	34 Bar	21.73	24 Bar	14.90
4" / 100	114.3	34 Bar	35.91	34 Bar	35.91	24 Bar	24.63
5" / 125	139.7	27 Bar	42.92	27 Bar	42.92	20 Bar	32.19
6" OD	165.1	27 Bar	59.94	27 Bar	59.94	20 Bar	44.96
6" / 150	168.3	27 Bar	62.29	27 Bar	62.29	20 Bar	46.72
8" / 200	219.1	20 Bar	79.18	20 Bar	79.18	14 Bar	52.78
10" / 250	273.0	20 Bar	122.92	20 Bar	122.92	14 Bar	81.95
12" / 300	323.9	20 Bar	173.03	20 Bar	173.03	14 Bar	115.36

STAINLESS STEEL FITTINGS/Style S2-64 - S2-65 - S2-66

STAINLESS STEEL FITTINGS

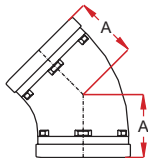
Quikcoup grooved end stainless steel fittings have been specially designed for flexible installation without need for further preparation in the field. All fittings feature ready-made grooves for quick, easy and flexible alignment.

Grade CF-8M (316) stainless steel.

Please refer to stainless steel couplings for maximum working pressure.

STYLE S2-64

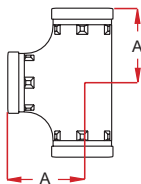
Elbow 45°



Nominal Size (Inch / DN)	Pipe Outside Diameter	Dimen- sion	Weight Kg	Approvals
		A		
1" / 25	33.7	44.0	0.20	-
1¼" / 32	42.4	44.0	0.30	-
1½" / 40	48.3	44.0	0.30	-
2" / 50	60.3	51.0	0.50	-
2½" / 65	76.1	57.0	0.70	-
3" / 80	88.9	64.0	0.90	-
4" / 100	114.3	76.0	1.40	-
5" / 125	139.7	83.0	2.00	-
6" OD	165.1	89.0	2.70	-
6" / 150	168.3	89.0	2.80	-
8" / 200	219.1	108.0	5.00	-
10" / 250	273.0	121.0	9.10	-
12" / 300	323.9	133.0	14.00	-

STYLE S2-65

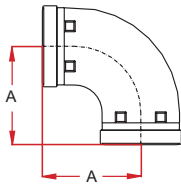
Equal Tee



Nominal Size (Inch / DN)	Pipe Outside Diameter	Dimen- sion	Weight Kg	Approvals
		A		
1" / 25	33.7	57.0	0.30	-
1¼" / 32	42.4	70.0	0.50	-
1½" / 40	48.3	70.0	0.60	-
2" / 50	60.3	70.0	0.80	-
2½" / 65	76.1	76.0	1.10	-
3" / 80	88.9	86.0	1.40	-
4" / 100	114.3	102.0	2.20	-
5" / 125	139.7	124.0	3.60	-
6" OD	165.1	140.0	4.80	-
6" / 150	168.3	140.0	4.90	-
8" / 200	219.1	173.0	9.80	-
10" / 250	273.0	229.0	20.0	-
12" / 300	323.9	254.0	30.0	-

STYLE S2-66

Elbow 90°



Nominal Size (Inch / DN)	Pipe Outside Diameter	Dimen- sion	Weight Kg	Approvals
		A		
1" / 25	33.7	57.0	0.20	-
1¼" / 32	42.4	70.0	0.40	-
1½" / 40	48.3	70.0	0.40	-
2" / 50	60.3	70.0	0.60	-
2½" / 65	76.1	76.0	0.80	-
3" / 80	88.9	86.0	1.00	-
4" / 100	114.3	102.0	1.60	-
5" / 125	139.7	124.0	2.70	-
6" OD	165.1	140.0	3.50	-
6" / 150	168.3	140.0	3.60	-
8" / 200	219.1	173.0	7.30	-
10" / 250	273.0	229.0	15.00	-
12" / 300	323.9	564.0	22.00	-

STAINLESS STEEL FITTINGS/Style S2-02

STAINLESS STEEL FITTINGS

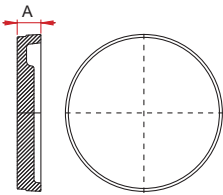
Quikcoup grooved end stainless steel fittings have been specially designed for flexible installation without need for further preparation in the field. All fittings feature ready-made grooves for quick, easy and flexible alignment.

Grade CF-8M (316) stainless steel.

Please refer to stainless steel couplings for maximum working pressure.

STYLE S2-02

End-Cap



Nominal Size (Inch / DN)	Pipe Outside Diameter	Dimen- sion	Weight Kg	Approvals
		A		
1" / 25	33.7	22.0	0.10	-
1¼" / 32	42.4	22.0	0.10	-
1½" / 40	48.3	22.0	0.10	-
2" / 50	60.3	22.0	0.20	-
2½" / 65	76.1	22.0	0.30	-
3" / 80	88.9	22.0	0.40	-
4" / 100	114.3	24.0	0.60	-
5" / 125	139.7	24.0	0.90	-
6" OD	165.1	24.0	1.10	-
6" / 150	168.3	24.0	1.20	-
8" / 200	219.1	29.0	2.50	-
10" / 250	273.0	29.0	4.30	-
12" / 300	323.9	29.0	6.40	-

INSTALLATION INSTRUCTIONS / 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 safety clothing.
- Always check rubber gaskets carefully for defaults, 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!

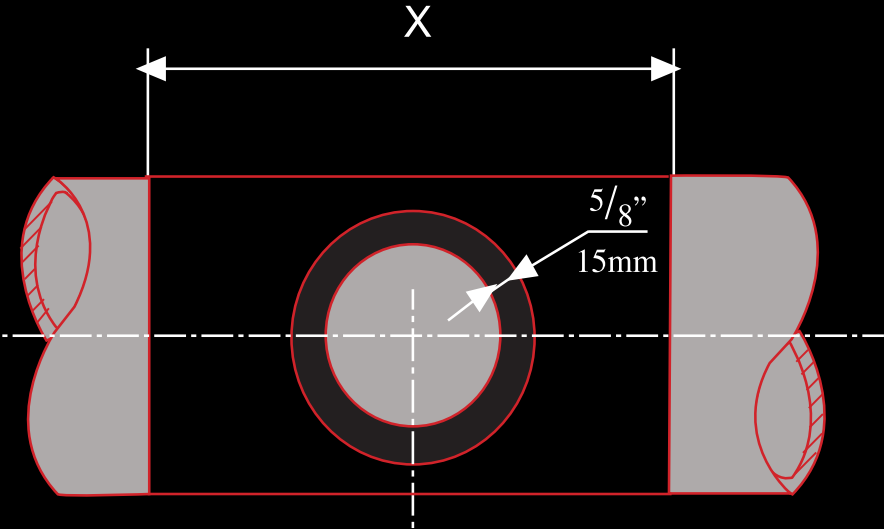
- Make sure gaskets are not pinched during installation. Pinched gaskets must be replaced immediately!
- Make sure oversized pipe or fittings were not used.
- Make sure the bolts have been tightened fully.
- Make sure coupling keys are engaged in the grooves. Coupling keys must not rest on the outside 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.

INSTALLATION INSTRUCTIONS /

Pipe preparation / Bolt torques

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 15mm 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*

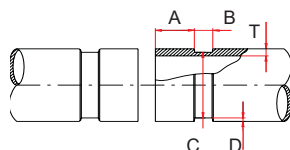
Boltsize Schraubgröße Bout grootte (DIN/ISO)	Bolt Torque Schraubendrehmomente Bout aandraaimoment (N·m)	Boltsize Schraubgröße Bout grootte (ASME)	Bolt Torque Schraubendrehmomente Bout aandraaimoment (ft·lb)
	Min. - Max.		Min. - Max.
M10 x 51mm	41 - 68	3/8 x 2	30 - 50
M10 x 57mm		3/8 x 2 1/4	
M10 x 60mm		3/8 x 2 3/8	
M12 x 76mm	90 - 110	1/2 x 3	66 - 81
M16 x 89mm	135 - 175	5/8 x 3 1/2	100 - 130
M20 x 120mm	200 - 270	3/4 x 4 3/4	148 - 199
M22 x 140mm	200 - 270	7/8 x 5 1/2	148 - 199
M22 x 181mm	270 - 340	7/8 x 7 1/8	199 - 250

- The table shows the recommended torque for each bolt size for all Quikcoup products mentioned in this catalogue.

* for style 001RT see recommended bolt torque on p.10 . for branch outlet, style 99 sprinkler ,see bolt recommended bolt torques on p. 40.

INSTALLATION INSTRUCTIONS / Standard Cut Groove Dimensions

Nominal Size (Inch / DN)	Pipe Outside Diameter			Gasket Seat A	Groove Width B	Groove Diameter C		Groove Depth D	Minimal Allowed Wall Thickness T (Inch / mm)
	Basic (Inch / mm)	Tolerance (Inch / mm)				Basic	Tol. +0.000 inch +0.00 mm		
1" / 25	1.315	+0.013	-0.013	0.625	0.313	1.190	-0.015	0.063	0.133
	33.7	+0.33	-0.33	15.88	7.95	30.23	-0.38	1.60	3.38
1¼" / 32	1.660	+0.016	-0.016	0.625	0.313	1.535	-0.015	0.063	0.140
	42.4	+0.41	-0.41	15.88	7.95	38.99	-0.38	1.60	3.56
1½" / 40	1.900	+0.019	-0.019	0.625	0.313	1.775	-0.015	0.063	0.145
	48.3	+0.48	-0.48	15.88	7.95	45.09	-0.38	1.60	3.68
2" / 50	2.375	+0.024	-0.024	0.625	0.313	2.250	-0.015	0.063	0.154
	60.3	+0.61	-0.61	15.88	7.95	57.15	-0.38	1.60	3.91
2½"	2.875	+0.029	-0.029	0.625	0.313	2.720	-0.018	0.078	0.188
	73.0	+0.74	-0.74	15.88	7.95	69.09	-0.46	1.98	4.78
3"O.D / 65	3.000	+0.030	-0.030	0.625	0.313	2.845	-0.018	0.078	0.188
	76.1	+0.76	-0.76	15.88	7.95	72.26	-0.46	1.98	4.78
3" / 80	3.500	+0.035	-0.031	0.625	0.313	3.344	-0.018	0.078	0.188
	88.9	+0.89	-0.79	15.88	7.95	84.94	-0.46	1.98	4.78
4¼"O.D	4.250	+0.041	-0.031	0.625	0.375	4.084	-0.020	0.083	0.213
	108.0	+1.04	-0.79	15.88	9.53	103.73	-0.51	2.11	5.40
4" / 100	4.500	+0.041	-0.031	0.625	0.375	4.334	-0.020	0.083	0.203
	114.3	+1.14	-0.79	15.88	9.53	110.08	-0.51	2.11	5.16
5¼"O.D	5.250	+0.052	-0.031	0.625	0.375	5.084	-0.020	0.083	0.213
	133.4	+1.32	-0.79	15.88	9.53	129.13	-0.51	2.11	5.40
5½"O.D / 125	5.500	+0.056	-0.031	0.625	0.375	5.334	-0.020	0.083	0.203
	139.7	+1.42	-0.79	15.88	9.53	135.48	-0.51	2.11	5.16
5"	5.563	+0.056	-0.031	0.625	0.375	5.395	-0.020	0.084	0.203
	141.3	+1.42	-0.79	15.88	9.53	137.03	-0.51	2.13	5.16
6¼" O.D	6.250	+0.063	-0.031	0.625	0.375	6.032	-0.022	0.085	0.220
	159.0	+1.60	-0.79	15.88	9.53	153.21	-0.56	2.16	5.60
6½" O.D	6.500	+0.063	-0.031	0.625	0.375	6.330	-0.022	0.085	0.219
	165.1	+1.60	-0.79	15.88	9.53	160.78	-0.56	2.16	5.56
6" / 150	6.625	+0.063	-0.031	0.625	0.375	6.455	-0.022	0.085	0.219
	168.3	+1.60	-0.79	15.88	9.53	163.96	-0.56	2.16	5.56
8" / 200	8.625	+0.063	-0.031	0.750	0.438	8.441	-0.025	0.092	0.238
	219.1	+1.60	-0.79	19.05	11.13	214.40	-0.64	2.34	6.05
10" / 250	10.750	+0.063	-0.031	0.750	0.500	10.562	-0.027	0.094	0.250
	273.0	+1.60	-0.79	19.05	12.70	268.28	-0.69	2.39	6.35
12" / 300	12.750	+0.063	-0.031	0.750	0.500	12.531	-0.030	0.109	0.279
	323.9	+1.60	-0.79	19.05	12.70	318.29	-0.76	2.77	7.09
14" / 350	14.000	+0.063	-0.031	0.937	0.500	13.781	-0.030	0.109	0.281
	355.6	+1.60	-0.79	23.83	12.70	350.04	-0.76	2.77	7.14
16" / 400	16.000	+0.063	-0.031	0.937	0.500	15.781	-0.030	0.109	0.312
	406.4	+1.60	-0.79	23.83	12.70	400.84	-0.76	2.77	7.92



INSTALLATION INSTRUCTIONS / Standard Cut Groove Dimensions

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 on pages 56-57.

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.

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

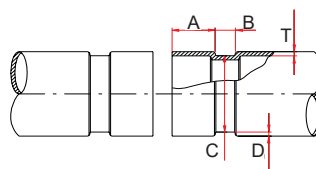
"D" Dimension -The "D" dimension is the nominal depth of the groove and is reference for a Trial Groove Only. This dimension must be altered if necessary to keep dimension "c" within stated tolerance. The Groove must Conform to the "C" dimension.

Column 7

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

INSTALLATION INSTRUCTIONS / Standard Roll Groove Dimensions

Nominal Size (Inch / DN)	Pipe Outside Diameter			Gasket Seat A	Groove Width B	Groove Diameter C		Groove Depth D	Minimal Allowed Wall Thickness T (Inch / mm)	maximum allowed flare diameter (Inch / mm)
	Basic (Inch / mm)	Tolerance (Inch / mm)		±0.76mm ±0.03 inch	±0.76mm ±0.03 inch	Basic (Inch / mm)	Tol. +0.000 inch +0.00mm	(Ref.) (Inch / mm)		
1" / 25	1.315	+0.013	-0.013	0.625	0.281	1.190	-0.015	0.063	0.065	1.429
	33.7	+0.33	-0.33	15.88	7.14	30.23	-0.38	1.60	1.65	36.30
1¼" / 32	1.660	+0.016	-0.016	0.625	0.281	1.535	-0.015	0.063	0.065	1.772
	42.4	+0.41	-0.41	15.88	7.14	38.99	-0.38	1.60	1.65	45.00
1½" / 40	1.900	+0.019	-0.019	0.625	0.281	1.775	-0.015	0.063	0.065	2.012
	48.3	+0.48	-0.48	15.88	7.14	45.09	-0.38	1.60	1.65	51.10
2" / 50	2.375	+0.024	-0.024	0.625	0.344	2.250	-0.015	0.063	0.065	2.480
	60.3	+0.61	-0.61	15.88	8.74	57.15	-0.38	1.60	1.65	63.00
2½"	2.875	+0.029	-0.029	0.625	0.344	2.720	-0.018	0.078	0.083	2.980
	73.0	+0.74	-0.74	15.88	8.74	69.09	-0.46	1.98	2.11	75.70
3" O.D / 65	3.000	+0.030	-0.030	0.625	0.344	2.845	-0.018	0.078	0.083	3.098
	76.1	+0.76	-0.76	15.88	8.74	72.26	-0.46	1.98	2.11	78.70
3" / 80	3.500	+0.035	-0.031	0.625	0.344	3.344	-0.018	0.078	0.083	3.598
	88.9	+0.89	-0.79	15.88	8.74	84.94	-0.46	1.98	2.11	91.40
4¼" O.D	4.250	+0.041	-0.031	0.625	0.344	4.084	-0.020	0.083	0.091	4.350
	108.0	+1.04	-0.79	15.88	8.74	103.73	-0.51	2.11	2.30	110.50
4" / 100	4.500	+0.041	-0.031	0.625	0.344	4.334	-0.020	0.083	0.083	4.598
	114.3	+1.14	-0.79	15.88	8.74	110.08	-0.51	2.11	2.11	116.80
5¼" O.D	5.250	+0.052	-0.031	0.625	0.344	5.084	-0.020	0.083	0.109	5.350
	133.4	+1.32	-0.79	15.88	8.74	129.13	-0.51	2.11	2.77	135.90
5½" O.D/125	5.500	+0.056	-0.031	0.625	0.344	5.334	-0.020	0.083	0.109	5.598
	139.7	+1.42	-0.79	15.88	8.74	135.48	-0.51	2.11	2.77	142.20
5"	5.563	+0.056	-0.031	0.625	0.344	5.395	-0.020	0.084	0.109	5.661
	141.3	+1.42	-0.79	15.88	8.74	137.03	-0.51	2.13	2.77	143.80
6¼" O.D	6.250	+0.063	-0.031	0.625	0.344	6.032	-0.030	0.085	0.109	6.350
	159.0	+1.60	-0.79	15.88	8.74	153.21	-0.76	2.16	2.77	161.30
6½" O.D	6.500	+0.063	-0.031	0.625	0.344	6.330	-0.022	0.085	0.109	6.598
	165.1	+1.60	-0.79	15.88	8.74	160.78	-0.56	2.16	2.77	167.60
6" / 150	6.625	+0.063	-0.031	0.625	0.344	6.455	-0.022	0.085	0.109	6.728
	168.3	+1.60	-0.79	15.88	8.74	163.96	-0.56	2.16	2.77	170.90
8" / 200	8.625	+0.063	-0.031	0.750	0.469	8.441	-0.025	0.092	0.109	8.799
	219.1	+1.60	-0.79	19.05	11.91	214.40	-0.64	2.34	2.77	223.50
10"/250	10.750	+0.063	-0.031	0.750	0.469	10.562	-0.027	0.094	0.134	10.921
	273.0	+1.60	-0.79	19.05	11.91	268.28	-0.69	2.39	3.40	277.40
12"/300	12.750	+0.063	-0.031	0.750	0.469	12.531	-0.030	0.109	0.156	12.921
	323.9	+1.60	-0.79	19.05	11.91	318.29	-0.76	2.77	3.96	328.20
14"/350	14.000	+0.063	-0.031	0.937	0.469	13.781	-0.030	0.109	0.156	14.098
	355.6	+1.60	-0.79	23.83	11.91	350.04	-0.76	2.77	3.96	358.10
16"/400	16.000	+0.063	-0.031	0.937	0.469	15.781	-0.030	0.109	0.165	16.098
	406.4	+1.60	-0.79	23.83	11.91	400.84	-0.76	2.77	4.19	408.90



INSTALLATION INSTRUCTIONS / Standard Roll Groove Dimensions

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 on pages 58-59.

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.

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.

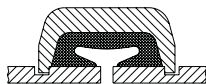
Unless otherwise noted, all gasket recommendations are based upon ambient working temperature service condition. For unusual or unspecified services, please contact Modgal Metal Ltd. for evaluation and recommendation.

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	EPDM 2764	White Stripe	For drinking water applications.

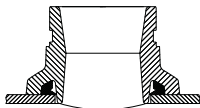
Air, Water and Petroleum Applications	
Applications	Recomended Gasket Grade
Air, oil-free, temp. -30°F to +230°F / -34°C to + 110°C	EP
Air, oil vapor, temp -20°F to + 180°F / -18°C to + 82°C	NT
Air (no oil vapors) -30°F to + 350°F / -34°C to + 177°C	L
Water, temp, upto + 150°F / + 66°C	EP/NT
Water, temp,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

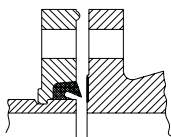
QUIKCOUP offers a variety of gaskets types for a wide range of applications and services. Each gasket type serves a specific application. The sealing effect is enhanced by pressure or vacuum in the line.



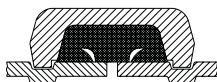
Standard



Quik-T for style 08, 88

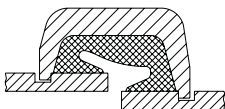


Style 90

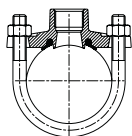


Flush Seal

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.

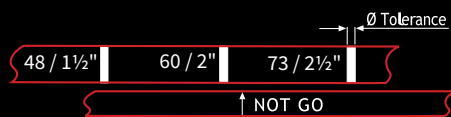
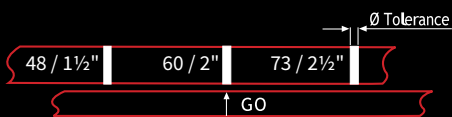
Chemical Application	Gasket Grade	Chemical Application	Gasket Grade	Chemical Application	Gasket Grade	Chemical Application	Gasket Grade	Chemical Application	Gasket Grade
acetic acid 50%	EP	calcium liquors	EP	fluoroboric acid	EP	nickel nitrate	EP	sodium silicate	EP
acetone	EP	cane sugar liquors	NT	fluorosilicic 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
acethylene	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
ammonuim 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	copprr 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	cyclohexanol	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	naptha 71° c max	L	sodium nitrate	EP		
calcium sulfate	EP	ferrous chloride	EP	napthalene 80° c	L	sodium peroxide	EP		
calcium sulfide	EP	fish oils	NT	nickel chloride	EP	sodium phosphate	EP		

INSTALLATION INSTRUCTIONS /

Pipe preparation - Check grooves and gasket seat width

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).
- Pull out enough band from the meter to create a ring of a diameter similar to that of the pipe being checked.
 - Place the band into the groove and firmly pull the band on each end.
 - 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 (Inch / DN) in compliance with Quikcoup Roll Groove engineering data (listed on page 33).
- Select one of the blades that is suitable to the pipe diameter you intend to check.
 - Hold the gauge so that lettering "Go" is faced toward you.
 - Position the gauge over the groove and gasket seat. The gauge should fit in and clamp the gasket seat (see figure No. 1).
 - Turn the blade so that the letting "Not Go" is faced towards you.
 - 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).

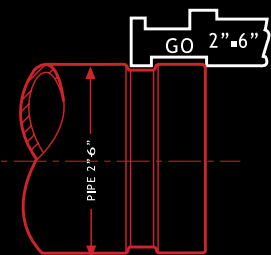


Fig. 1

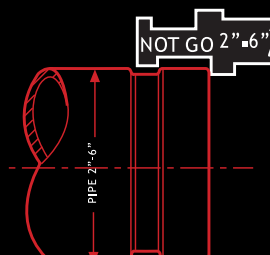
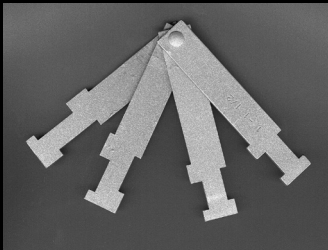


Fig. 2



INSTALLATION INSTRUCTIONS / Quikcoup Lubricant for gaskets

Quikcoup Lubricant

- Lubricant Type 27-XL, Water Dispersible
- Quikcoup Lubricant type 27-XL must always be used for proper coupling installation. The lubricant prevents the gasket from being pinched during coupling assembly, which will result to leakages.
- Suitable for most types of pipelines, including portable water pipelines.
- Will not impart taste, color or odor to water in pipelines flushed in accordance with recommended AWWA procedures.
- Contains no petroleum.
- Will not support bacteria.
- Will not deteriorate natural or synthetic rubber, or plastic gaskets.
- Stable from 32°F - 219°F / 0°C - 104°C
- Not toxic.
- No objectionable odor.

For dry pipe and freezer applications, use a petroleum-free silicon based lubricant.

Use instructions

1. Clean all dirt, burrs or foreign matter from joint surface.
2. Apply an even coating of lubricant to gasket lips, gasket exterior and/or housing interiors
3. Assemble the joint according to Quikcoup assembly instructions.

Quikcoup Lubricant type 27-XL contains: Potassium Oleate, Diethylene, Glycol and Mica.

Petroleum based lubricant must not be used on gasket grade EA or EP.

INSTALLATION INSTRUCTIONS /

Assembly Style 007 / 007RT One Bolt Coupling



- Check the pipes ends. The groove must be of uniform depth and its dimensions conform to Quikcoup specifications. Both pipes end 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. 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 couplings 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.

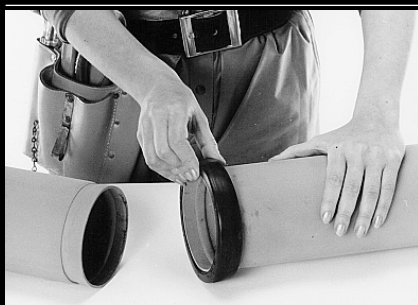
INSTALLATION INSTRUCTIONS /

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



- Check the pipes ends. The groove must be of uniform depth and its dimensions conform to Quikcoup specifications. Both pipes end should be free of indentations, 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.)

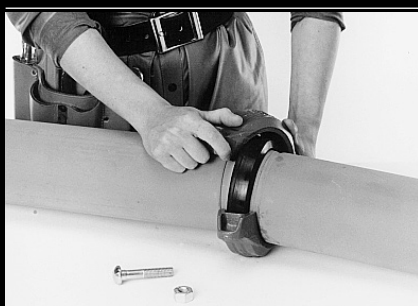
- Slip gasket on pipe, ensuring that it does not protrude over the end of the pipe.



- 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.



- Put the coupling halves over the gasket so that couplings keys (tenons) make good contact in the grooves.

- Insert the bolts into their holes and turn nuts until finger-tight.

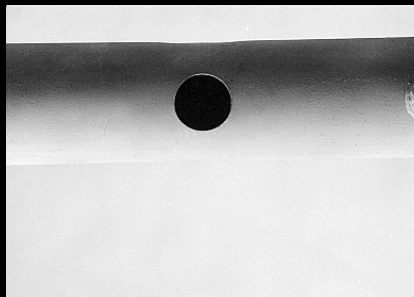


- Tighten the nuts alternately and equally bringing coupling halves together (metal to metal*), then apply specified torque to ensure proper contact between coupling halves. Important: Make sure that the coupling halves make good contact in the groove.

- For style 75RT and S2-75RT couplings, an intended gap of up to 0.078" is permitted at each pad to allow for positive rigid gripping onto the pipe..

INSTALLATION INSTRUCTIONS /

Assembly Style 08 Quik-T™



- Check the pipe surface. The hole must be cut or drilled on centerline of pipe and in dimensions conform Quikcouple specifications. (pages 20-22)
- The area within 15mm of hole must be clean and perfectly smooth to ensure sealing. A band of 26mm from each side of the hole must be free of dirt and rust projections to ensure tight sealing around the pipe.



- 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 QUICKCOUP 27-XL lubricant all surfaces of the gasket. CAUTION: Guard lubricant surfaces against dirt setting on them.
- Re-insert gasket into casing using the alignment 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.

INSTALLATION INSTRUCTIONS /

Assembly Style 99 Quiklet™



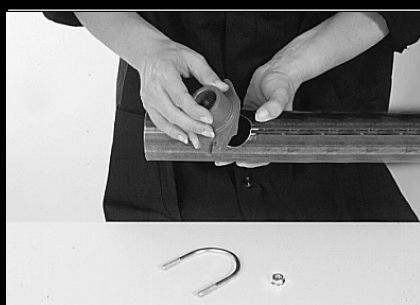
- Check the pipe surface. The hole must be cut or drilled on centerline of pipe and in dimensions conform Quikcoup specifications. (page 23)

- The area within 15mm of hole must be clean and perfectly smooth to ensure sealing. A band of 26mm from each side of the hole must be free of dirt and rust projections to ensure tight sealing around the pipe.



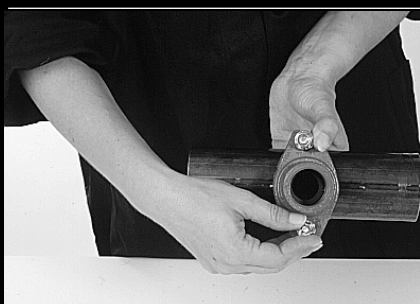
- Remove one nut in order to remove the U-bolt from the Quiklet™ in order to place it on the pipe.

- 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 applications, use a petroleum-free silicon based lubricant.

- Re-insert gasket into casing using the alignment 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. 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.

INSTALLATION INSTRUCTIONS /

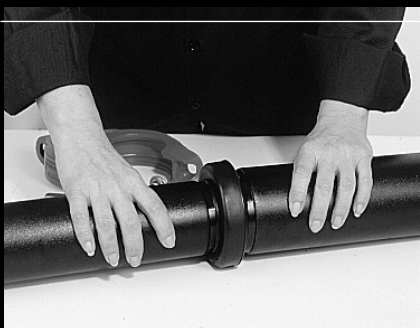
Assembly Style 71 Reducing Coupling



- Check the pipes ends. The groove must be of uniform depth and its dimensions conform to Quikcouple specifications. Both pipes end should be free of indentations, 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 couplings 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.

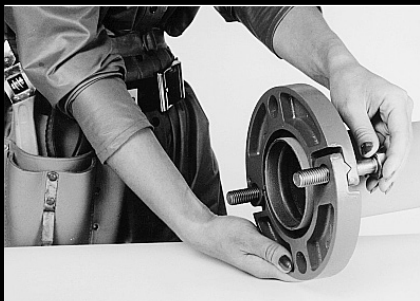
Important: Make sure that the coupling halves make good contact in the grooves.

INSTALLATION INSTRUCTIONS /

Assembly Style 90 Quikflange™



- Check the pipes ends. The groove must be of uniform depth and its dimensions conform to Quikcouple specifications. The pipe end should be free of indentations, rust or roll marks from the end of pipe to the groove.
- 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.



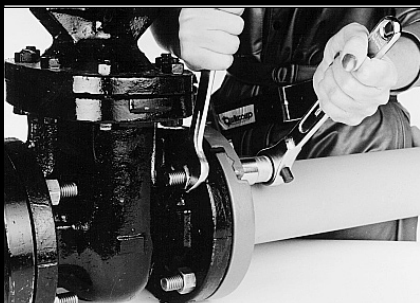
- Insert standard bolt through mating bolt holes opposite the hinge to ensure that the Quikflange™ rests firmly in the groove.



- Check the color code of gasket to make sure it is the correct type for service intended. Coat with a thin layer of Quikcouple 27-XL lubricant 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 additional Quikcouple 27-XL lubricant to the outer lip which seals the mating flange.



- Make sure the mating flange face is free of any indentation which may prevent a good sealing. Align the Quikflange™ bolt throughout the hole of the mating flange. Handtighten the nut.
- Insert the next bolt opposite to the first, and add the remaining bolts in the same way. Make sure the gasket is properly positioned between the flanges. Tighten all nuts evenly with a minimum of 200Nm torque.

GENERAL DESIGN DATA /

Butterfly Valves Switch Wiring Diagram

SWITCH WIRING DIAGRAM

Switch scheme S-1 is for connection to the supervisory circuit or a UL Listed alarm control panel:

- Normally Open - Yellow
- Normally Closed - Red
- Common - White

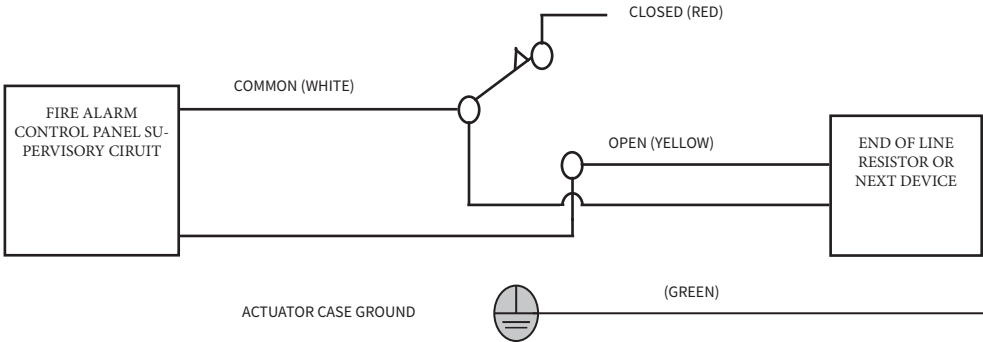
Switch scheme S-2 is for auxiliary switch which may be connected per authority having jurisdiction to auxiliary device:

- Normally Open - Blue
- Normally Closed - Orange
- Common - Black

Housing ground lead #14 AWG: Green

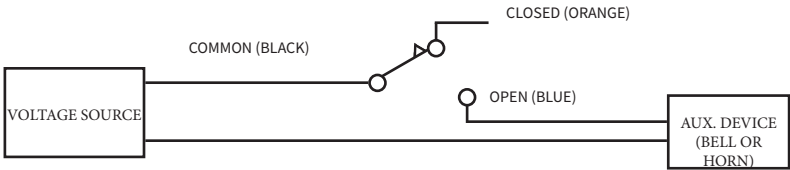
WIRING DIAGRAM S-1
ANSCHLUSSSCHEMA S-1

AANSLUITSCHEMA S-1



WIRING DIAGRAM S-2
ANSCHLUSSSCHEMA S-2

AANSLUITSCHEMA S-2



RATED:

5A = 1/6HP - 125/250V AC
or 0.5A - 125V DC
or 0.25A - 250V DC

GENERAL DESIGN DATA / Pipe Support

PIPE SUPPORT FLEXIBLE COUPLINGS

Piping systems require that the support system accommodate the weight of all system components among which pipe, couplings, fluids, etc. In addition, reducing stresses, accommodation for thermal expansion or contraction, seismic movement, building settlement and others must be considered.

The tables below provide guidelines for steel piping systems with the use of grooved couplings and fittings without concentrated loads between pipe supports.

WHERE LINEAR MOVEMENT IS NEEDED

For pipe runs where linear movement is provided by the flexible couplings, the table below depicts the number of needed pipe supports per length of pipe.

Nominal Size (Inch / DN)	Pipe length in meters Rohrlänge in Metern Buislengte in meters							
	3.3	3.7	4.6	6.7	7.6	9.1	10.7	12.2
Up to 2" / 50	2	2	2	3	4	4	5	6
2½" / 65 up to 4" / 100	1	2	2	2	2	3	4	4
5" / 125 up to 16" / 400	1	1	2	2	2	3	3	3

WITHOUT LINEAR MOVEMENT

For pipe runs where linear movement provided by the flexible couplings is not needed, the table below depicts the maximum distance between pipe supports.

Nominal Size (Inch / DN)	Pipe length in meters Rohrlänge in Metern Buislengte in meters
Up to 1½" / 40	3.7 mtr.
2" / 50 up to 8" / 200	4.6 mtr.
10" / 250 up to 12" / 300	4.9 mtr.
14" / 350 up to 16" / 400	5.5 mtr.

GENERAL DESIGN DATA / Pipe Support / Frictional resistance

Nominal Size (Inch / DN)	Water services (feet / meters)			Air services (feet / meters)		
	A	B	C	A	B	C
1¼" / 32	7	9	12	9	9	12
	2.1	2.7	3.7	2.7	2.7	3.7
1½" / 40	7	11	12	9	11	12
	2.1	3.4	3.7	2.7	3.4	3.7
2" / 50	10	13	15	13	15	15
	3.0	4.0	4.6	4.0	4.6	4.6
3" O.D. / 65	11	14	15	14	16	15
	3.4	4.3	4.6	4.3	4.9	4.6
3" / 80	12	15	15	15	17	15
	3.7	4.6	4.6	4.6	5.2	4.6
4" / 100	14	17	15	17	21	15
	4.3	5.2	4.6	5.2	6.4	4.6
5½" O.D. / 125	16	19	15	20	24	15
	4.9	5.8	4.6	6.1	7.3	4.6
6" / 150	17	20	15	21	25	15
	5.2	6.1	4.6	6.4	7.6	4.6
8" / 200	19	21	15	24	28	15
	5.8	6.4	4.6	7.3	8.5	4.6
10" / 250	19	21	15	24	31	15
	5.8	6.4	4.6	7.3	9.4	4.6
12" / 300	23	21	15	30	33	15
	7.0	6.4	4.6	9.1	10.1	4.6
14" / 350	23	21	15	30	33	15
	7.0	6.4	4.6	9.1	10.1	4.6
16" / 400	27	21	15	35	33	15
	8.2	6.4	4.6	10.7	10.1	4.6

- A. Spacing by ANSI B31.1 - Power piping code
B. Spacing by ANSI B39.1 - Building piping code
C. Spacing by NFPA 13 - Sprinkler systems code

FRICTIONAL RESISTANCE DATA

The chart below expresses the frictional resistance of Quikcoup Grooved End Fittings as equivalent meter of straight pipe.

Fittings that are not listed can be estimated 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 (Inch / 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	
		Mtr.	Mtr.	Mtr.	Mtr.	Main line	Branch line	Main line	Branch line
		Mtr.	Mtr.	Mtr.	Mtr.	Mtr.	Mtr.	Mtr.	Mtr.
1" / 25	33.7	-	-	0.6	0.5	0.5	1.3	0.5	1.3
1¼" / 32	42.4	0.4	0.4	0.8	0.7	0.7	1.7	0.8	1.8
1½" / 40	48.3	0.4	0.4	0.9	0.8	0.8	2.1	0.9	2.3
2" / 50	60.3	0.5	0.5	1.1	1.0	1.0	2.6	1.1	2.8
2½" OD	73.0	0.7	0.6	1.4	1.3	1.3	3.1	1.4	3.6
2½" / 65	76.1	0.7	0.7	1.4	1.3	1.3	3.8	1.4	3.6
3" / 80	88.9	0.8	0.8	1.8	1.6	1.6	3.8	1.8	4.1
4" OD	108.0	0.9	-	2.0	1.8	2.0	4.9	2.0	5.3
4" / 100	114.3	1.0	1.0	2.2	2.0	2.0	5.1	2.2	5.6
5" OD	133.0	1.3	1.1	2.7	2.5	2.5	6.1	2.7	7.0
5" / 125	139.7	1.3	1.3	2.7	2.5	2.5	8.4	2.7	7.0
6" OD	159.0	1.4	1.4	3.3	3.0	3.0	7.3	3.3	8.0
6" OD	165.1	1.5	1.0	3.3	3.0	3.0	7.5	3.3	8.2
6" / 150	168.3	1.5	1.5	3.3	3.1	3.1	7.7	3.3	8.4
8" / 200	219.1	2.0	2.0	4.5	4.1	4.1	10.1	4.5	11.1
10" / 250	273.0	2.5	-	-	5.1	5.1	12.8	-	-
12" / 300	323.9	2.9	-	-	6.1	6.1	14.9	-	-

GENERAL DESIGN DATA /

Vibration absorption - Oxygen diffusion

FLEXIBLE COUPLINGS CAN ACCOMODATE VIBRATION ABSORPTION

Vibration and noise in connected piping can be generated by equipment (e.g., pumps, chillers, etc.).

Any vibrating, reciprocating, or rotating equipment should be mounted such that it does not transmit significant levels of vibration into the surrounding or supporting structure. Hence, it is important to provide vibration isolation for all attachments to a vibrating machine, including structural mounts and the connections to piping.

Quikcoup flexible couplings can be used as a substitute for vibration compensators at device connections.

At least 3 pieces of Quikcoup style 75 or 007 flexible couplings should be installed consecutively at the source of vibration.

Ensure proper installation of the flexible couplings and follow the Quikcoup installation instructions. Contact your engineering department or contact Modgal for questions.

OXIGEN DIFFUSION IN HYDRONIC SYSTEMS

Oxygen in a heating system can cause corrosion of piping, pumps, boilers and other components. Oxygen diffusion is the ability of oxygen molecules to pass through a material due to the material's molecular structure and a difference in the partial pressure of oxygen on each side of the material. Diffusion does not depend on system pressure, but on the partial pressure of the oxygen molecules across the permeable membrane. So under the right conditions atmospheric oxygen can enter a piping system filled with pressurized water.

Metal pipes and the housing of couplings and fittings (i.e. carbon steel, stainless steel, copper, aluminium and ductile iron) are not permeable. Testing by Modgal with Quikcoup couplings with standard EPDM gaskets has shown that Quikcoup couplings demonstrate oxygen diffusion characteristics equivalent to other metallic systems (i.e. welded). Quikcoup couplings do not contribute to oxygen concentrations in hydronic heating systems.

QUIKCOUP / Grooved Pipes Connection System





REFERENCE PROJECTS

The photograph above shows the skyline of "De kop van Zuid" in the center of the city Rotterdam in the Netherlands. Four of the largest buildings were Quikcoup projects.

- "De Rotterdam": Finished in 2014 and with 160,000 m² one of the largest buildings in the Netherlands. Quikcoup grooved pipe connection system was used for HVAC systems.

- "De Maastoren": Finished end of 2009, 44-storey, with 165 m (541 ft) it is the tallest office skyscraper in the Netherlands and even Benelux. Quikcoup was used for sprinkler- and HVAC systems.

- "New Orleans": Finished in 2010, 43-storey, 158.3 m (519 ft) residential skyscraper. Quikcoup was used for sprinkler- and HVAC systems.

- "Montevideo": Finished in 2005, 43-storey, 139.5 m (458 ft) residential skyscraper. Quikcoup was used for sprinkler systems.

**MODGAL METAL (99) LTD.
WARRANTY FOR QUIKCOUP**

Modgal Metal (99) Ltd. ("Modgal") warrant 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.

THIS WARRANTY IS MADE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER AGREES THAT NO OTHER REMEDY, INCLUDING, BUT NOT LIMITED, TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES, SHALL BE AVAILABLE FOR HIM, REGARDLESS OF WHETHER MODGAL WAS INFORMED ON THE POSSIBILITY OF SUCH DAMAGES.

Modgal neither assumes nor authorizes any person to assume for it any liability in connection with the sale or use of such products, other than as specifically mentioned herein. As a pre-condition to receiving any remedy hereunder, buyer must take all reasonable actions to mitigate its claimed damages and cooperate with Modgal in order to enable Modgal to grant buyer the remedy hereunder, including visiting the sites where the claimed damaged product is installed.

Modgal Metal (99) Ltd. reserves the right to change product specifications without notice

QUIKCOUP

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Modgal Metal (99) Ltd.

Z.H.R. Industrial Zone

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