

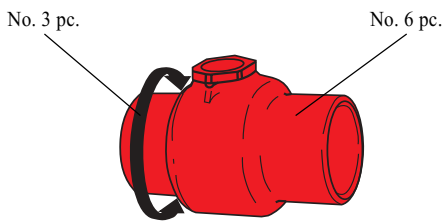
Chiksan Styles and Component Parts

Chiksan swivel joints are available from stock in eight basic styles or configurations. These styles permit 360-degree rotation and movement in one, two, or three planes. They can be combined in an unlimited variety of ways to suit practically any installation.

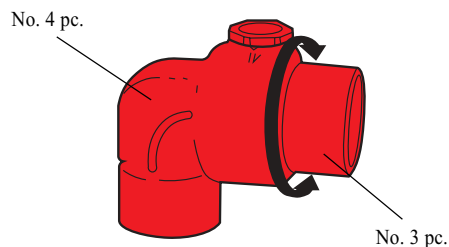
All Chiksan swivel joints are assembled using two or more standard pieces. Component piece numbers are shown here with the various Chiksan swivel joint styles.

NOTE: Although Chiksan swivel joints can be rotated while under fluid pressure, they are not recommended for services requiring continuous rotary motion.

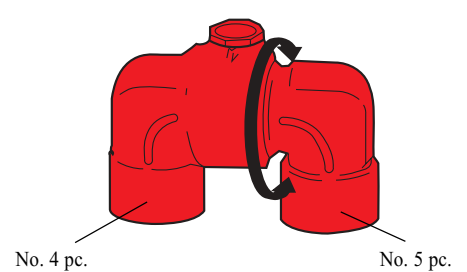
Low-Pressure Swivel Joints



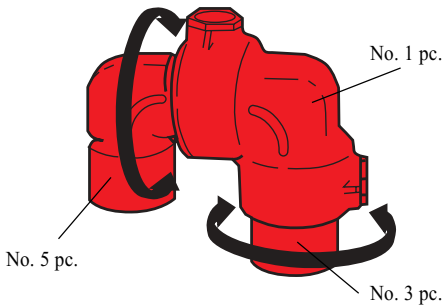
Style 20
Single swivel coupling



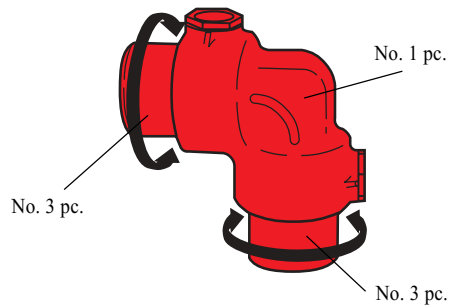
Style 30
Single swivel with one elbow



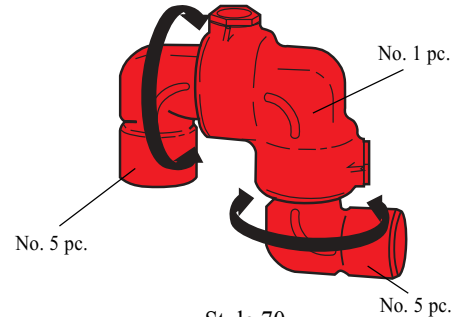
Style 40
Single swivel with two elbows



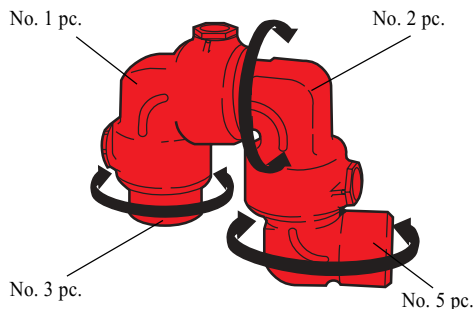
Style 50
Two swivels with two elbows



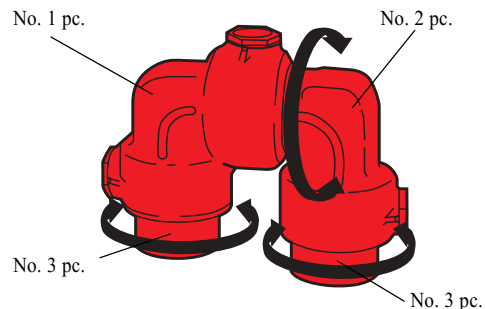
Style 60
Two swivels with one elbow



Style 70
Two swivels with three elbows



Style 80
Three swivels with three elbows



Style 10
Three swivels with two elbows

Chiksan Models	Color Code	Cold Working Pressure, psi	Material	End Connections	Sizes, in.												Notes		
					3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8		10	12
Low-Pressure Swivel Joints	Dark Green	175	Ductile Iron	Flanged									✓	✓					1,2,3
	Blue	275	Carbon Steel	Flanged							CF		✓	✓	CF	CF	CF	CF	1,3,4
	Dark Green	600	Ductile Iron	NPT			✓	✓	✓	✓	✓	✓	✓	✓					2,3
	Blue	1,000	Carbon Steel	NPT							✓		✓	✓					3
				Beveled for welding							✓		✓	✓	CF	CF	CF	CF	3,4,5
High-Pressure Swivel Joints	Olive Green (Sour Gas)	6,000	Carbon Steel	Weco figure 602 union							✓		✓						6
	Silver	6,000	Carbon Steel	Female line pipe threads	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					3,8
Extra High-Pressure Swivel Joints	Black	10,000	Carbon Steel	Female line pipe threads							✓								3,7
Longsweep® Swivel Joints	Olive Green (Sour Gas)	7,500	Alloy Steel	Weco figure 1002 union									✓						6
	Olive Green (Sour Gas)	10,000	Alloy Steel	Weco figure 1502 union				✓		✓	✓		✓	✓					6
	Olive Green (Sour Gas)	15,000	Alloy Steel	Weco figure 2202 union							✓		✓						6
	Black	10,000	Alloy Steel	Female line pipe threads				✓		✓	✓								7
	Red	15,000	Alloy Steel	Weco figure 1502 union				✓		✓	✓			✓					
	Light Blue	20,000	Alloy Steel	Weco figure 2002 union							✓			✓					
Longsweep TripleStep Swivel Joints	Red	15,000	Alloy Steel	Weco figure 1502 union									✓						

Notes

- All body materials meet ASTM or AISI standards.
 - Consult factory for special sizes, styles, end connections, or packing units.
1. Flanged ends faced and drilled to 150 lb flange specifications unless otherwise noted.
 2. Not available in Styles 80 or 10.
 3. 3/8- to 4-inch sizes furnished with nitrile packing and brass or stainless steel anti-extrusion ring.
 4. 6- to 12-inch sizes furnished with nitrile packing and stainless steel anti-extrusion ring.
 5. 2- and 3-inch sizes available in Styles 30 and 40. 6- to 12-inch sizes available in all Styles except Style 20.
 6. Furnished with fluoroelastomer packing and stainless steel anti-extrusion ring. FMC does not warrant the performance of any elastomer seal for sour gas service.
 7. Power make up must be used for line pipe threaded connections to achieve rated cold working pressure.
 8. 5-inch size available with threaded or beveled ends; limited to 3,000 psi cold working pressure.

Sour gas service

FMC manufactures Chiksan sour gas swivel joints in accordance with the National Association of Corrosion Engineers (NACE) Standard MR-01-75 and the American Petroleum Institute's (API) Standard RP-14-E. These swivel joints are specially heat-treated and inspected for controlled hardness. Because the specially heat-treated steel required for sour gas service does not provide a strong enough bearing surface, Chiksan sour gas swivel joints use patented snap-in ball races to assure extra strength and high load-bearing capacity. Elastomeric packing is used to isolate the races and bearings from line fluid.