



SWIVEL JOINT LATERAL CONNECTION



SWIVEL
JOINT

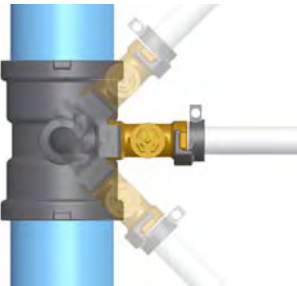
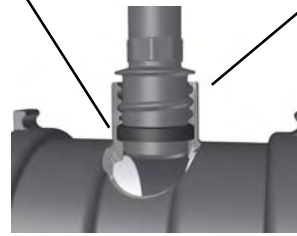


SWIVEL JOINT Lateral Connection System

Lateral to main connections are now quick, easy, and durable. HARCO ductile iron Lateral 90s, Lateral Nipples, Service Tees, and Saddles equipped with the Swivel Joint make for quick and problem free connections that are easy to seal and orient unlike conventional NPT pipe joints. Ductile Iron construction makes for long term reliability.

Proven HARCO Gasket Seal

Cast "Rope Thread" Connection

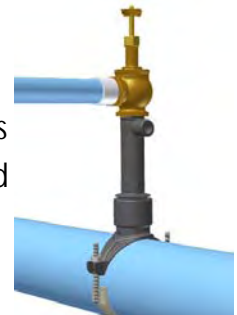


No tape or paste and true 360° of lateral orientation: Simply lube the gasket and spigot with ordinary pipe lube, thread the connection home, and then rotate the joint back to the desired lateral line direction. No risk or strain of over tightening a joint or risk of losing seal.

Universal mainline branch connection: Swivel Tees and Swivel Saddles are provided with a universal branch design serving all sizes of Lateral 90s and Lateral Nipples. No more ordering the wrong size branch outlet. The joint is based on the proven 2 1/2" joint used in HARCO ductile iron fittings. The flow way is maximized and transitions are tapered to smooth flow through the joint..

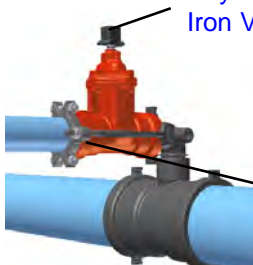


Use the isolation valve of your choice with the HARCO "open architecture". Swivel Joint Lateral 90s and Lateral Nipples are compatible with threaded or push-on valves that are proven and readily available.



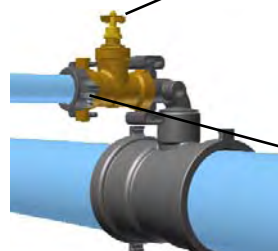
Eliminate NPT threads and glue joints with Swivel Joint systems for push-on valves. Outlets of valves are restrained to the pipe with mechanical joint restraint. For 2" lateral isolation valves used in "herringbone" irrigation layouts, HARCO worked with Buckner and Nibco (makers of popular brass angle and gate valves) to create push-on versions based on the HARCO gasketed bell.

Any Push-On Cast Iron Valve



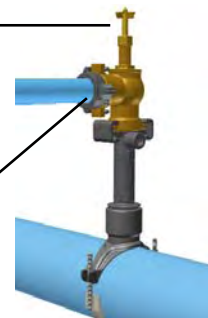
Conventional Joint Restraint

Nibco Push-On Bronze Gate Valve, 2"



HARCO Knuckle Joint Restraint

Buckner Push-On Bronze Angle Valve, 2"




Different riser elevations are served with Lateral 90s and Lateral Nipples of various lengths. For special situations Swivel Extensions are available that provide height adjustments in 6" increments.


Side Outlet Taps are available for all Lateral 90s and Lateral Nipples to serve swing joints with quick coupler valves. Acme and NPT thread outlets can be ordered.

No extra pieces: With the Swivel Joint there is no need for "collar style clamps" that must be bolted together. There are no restraint links requiring screws to attach to valves. There are no "clips" required to permit 360° of rotation or to hold the valve in place. Joint restraint for 2" valves require only one clamp bolt to actuate.


Many sizes and modular configurations: Swivel fittings come in many configurations and sizes. They are compatible with all HARCO push-on fittings. By linking together different combinations you can serve just about any piping situation.


Representative configurations are shown below. See Price List for others.


	SWIVEL TEE	
	SIZE	PART NUMBER
	2	8015405
	2 ½	8025405
	3	8035405
	4	8045405
	6	8065405
	8	8085405
	10	8105405
	12	8125405
	14	8145405
	16	8165405


	SWIVEL SADDLE	
	MAIN DIAMETER	PART NUMBER
	3	80381
	4	80481
	6	80681
	8	80881
	10	81081
	12	81281

Call for 14" and 16"

	LATERAL 90° – MALE NPT x MALE SWIVEL		
	SIZE x RISE	RISE TO VALVE HANDLE	PART NUMBER
	1½ x 6	11½	80086
	2 x 6	12½	80186
	2 x 12	18½	8018612
	2½ x 6	15	80286
	3 x 7	16½	80386


	LATERAL NIPPLE – MALE NPT x MALE SWIVEL		
	SIZE x RISE	RISE TO VALVE HANDLE	PART NUMBER
	2 x 8	15	8720808
	2 x 12	18½	8721208
	2 x 14	21	8721408
	2 x 18	24½	8721808
	2½ x 8	16	8720810
	3 x 10	18	8721012

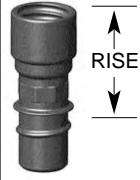
	LATERAL 90° – SPIGOT x MALE SWIVEL		
	SIZE x RISE	RISE TO VALVE HANDLE	PART NUMBER
	2 x 6	12½	8018506
	2 x 12	18½	8018512
	2½ x 6	15	8028506
	3 x 7	16½	8038507


	LATERAL NIPPLE – SPIGOT x MALE SWIVEL		
	SIZE x RISE	RISE TO VALVE HANDLE	PART NUMBER
	2 x 10	16½	8731008
	2 x 12	18½	8731208
	2 x 18	24½	8731808





SWIVEL JOINT Lateral Connection System

KNUCKLE RESTRAINT	
	
SIZE	PART NUMBER
1½	60-100-01
2	60-100-02
2½	60-100-25
3	60-100-03
4	60-100-04

	SWIVEL EXTENSION Male Swivel x Female Swivel	
	RISE	PART NUMBER
	6	87106
	12	87112
	24	87124

	SPIGOT x THREAD ADAPTER	
	SIZE	PART NUMBER
	1 ½ x 6	8740606
	2 x 4	8740408
	2 x 6	8740608
	2 x 8	8740808
	2 x 10	8741008
	2 x 12	8741208
	2 ½ x 6	8740610
3 x 6	8740612	

	WEDGE LINK	
	PART NUMBER	
	82008	

	ADAPTER 2" Female Swivel x Male NPT	
	SIZE	PART NUMBER
	2	873-008

Installation Instructions

1. See that gasket in female Swivel Joint is properly installed and that joint is free of debris.
2. See that spigot and thread of male Swivel Joint is smooth and free of debris.
3. Lubricate the gasket and the spigot with the lubricant supplied by the pipe manufacturer.
4. Insert male Swivel Joint into female Swivel Joint so that the threads are "started."
5. Rotate male thread "in" until joint "bottoms out."
6. Rotate male thread "out" to proper horizontal orientation up to and no more than 360°

Suggested Specifications

Fittings connecting mainlines to lateral lines shall be HARCO Ductile Iron Swivel Joint Fittings. The connection shall be sealed by a gasketed joint and separately restrained by means of a threaded connection. The connection shall permit 360° adjustment of the lateral line orientation while maintaining the joint seal. All fittings shall be Ductile Iron to ASTM A 536 and rated for 350 psi. Gaskets shall be SBR and meet ASTM F477. Fittings shall be as manufactured by The Harrington Corporation of Lynchburg, Virginia.



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PF1134-061907