WEIR SPM

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Solutions

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Long Radius Swivel Joints

Weir SPM offers a broad range of reliable swivel joints for various service applications. The 3" 1502 and 4" 1002 swivels feature new design enhancements creating a superior, more robust product when compared to previous models.

Weir SPM's Long Radius Swivel Joints are machined from solid forgings, creating a robust product that demonstrates durable service and uniform flow rates for superior performance in the field.

Weir SPM Long Radius Swivel Joints are manufactured from high quality alloy steel and are specially suited to handle a wide variety of oilfield fluids including cement, fracturing fluids, drill mud, crude oil, and most other abrasive well treating fluids and materials.

Featuring forged metal elbows and couplings integrated with heavy-duty ball bearings, the Weir SPM Long Radius Swivel Joint provides the necessary flexibility to allow high-pressure rigid piping assemblies to be used in most applications.

Available in 2", 3" and 4" sizes and rated to non-shock cold working pressures up to 15,000 psi, the Weir SPM Long Radius Swivel Joint provides the user with a reliable product suitable for various operation requirements.

All Weir SPM Long Radius Swivel Joints feature uniform wall thickness throughout for longer and more uniform flow of fluids (including slurries and abrasives), elastomeric packing for service to 225°F, instream packing that is designed not to enter the stream regardless of velocity, and improved lubrication.

Pressure Rating	Size					
	2″	2″ H2S	3″	3″ H2S	3″ x 2″	4″
Style 10 Fig. 1502 MxF	●	●	●	●		●
Style 10 Fig. 1502 MxM	●	●	●	●		●
Style 20 Fig. 1502 MxF	●		●	●		
Style 30 Fig. 1502 MxF	●		●	●		
Style 50 Fig. 1502 MxF	●	●	●	●	●	●
Style 60 Fig. 1502 MxF				●		
Style 80 Fig. 1502 MxF	●		●	●		
Style 10 Fig. 602 MxF						●
Style 10 Fig. 602 MxM						●
Style 50 Fig. 602 MxF						●
Style 100 Fig. 1502 MxF				●		
Style 100 Fig. 1502 MxM				●		
Style 10 Fig. 1002 MxF						●
Style 10 Fig. 1002 MxM						●
Style 50 Fig. 1002 MxF						●
Style 10 Threaded Swivel	●					
Style 20 Threaded Swivel	●					
Style 50 Threaded Swivel	●					

FEATURES:

a.) Uniform wall thickness throughout for a more uniform flow of fluid through the product.

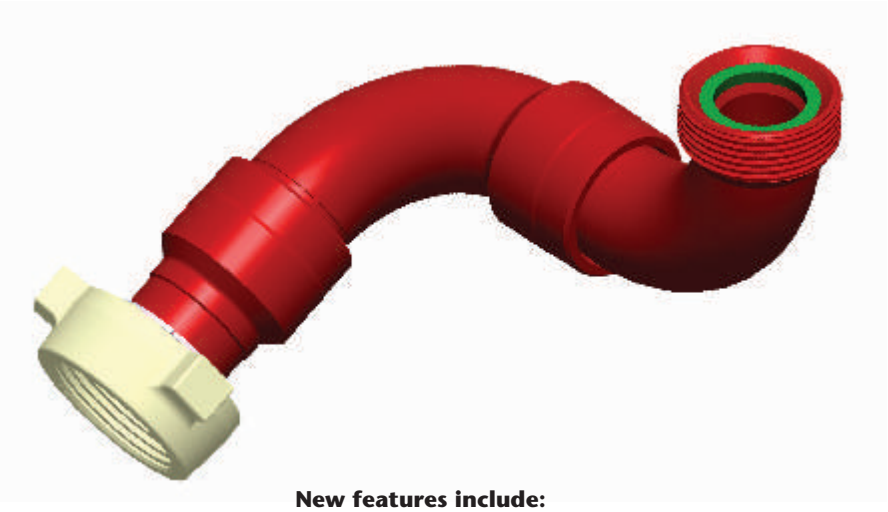
b.) Smooth round bore in straights and elbows, and long radii in elbows, reducing turbulence and pressure drop.

c.) Three-race ball bearing sets in all swivels. Balls are heavy-duty drill bit type, and races are case hardened steel for long life. Balls and races are sealed and isolated from both working medium and external ambient conditions.

d.) End connections available with Weir SPM Hammer Unions or in Safety Iron™ end connections.

3" Fig. 1502 & 4" Fig. 1002 Long Radius Swivel Joint Design Developments

Weir SPM's 3" Fig. 1502 and 4" Fig. 1002 Long Radius Swivel Joints have undergone a design enhancement, creating a superior and longer lasting product. New design features have created a swivel intended to exhibit longer life, while maintaining uniform flow, through the utilization of greater material in critical high stress points on the product.

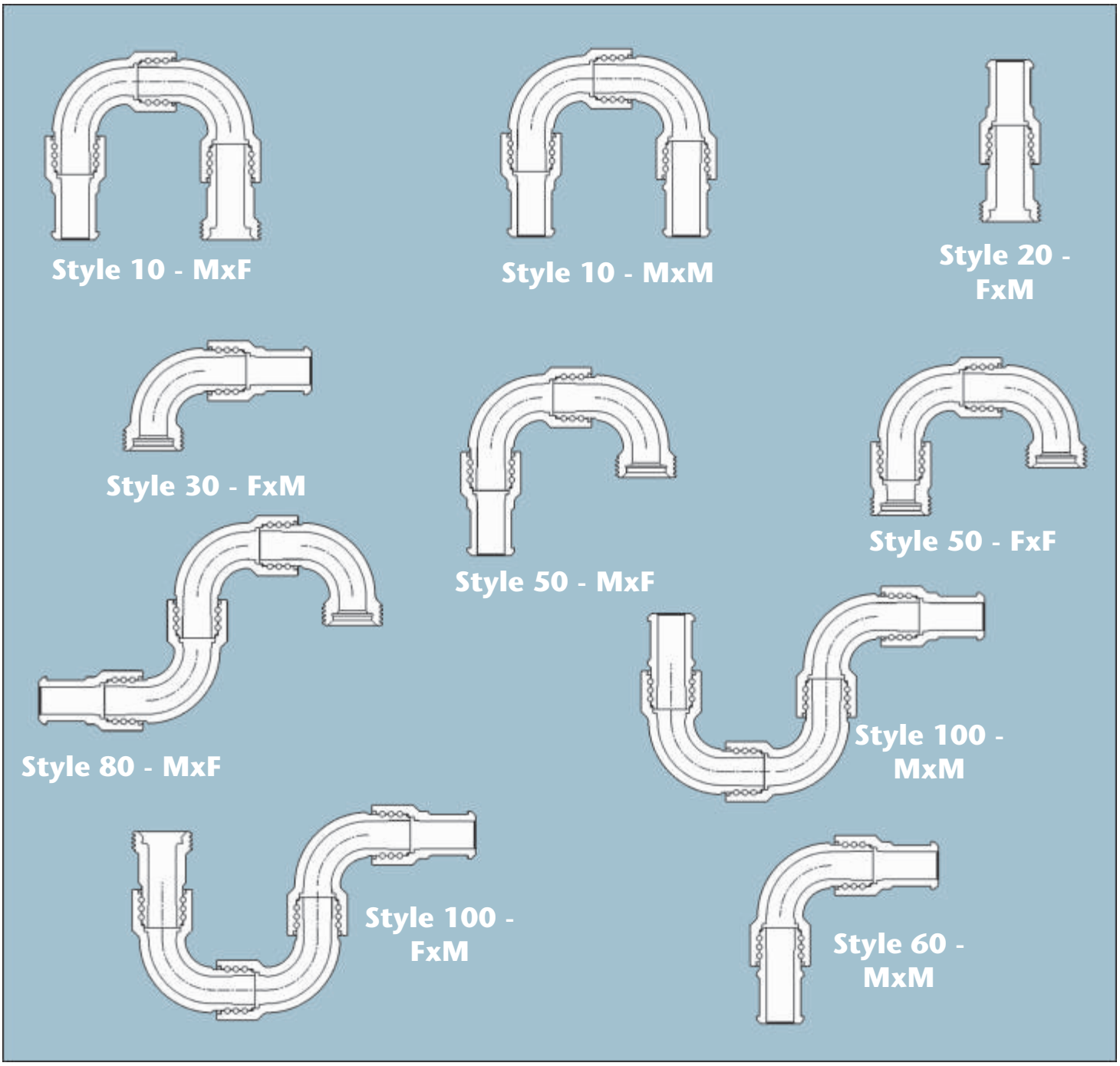


New features include:

- Additional erosion material under critical ball race locations:
  - ☐ 3" Fig. 1502 - over 13% more
  - ☐ 4" Fig. 1002 - over 22% more
- More stable assembly with better load distribution in 3" Fig. 1502 series, featuring longer ball race life.
- Better distribution of material for more robust female ball race components in 3" Fig. 1502 and 4" Fig. 1002 models.
- No danger for any mismatches.
- Available in traditional hammer union styles or Weir SPM Safety Iron™.

A raised hood near the ball inserts will distinguish the newly designed swivels from previous models.

Long Radius Swivel Style Reference Guide



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