



ST SERIES COUPLERS

STRAIGHT-THRU FOR FULL UNRESTRICTED FLOW

EXCELLENT FOR MAIN LINE CONNECTIONS ON MANIFOLDS, CHILLERS, MOLD TEMPS., ETC.

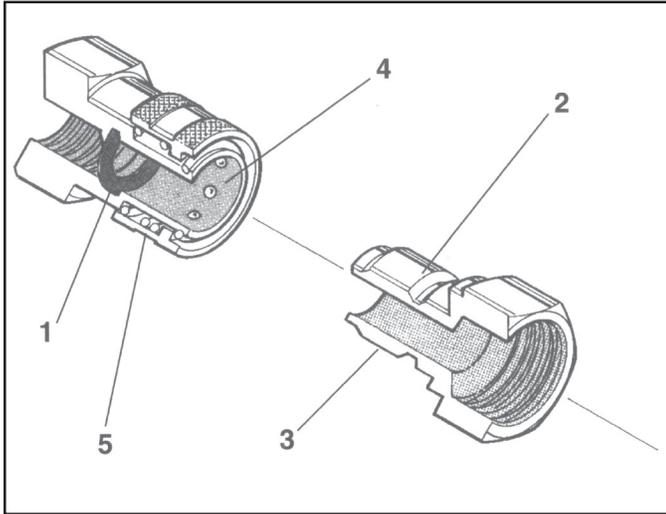
ISO 9001

MANUFACTURED IN A QUALITY SYSTEM CERTIFIED FACILITY.

PUSH TYPE AUTOMATIC INDUSTRIAL INTERCHANGE

FEATURES

1. The smooth, open bore with no valving in either half offers minimal pressure drop and allows easy cleaning in applications where the same lines are used for more than one media.
2. ST couplers and nipples are machined from solid barstock, providing a quality coupling that is durable. ST couplers are available in brass and 303 stainless steel as standard product materials.
3. ST nipples are available in 303 stainless steel, brass and zinc-plated steel. The ball locking grooves of the steel ST nipples are case hardened for resistance to brinelling where high cycle rates and pressure surges are encountered.
4. The ST is an "Interchange" coupling since it dimensionally and functionally interchanges with similar couplings made by other manufacturers



APPLICATIONS

ST Series is the ideal coupling where maximum flow is required in such applications as high pressure water and steam washers, carpet cleaners, mold coolant lines, etc. Their smooth open bore allows almost complete cleanability for applications such as food processing, fluid and dye transfer lines, etc.

OPTIONS

Seals- Standard seal material is Buna-N, but ethylene propylene, viton, or neoprene seals are available.

INTERCHANGEABILITY

ST Series couplings are known as "industrial interchange" couplings because they are dimensionally and operationally interchangeable with similar couplings manufactured by Hansen, Foster and others.

STEEL NIPPLES

Steel ST nipples are zinc plated and hardened for resistance to brinelling in applications where high cycle rates and pressure surges are encountered.

NPTF = DRYSEAL USA (AMERICAN) STANDARD PIPE THREAD VERSUS A STANDARD NPT THREAD HOW A LEAK FREE JOINT IS ACHIEVED

NPT threads, when assembled without a sealant, leave a spiral leak path at the crest-root junction. To seal pressurized fluid, NPT threads need a suitable sealer.

NPTF threads (Dryseal), on the other hand, when assembled, do not leave such spiral leak path. This is because they have controlled truncation at the crest and root, ensuring metal to metal crest-root contact prior to, or just as the male-female thread flanks make contact. Upon further tightening, the thread crests are flattened out until the flanks also make metal to metal contact. Thus, theoretically at least, there is no passage left for the fluid to leak, provided all surfaces are flawless and dimensions exact. In the real world, however, this is not the case and a sealant/lubricant is necessary to achieve a leak free joint even with NPTF threads. The sealant/lubricant fills all imperfections in the surfaces affecting the seal and provides lubrication to ease assembly and minimize galling.

SPECIFICATIONS

BODY SIZE	MINIMUM FLOW PASSAGE DIAM.	FLOW DATA		RATED PRESSURE WITH		STEEL NIPPLES
		PRESSURE DROP (PSI)	TEST FLOW (GPM)	BRASS NIPPLES	STAINLESS NIPPLES	
1/8	.172	11.6	4.0	2,500 PSI	4,200 PSI	2,600 PSI
1/4	.250	5.7	6.0	5,200	6,700	5,500
3/8	.375	1.8	10.0	2,700	5,500	3,500
1/2	.469	3.2	20.0	2,200	3,000	2,700
3/4	.719	1.3	35.0	1,700	1,700	1,700
1	.969	0.8	50.0	1,200	1,700	2,000
1 1/4	1.187	0.8	76.5	1,700	-	-
1 1/2	1.437	2.5	125.0	1,400	-	-

NOTE: These pressure ratings are based on the ability of the product to contain pressure. High cycling applications at or near rated pressure especially if swiveling is involved, will shorten the product's service life.



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