



Socket with valve Plug with valve



## Features

- ◆ New valve design, it can resist damage from high flow and the pressure of impulses that providing advanced performance.
- ◆ Sleeve locking mechanism is engaged by rotating sleeve after connection. It prevents accidental disconnection when the coupling is dragged along the ground.
- ◆ Sleeve mechanism is designed to help prevent dirt from entering the internal mechanism and thus causing faulty operation when connecting or disconnecting. The sleeve covers the retaining ring and also incorporates a dust seal in the spring area.
- ◆ Steel construction zinc plated with yellow chromate finish. hardened nipples and sleeves and solid bar stock construction for maximum resistance to damage from hydraulic and mechanical shock.
- ◆ This Anti-Blowout Nitrile/PTFE bonded seal is designed to prevent blow-out or damage during severe service conditions.
- ◆ Durable ball-locking mechanism assures reliable connections, every time. A large number of locking balls distributes the work load evenly while providing alignment and swiveling action to reduce hose torque and prolong hose life. CAUTION: These products are not to be used as swivels. Rotation under pressure will result in excessive and premature wear.
- ◆ LSQ-FF Series couplings employ flush valving when connecting or disconnecting. This means that the valves are mated together so that only small amounts of fluid can be lost during disconnection or air inclusion during reconnection.
- ◆ New chrome plating treatment provides advanced anti-rust performance.
- ◆ LSQ-FF series conforms to standard of ISO16028.
- ◆ Compatible with PARKER FE Series, FF Series, STUCCHIA8008 Series, AEROQUIP FD89 Series and HANSEN QA2900 Series.

## Applications

LSQ-FF Series couplings are widely used in the public utility market where hydraulic oil spillage can constitute a serious safety hazard, particularly in overhead bucket hoists that are used for maintenance of high-voltage power transmission lines. These couplings are also used for quick change of hydraulic Tools in construction, railway maintenance and mining industries. The ease of cleaning makes them ideal for use in these types of hostile environments.

## Specifications

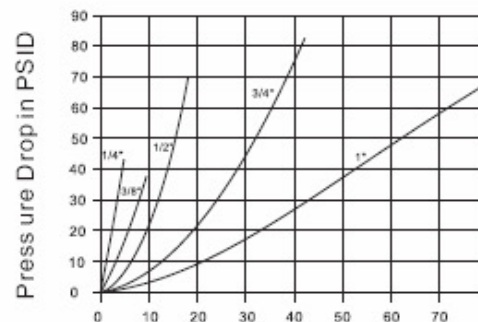
Body Size(in)	1/4	3/8	1/2	3/4	1
Rated Pressure(PSI)	5000	3000	3000	3000	3000
Rated Flow(GPM)	3	6	12	28	50
Temperature Range	-20°C to +100°C				
Spillage(ML) (max. per disconnect)	.015	.015	.020	.150	.200
Air Inclusion(ML) (max. per connect)	.020	.020	.070	.100	.150
Standard seal material is Nitrile					

## Performance

LSQ-FF Series

(1/4" , 3/8" , 1/2" , 3/4" , 1" )

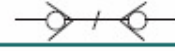
Test Fluid: Oil-200SUS



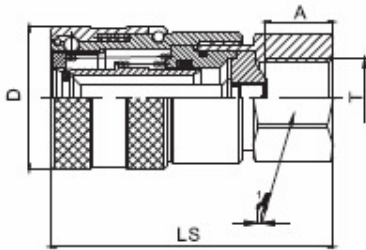
Flow in GPM

1 GPM=3.78 L/Min

1 PSID=0.0069 Mpa

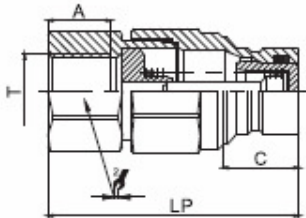


### Socket



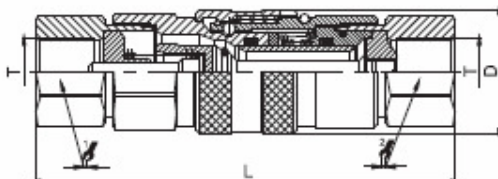
PART NO.	LS	D	$\frac{1}{2}$	A	T
LSQ-FF-02SF	49.2	$\phi 28$	20	14	G1/4 NPT1/4
LSQ-FF-03SF	68.4	$\phi 32$	24	14	G3/8 NPT3/8
LSQ-FF-04SF	75.2	$\phi 38$	32	18	G1/2 NPT1/2
LSQ-FF-06SF	80.2	$\phi 42$	36	22	G3/4 NPT3/4
LSQ-FF-08SF	99.9	$\phi 48$	41	23.5	G1 NPT1

### Plug



PART NO.	LP	C	$\frac{1}{2}$	A	T
LSQ-FF-02PF	49.2	15.2	20	14	G1/4 NPT1/4
LSQ-FF-03PF	55.6	19.5	24	14	G3/8 NPT3/8
LSQ-FF-04PF	71.5	21.6	32	18	G1/2 NPT1/2
LSQ-FF-06PF	75	21.6	36	22	G3/4 NPT3/4
LSQ-FF-08PF	93.8	29	41	23.5	G1 NPT1

### Coupling Fitting



PART NO.	L	D	$\frac{1}{2}$	$\frac{1}{2}$	T
LSQ-FF-02	96.3	$\phi 28$	20	20	G1/4 NPT1/4
LSQ-FF-03	108	$\phi 32$	24	24	G3/8 NPT3/8
LSQ-FF-04	129.2	$\phi 38$	32	32	G1/2 NPT1/2
LSQ-FF-06	137.7	$\phi 42$	36	36	G3/4 NPT3/4
LSQ-FF-08	171.7	$\phi 48$	41	41	G1 NPT1