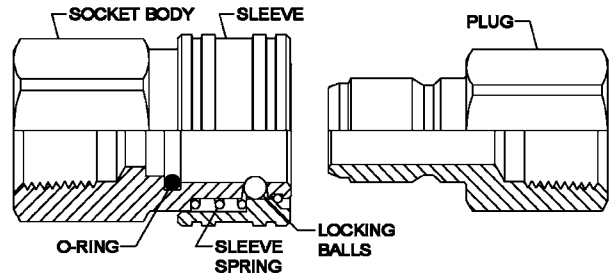


Series ST Straight-Through



Series ST straight-through couplings are designed for use where minimum pressure drop is required and valving is not needed. They are well suited for use on pressure wash, steam cleaning and carpet cleaning equipment, and many fluid transfer systems. Body sizes range from 1/8" to 2-1/2".

Features

- Ball lock
- Manual operation
- Smooth bore permits free flow of liquid or gas.
- Male and female NPTF, BSPP and hose stem connections

Standard Materials

- Brass or 303 stainless steel socket construction
- Stainless steel springs, balls and retaining rings
- Brass, zinc plated steel and 303 stainless steel plugs
- High impulse heat treated 416 stainless steel plugs available in 1/4" and 3/8" body sizes
- Buna-N (Nitrile) seals

Options

- Sleeve lock
- Seals: Teflon (1-ST through 8-ST), Neoprene, Viton, Buna-N and EPDM (See Elastomer Selection Guide, page 71)

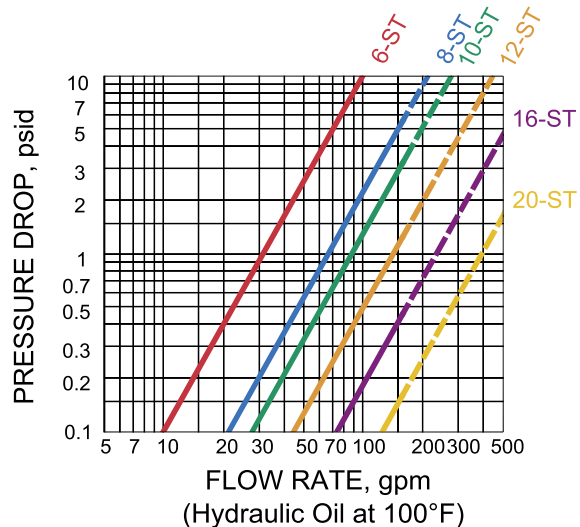
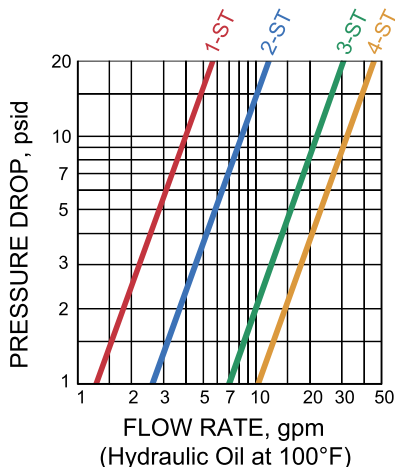
Accessories

- Dust caps and dust plugs for a limited number of sizes (See page 68)

*Rated Pressure

Series	Body Size	Brass Socket Brass Plug		Brass Socket Steel Plug		Stainless Steel Socket & Plug	
		PSI	BAR	PSI	BAR	PSI	BAR
1-ST	1/8"	2,800	193	3,400	234	4,200	290
2-ST	1/4"	5,200	359	5,500	379	7,500	517
3-ST	3/8"	2,800	193	4,200	290	6,300	434
4-ST	1/2"	2,200	152	3,500	241	3,600	248
6-ST	3/4"	1,700	117	2,100	145	3,000	207
8-ST	1"	1,300	90	2,000	138	2,000	138
10-ST	1 1/4"	1,700	117	2,700	186	2,200	152
12-ST	1 1/2"	1,400	97	2,200	152	2,500	172
16-ST	2"	1,400	97	2,200	152	1,500	103
20-ST	2 1/2"	900	62	1,500	103	-	-

* Pressure ratings are for sockets and plugs with threaded end connections. Pressure ratings of couplings with hose stems may be significantly lower, and will depend on the type of hose and the method of clamping. Refer to hose manufacturer's end connection pressure ratings. The best way to determine suitability for an application is to run pressure testing under controlled conditions.



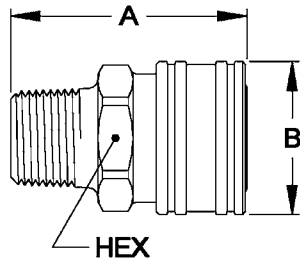
STRAIGHT-THROUGH



Series ST Straight-Through

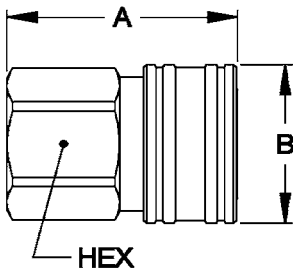
Sockets

Male End Connections



Body Size	Part Number		Thread Size		Dimensions		
	Brass	Stainless	NPTF	BSPF	A	B	Hex
1/8	1-S10	LL1-S10	1/8-27	—	1.06	0.69	0.50
1/8	1-S10BS	LL1-S10BS	—	1/8-28	1.00	0.69	0.56
1/4	2-S15	LL2-S15	1/4-18	—	1.72	0.94	0.81
1/4	2-S15BS	LL2-S15BS	—	1/4-19	1.56	0.94	0.81
3/8	3-S20	LL3-S20	3/8-18	—	1.75	1.13	1.00
3/8	3-S20BS	LL3-S20BS	—	3/8-19	1.62	1.13	1.00
1/2	4-S25	LL4-S25	1/2-14	—	2.03	1.31	1.13
1/2	4-S25BS	LL4-S25BS	—	1/2-14	1.80	1.31	1.13
3/4	6-S30	LL6-S30	3/4-14	—	2.22	1.69	1.44
3/4	6-S30BS	—	—	3/4-14	2.03	1.69	1.44
1	8-S35	—	1-11 ¹ / ₂	—	2.53	2.00	1.75
1	8-S35BS	—	—	1-11	2.37	2.00	1.75

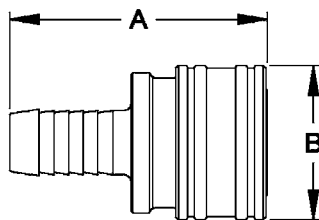
Female End Connections



Body Size	Part Number		Thread Size		Dimensions		
	Brass	Stainless	NPTF	BSPF	A	B	Hex
1/8	1-S11	LL1-S11	1/8-27	—	1.06	0.69	0.50
1/8	1-S11BS	LL1-S11BS	—	1/8-28	1.03	0.69	0.56
1/4	2-S16	LL2-S16	1/4-18	—	1.50	0.94	0.81
1/4	2-S16BS	LL2-S16BS	—	1/4-19	1.50	0.94	0.81
3/8	3-S21	LL3-S21	3/8-18	—	1.59	1.13	1.00
3/8	3-S21BS	LL3-S21BS	—	3/8-19	1.59	1.13	1.00
1/2	4-S26	LL4-S26	1/2-14	—	1.91	1.31	1.13
1/2	4-S26BS	LL4-S26BS	—	1/2-14	1.91	1.31	1.13
3/4	6-S31	LL6-S31	3/4-14	—	2.06	1.69	1.44
3/4	6-S31BS	LL6-S31BS	—	3/4-14	2.06	1.69	1.44
1	8-S36	LL8-S36	1-11 ¹ / ₂	—	2.31	2.00	1.75
1	8-S36BS	LL8-S36BS	—	1-11	2.33	2.00	1.75
1 ¹ / ₄	10-S41*	LL10-S41	1 ¹ / ₄ -11 ¹ / ₂	—	2.44	2.50	2.00
1 ¹ / ₄	10-S41BS*	—	—	1 ¹ / ₄ -11	2.51	2.50	2.00
1 ¹ / ₂	12-S46*	LL12-S46	1 ¹ / ₂ -11 ¹ / ₂	—	2.88	3.13	2.63
1 ¹ / ₂	12-S46BS*	LL12-S46BS	—	1 ¹ / ₂ -11	2.88	3.13	2.63
2	16-S51*	LL16-S51	2-11 ¹ / ₂	—	3.09	3.75	3.00
2	16-S51BS*	LL16-S51BS	—	2-11	3.30	3.75	3.00
2 ¹ / ₂	20-S56*	—	2 ¹ / ₂ -8	—	3.44	4.50	3.50

* With Steel Sleeve

Hose Stem Connections

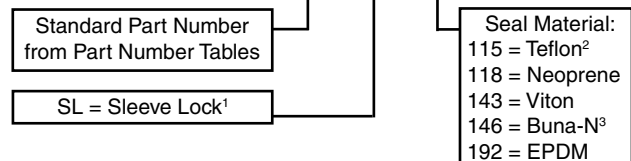


Body Size	Part Number		Hose I.D.	Dimensions	
	Brass	Stainless		A	B
1/8	1-S12	LL1-S12	3/16"	1.41	0.69
1/8	1-S17	LL1-S17	1/4"	1.41	0.69
1/4	2-S17	LL2-S17	1/4"	2.10	0.94
3/8	3-S22	LL3-S22	3/8"	2.09	1.13
1/2	4-S27	LL4-S27	1/2"	2.19	1.31
3/4	6-S32	LL6-S32	3/4"	3.19	1.69
1	8-S37	LL8-S37	1"	3.32	2.00

How to build a socket part number with options:

- Notes:
- 1) The Sleeve Lock device prevents accidental disconnection.
 - 2) Series ST couplings are designed for use with elastomer seals. Teflon is not an elastomer. It is rigid and not resilient. Couplings with Teflon seals may leak and/or be difficult to connect. Force to connect may be reduced by heating connected couplings in hot water; then, cooling before disconnecting. Teflon seals are available for Series 1-ST through 8-ST.
 - 3) The 146 seal option may be specified for fuels and hydraulic fluids that cause standard Buna-N seals to swell excessively.
 - 4) Some part numbers may be subject to minimum order quantities.
 - 5) Some options may be available only by special quotation. Consult your Hansen distributor.

Example: 3-S21 - SL - 143



Seal Material:
 115 = Teflon²
 118 = Neoprene
 143 = Viton
 146 = Buna-N³
 192 = EPDM

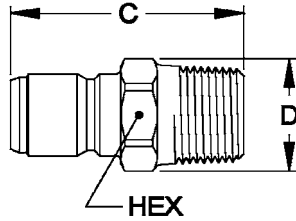
All dimensions in inches.

Series ST Straight-Through



Plugs

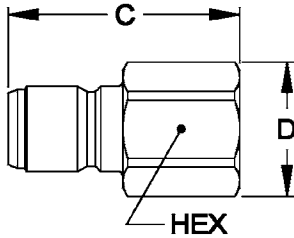
Male End Connections



Body Size	Part Number			Thread Size		Dimensions		
	Brass	Steel	Stainless	NPTF	BSPF	C	D	Hex
1/8	B1-T10	1-T10	LL1-T10	1/8-27	—	1.09	0.51	0.44
1/8	B1-T10BS	—	—	—	1/8-28	0.89	0.65	0.56
1/8	B1-T15	1-T15	—	1/4-18	—	1.25	0.65	0.56
1/4	B2-T15	2-T15	LL2-T15	1/4-18	—	1.61	0.65	0.56
1/4	—	—	HL2-T15*	1/4-18	—	1.61	0.65	0.56
1/4	B2-T15BS	2-T15BS	LL2-T15BS	—	1/4-19	1.35	0.87	0.75
3/8	B3-T20	3-T20	LL3-T20	3/8-18	—	1.69	0.79	0.69
3/8	—	—	HL3-T20*	3/8-18	—	1.69	0.79	0.69
3/8	B3-T20BS	3-T20BS	LL3-T20BS	—	3/8-19	1.50	1.01	0.88
1/2	B4-T25	4-T25	LL4-T25	1/2-14	—	2.03	1.01	0.88
1/2	B4-T25BS	4-T25BS	LL4-T25BS	—	1/2-14	1.77	1.15	1.00
3/4	B6-T30	6-T30	LL6-T30	3/4-14	—	2.25	1.23	1.06
3/4	B6-T30BS	—	LL6-T30BS	—	3/4-14	2.00	1.44	1.25
1	B8-T35	8-T35	LL8-T35	1-11/2	—	2.53	1.59	1.38
1	B8-T35BS	—	—	—	1-11	2.30	2.02	1.75
1 1/4	B10-T40	10-T40	LL10-T40	1 1/4-11 1/2	—	2.72	2.02	1.75
1 1/4	B10-T40BS	—	—	—	1 1/4-11	2.50	2.31	2.00
1 1/2	B12-T45	12-T45	—	1 1/2-11 1/2	—	3.31	2.60	2.25
1 1/2	B12-T45BS	—	—	—	1 1/2-11	3.06	2.60	2.25
2	B16-T50	16-T50	LL16-T50	2-11 1/2	—	3.50	3.18	2.75
2	—	—	LL16-T50BS	—	2-11	3.50	3.18	2.75
2 1/2	B20-T55	—	—	2 1/2-8	—	3.97	3.75	3.25

*High impulse heat treated 416 stainless steel

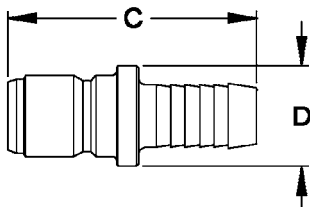
Female End Connections



Body Size	Part Number			Thread Size		Dimensions		
	Brass	Steel	Stainless	NPTF	BSPF	C	D	Hex
1/8	B1-T11	1-T11	LL1-T11	1/8-27	—	1.00	0.58	0.50
1/8	B1-T11BS	—	LL1-T11BS	—	1/8-28	0.97	0.65	0.56
1/4	B2-T16	2-T16	LL2-T16	1/4-18	—	1.50	0.79	0.69
1/4	—	—	HL2-T16*	1/4-18	—	1.50	0.79	0.69
1/4	B2-T16BS	2-T16BS	LL2-T16BS	—	1/4-19	1.45	0.87	0.75
3/8	B3-T21	3-T21	LL3-T21	3/8-18	—	1.63	0.94	0.81
3/8	—	—	HL3-T21*	3/8-18	—	1.63	0.94	0.81
3/8	B3-T21BS	3-T21BS	LL3-T21BS	—	3/8-19	1.63	1.01	0.88
1/2	B4-T26	4-T26	LL4-T26	1/2-14	—	1.94	1.15	1.00
1/2	B4-T26BS	4-T26BS	LL4-T26BS	—	1/2-14	1.92	1.23	1.06
3/4	B6-T31	6-T31	LL6-T31	3/4-14	—	2.06	1.37	1.19
3/4	B6-T31BS	—	LL6-T31BS	—	3/4-14	2.01	1.52	1.31
1	B8-T36	8-T36	LL8-T36	1-11 1/2	—	2.21	1.80	1.56
1	B8-T36BS	8-T36BS	LL8-T36BS	—	1-11	2.23	1.80	1.56
1 1/4	B10-T41	10-T41	LL10-T41	1 1/4-11 1/2	—	2.34	2.31	2.00
1 1/4	B10-T41BS	—	—	—	1 1/4-11	2.44	2.31	2.00
1 1/2	B12-T46	12-T46	LL12-T46	1 1/2-11 1/2	—	2.88	2.60	2.25
1 1/2	B12-T46BS	—	—	—	1 1/2-11	2.88	2.60	2.25
2	B16-T51	16-T51	—	2-11 1/2	—	3.03	3.18	2.75
2	B16-T51BS	—	—	—	2-11	3.25	3.18	2.75
2 1/2	B20-T56	20-T56	—	2 1/2-8	—	3.37	3.75	3.25

*High impulse heat treated 416 stainless steel

Hose Stem Connections



Body Size	Part Number			Hose I.D.	Dimensions	
	Brass	Steel	Stainless		C	D
1/8	B1-T12	—	LL1-T12	3/16"	1.28	0.44
1/8	B1-T17	—	LL1-T17	1/4"	1.28	0.44
1/4	B2-T17	2-T17	LL2-T17	1/4"	1.93	0.56
3/8	B3-T22	3-T22	LL3-T22	3/8"	2.09	0.69
1/2	B4-T27	4-T27	LL4-T27	1/2"	2.17	0.88
3/4	B6-T32	6-T32	LL6-T32	3/4"	3.17	1.19
1	B8-T37	8-T37	—	1"	3.28	1.50

Any plug will connect with any socket in the same series (same body size)

STRAIGHT-THROUGH

All dimensions in inches.