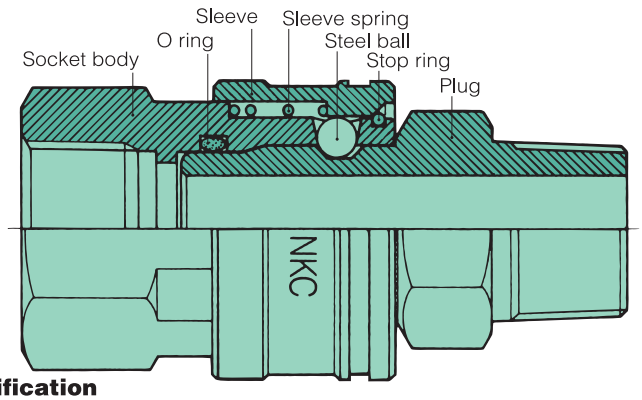
TS Series

For middle & low pressure, wide applications Valveless type

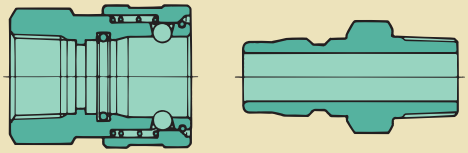


Features

- This valveless model has no valve mechanism in the socket and none in the plug. It is ideal if there is no need to shut the pipe when disconnecting the socket and plug.
- The internal construction features a low flow resistance toreduce pressure loss. This series is thus well-suited to high-viscosity fluids, steam and pulverulent bodies.
- Both the socket and plug are available with male screw connoction, female screw connection and hose connection. Such connections can be combined as desired.
- Numerous models are available varying in nominal diameter, body material, O ring material and connection method. You can select precisely the best model for your application and operating conditions.

When disconnecting

When the sleeve of the socket is moved to the socket side, the steel ball can move freely in the outer circumferential direction and the plug can be removed. Since both the socket and plug have no valve mechanism, the fluid flows outward.



When connecting

If the plug is inserted while the sleeve remains on the socket side, the sleeve is returned to its former position by the force of the sleeve spring. The steel ball locks in place to ensure connection. The O ring completely prevents fluid leakage.

Specification

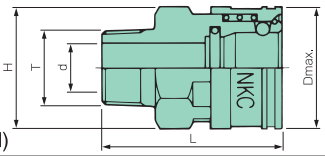
Model		TS-1	TS-2	TS-3	TS-4	TS-6	TS-8	TS-10	TS-12	TS-16
Nominal diameter		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Material of socket / plug body		Brass C3604(BsBM) / Stainless steel SUS304								
Connection method	Socket	Female thread(F) / Male thread(M) / Hose nipple(H)								
	Plug									
Working pressure MPa (Max.working pressure)	Brass	5.0 (7.5)				3.0 (4.5)		2.0 (3.0)		1.5 (2.3)
	Stainless steel	7.5 (10.0)				4.5 (6.5)		3.0 (4.0)		2.0 (3.0)
O ring material Working temperature range		Viton(FMP) : −20°C～+180°C								
Applicable fluid	Brass	Gasoline, Heavy oil, Kerosene, Water, Steam								
	Stainless steel	Acidic fluide, Alkaline fluid, Brine								
Use		Hydraulic machine, Hydraulic piping, Water piping, Steam piping, Sea-water piping, Chemical plant, Chemicals, High pressure gas piping								

Notes

- Note that sockets can be connected to plugs only when their nominal diameters are the same.
- Sockets and plugs with large nominal diameters have a lowresistance to pressure. Bear this in mind when using large sockets and plugs.
- Please specify the O ring material in accordance with the type of fluid to be piped.

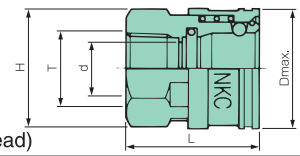
TS Series Socket (S)

Model SM (Male thread)



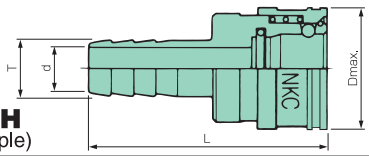
model	Thread size T (R)	Dimensions(mm) L	Dmax. (ϕ)	d (ϕ)	H (Hex)	Mass(g) Brass	Stainless steel
TS-1SM	1/8"	30	18	5	14	28	27
TS-2SM	1/4"	42	24	7	19	70	65
TS-3SM	3/8"	45	28	10	23	100	93
TS-4SM	1/2"	54	35	13	29	180	166
TS-6SM	3/4"	64	45	17	35	360	335
TS-8SM	1"	74	58	24	46	680	628
TS-10SM	1-1/4"	86	69	32	Face width 54	1030	960
TS-12SM	1-1/2"	95	75	38	Face width 58	1250	1180
TS-16SM	2"	108	98	50	Face width 77	2130	2020

Model SF (Female thread)



model	Thread size T (Rc)	Dimensions(mm) L	Dmax. (ϕ)	d (ϕ)	H (Hex)	Mass(g) Brass	Stainless steel
TS-1SF	1/8"	25	18	5	14	25	24
TS-2SF	1/4"	32	24	7	19	55	50
TS-3SF	3/8"	35	28	12	23	90	83
TS-4SF	1/2"	42	35	13	29	160	148
TS-6SF	3/4"	50	45	19	35	320	300
TS-8SF	1"	59	58	26	46	525	490
TS-10SF	1-1/4"	64	69	36	Face width 54	900	825
TS-12SF	1-1/2"	71	75	42	Face width 58	1050	970
TS-16SF	2"	80	98	54	Face width 77	2850	1660

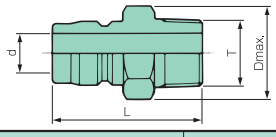
Model SH (Hose nipple)



型式	T	Dimensions(mm) L	Dmax. (ϕ)	d (ϕ)	Mass(g) Brass	Stainless steel
TS-1SH	6.5	42	18	3	28	26
TS-2SH	9	57	24	5	67	63
TS-3SH	11.3	62	28	7	105	97
TS-4SH	15	71	35	10	175	162
TS-6SH	21	84	45	15	337	315
TS-8SH	27	99	58	19	640	600
TS-10SH	34.5	119	69	26	1000	950
TS-12SH	41	125	75	32	1245	1180
TS-16SH	54	141	98	40	2400	2190

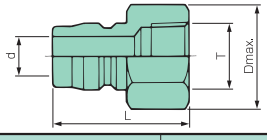
TS Series Plug (P)

Model PM (Male thread)



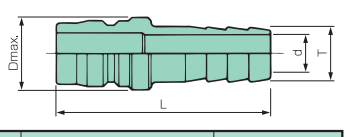
model	Thread size T (R)	Dimensions(mm) L	Dmax. (Hex)	d (ϕ)	Mass(g) Brass	Stainless steel
TS-1PM	1/8"	32	11	5	25	24
TS-2PM	1/4"	38	17	7	32	30
TS-3PM	3/8"	43	19	10	45	42
TS-4PM	1/2"	52	23	13	84	78
TS-6PM	3/4"	59	29	17	150	138
TS-8PM	1"	74	38	24	320	300
TS-10PM	1-1/4"	83	48	32	530	505
TS-12PM	1-1/2"	93	54	38	710	675
TS-16PM	2"	102	Face width 75/ϕ80	48	1430	1320

Model PF (Female thread)



model	Thread size T (Rc)	Dimensions(mm) L	Dmax. (Hex)	d (ϕ)	Mass(g) Brass	Stainless steel
TS-1PF	1/8"	25	14	5	13	13
TS-2PF	1/4"	32	17	7	17	16
TS-3PF	3/8"	38	21	10	45	42
TS-4PF	1/2"	44	26	13	85	78
TS-6PF	3/4"	50	35	17	177	161
TS-8PF	1"	59	41	26	265	240
TS-10PF	1-1/4"	64	53	32	610	580
TS-12PF	1-1/2"	75	58	38	750	635
TS-16PF	2"	83	Face width 77/ϕ82	50	1350	1180

Model PH (Hose nipple)



model	T	Dimensions(mm) L	Dmax. (ϕ)	d (ϕ)	Mass(g) Brass	Stainless steel
TS-1PH	6.5	42	12	3	12	12
TS-2PH	9	53	14	5	25	33
TS-3PH	11.3	60	18	7	40	37
TS-4PH	15	69	22	10	75	69
TS-6PH	21	80	28	15	132	124
TS-8PH	27	96	40	19	340	315
TS-10PH	34.5	120	48	26	560	520
TS-12PH	41	132	55	32	700	650
TS-16PH	54	142	70	40	1450	1350

※Specifications are subjects to change without notice.