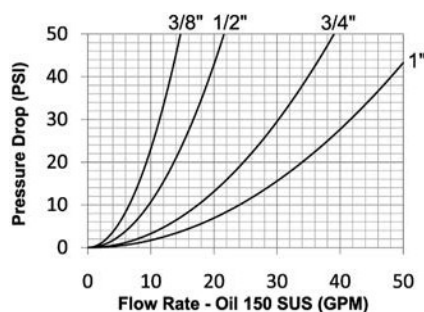


Hydraulic Couplings: TR-Series

Interchange Data

- European interchange
- TEMA 3800, 5000, 7500, 10000 Series
- CEJN Series 525



Materials

- Machined components are manufactured using solid steel bar stock
- Stainless steel balls, retaining rings, and springs maximize corrosion resistance and extend service life.
- Steel componentry is plated using ROHS-compliant trivalent chrome
- Steel coupler sleeves are hardened to resist deformation and maximize service life
- Steel plugs are hardened to provide heavy-duty performance

Seal Components

- Nitrile (Buna-N) seals are standard, providing a temperature range of -40°F to 250°F (-40°C to 121°C)
- Couplers have a redundant O-ring sealing system (dual O-rings with inner PTFE back-up ring)
- Valve seals are crimped in place to maintain integrity during excessive flow conditions and pressurized connection

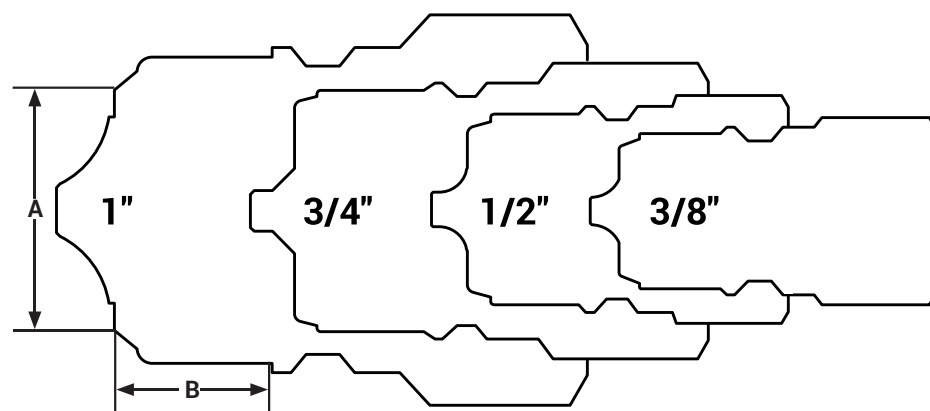
Rated Pressure Chart

Body Size	TR-Series European Interchange (Connected)			
	Steel Coupler/Plug			
	Maximum Working		Burst	
	PSI	Bar	PSI	Bar
3/8"	5,000	345	20,000	1,400
1/2"	4,000	275	16,500	1,100
3/4"	4,000	275	15,400	1,000
1"	3,200	220	12,800	900

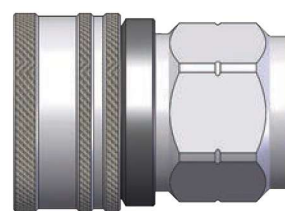
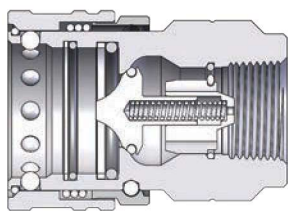
Technical Specifications

Body Size	Interchange Standards				Functional Parameters				
	U.S. Military	U.S. Government	International Standards	ANSI/NFPA Standards	Locking Ball Quantity	Air Inclusion	Fluid Loss	Vacuum inch HG	Flow $\Delta P = 22$ PSI
3/8"	-	-	-	-	9	2.8cc	1.9cc	28	10 GPM
1/2"	-	-	-	-	9	3.9cc	3.1cc	28	15 GPM
3/4"	-	-	-	-	9	10.5cc	10.1cc	28	26 GPM
1"	-	-	-	-	9	14.7cc	14.2cc	28	36 GPM

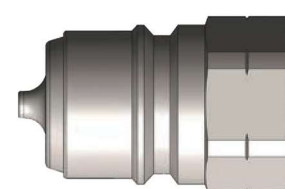
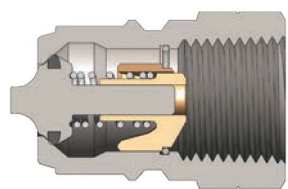
TR Interchange Profiles



Body Size	A	B
3/8"	0.78	0.53
1/2"	0.97	0.60
3/4"	1.29	0.75
1"	1.61	0.85



Body Size	TR-Series European Interchange Coupler (Female Threads)							
	Part Detail			Length		Maximum OD		Hex mm
	Part #	Threads	Material	inch	mm	inch	mm	
3/8"	3TRF3	3/8" - 18 NPTF	steel	2.52	64.0	1.38	35.0	30
	3TRBF3	3/8" - 19 BSPP	steel	2.52	64.0	1.38	35.0	30
1/2"	4TRF4	1/2" - 14 NPTF	steel	2.62	66.5	1.57	40.0	36
	4TRBF4	1/2" - 14 BSPP	steel	2.62	66.5	1.57	40.0	36
3/4"	6TRF6	3/4" - 14 NPTF	steel	3.35	85.0	2.05	52.0	41
	6TRBF6	3/4" - 14 BSPP	steel	3.35	85.0	2.05	52.0	41
1"	8TRF8	1" - 11-1/2 NPTF	steel	3.90	99.0	2.56	65.0	55
	8TRBF8	1" - 11 BSPP	steel	3.90	99.0	2.56	65.0	55



Body Size	TR-Series European Interchange Plug (Female Threads)							
	Part Detail			Length		Maximum OD		Hex mm
	Part #	Threads	Material	inch	mm	inch	mm	
3/8"	TR3F3	3/8" - 18 NPTF	steel	1.59	40.5	1.00	25.4	22
	TR3BF3	3/8" - 19 BSPP	steel	1.59	40.5	1.00	25.4	22
1/2"	TR4F4	1/2" - 14 NPTF	steel	1.63	41.5	1.23	31.1	27
	TR4BF4	1/2" - 14 BSPP	steel	1.63	41.5	1.23	31.1	27
3/4"	TR6F6	3/4" - 14 NPTF	steel	2.20	56.0	1.63	41.5	36
	TR6BF6	3/4" - 14 BSPP	steel	2.20	56.0	1.63	41.5	36
1"	TR8F8	1" - 11-1/2 NPTF	steel	2.48	63.0	2.09	53.0	46
	TR8BF8	1" - 11 BSPP	steel	2.48	63.0	2.09	53.0	46

Body Size	TR-Series European Coupler Seal Kits				
	Part Detail			Seal Kit Contents	
	Part #	Coupler Style	Seal Material		
3/8"	3TR-SKIT	all	nitrile	two O-rings and two PTFE back-up ring	
1/2"	4TR-SKIT	all	nitrile	two O-rings and two PTFE back-up ring	
3/4"	6TR-SKIT	all	nitrile	two O-rings and two PTFE back-up ring	
1"	8TR-SKIT	all	nitrile	two O-rings and one PTFE back-up ring	

Please contact Dixon for dust caps and dust plugs.