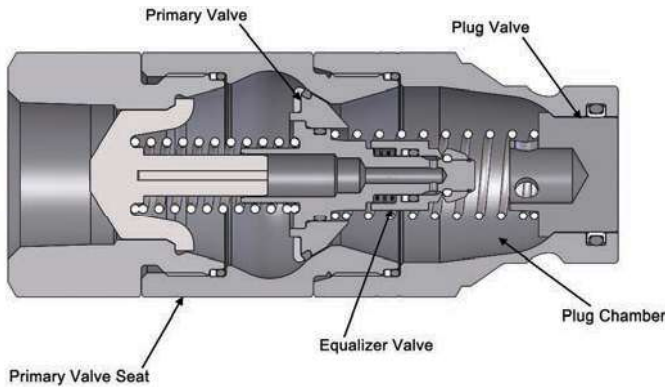
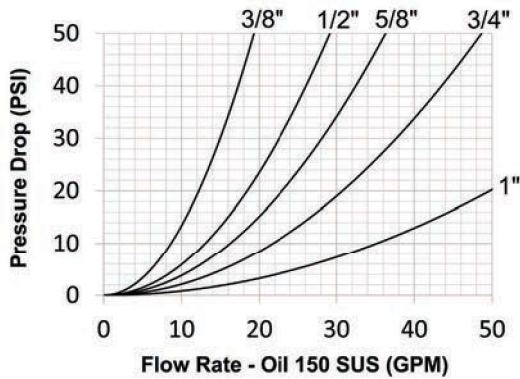


# Hydraulic Couplings: HTE-Series

## Interchange Data

- Parker FEC-Series, Stucchi APM-Series, Faster 3FFH-Series



## Materials

- Machined components are manufactured using solid steel bar stock
- Steel componentry is plated using a ROHS compliant zinc-nickel process providing corrosion resistance
- Stainless steel retaining rings and springs maximize corrosion resistance and extend service life
- Plugs are hardened to provide resistance to brinelling during impulse service

## Seal Components

- 3/8", 1/2", 3/4", and 1" plugs have molded polyurethane valve seals, with a temperature range of -65°F to 212°F (-54°C to 100°C)
- 5/8" plugs have nitrile-energized PTFE valve seals, with a temperature range of -40°F to 250°F (-40°C to 121°C)
- Ancillary plug seals are nitrile (buna-N), with a temperature range of -40°F to 250°F (-40°C to 121°C)
- Backup rings for all sizes are PTFE

## Component Terminology

- Non-linear connection force at many pressures
- No maximum connection-pressure restrictions
- Head pressure or valve bleed-by has minimal effect on connection force
- Less susceptible to system contamination
- Design is scalable performing similarly in many sizes
- Smooth connection action

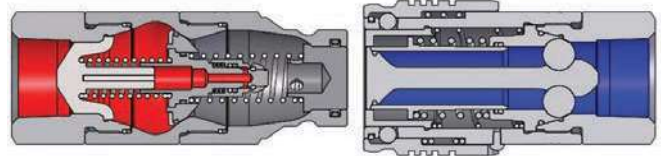
## Rated Pressure Chart

Body Size	HTE-Series ISO16028 Connect Under Pressure Flushface Plug											
	Steel HT Coupler/ HTE-Plug Coupled				HTE-Plug Uncoupled				Air Inclusion	Fluid Loss	Vacuum inch HG	Flow ΔP = 14.5 PSI
	Max. Working		Burst		Max. Working		Burst					
	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar				
3/8"	5,000	345	20,000	1,380	5,000	345	20,000	1,380	n/a	0.010cc	N/R	9.5 GPM
1/2"	5,000	345	20,000	1,380	5,000	345	20,000	1,380	n/a	0.010cc	N/R	15.0 GPM
5/8"	5,000	345	20,000	1,380	5,000	345	20,000	1,380	n/a	0.020cc	N/R	18.0 GPM
3/4"	5,000	345	20,000	1,380	5,000	345	20,000	1,380	n/a	0.030cc	N/R	24.0 GPM
1"	5,000	345	20,000	1,380	5,000	345	20,000	1,380	n/a	0.030cc	N/R	44.0 GPM

## The Connection Process

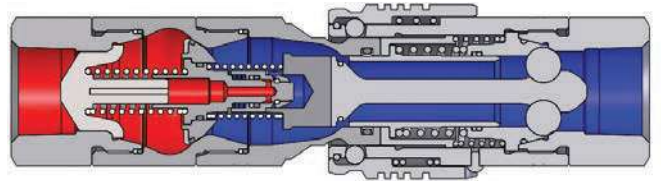
### Stage 1: The Disconnected State

The plug has residual pressure trapped behind the primary valve, while the coupler has no trapped pressure.



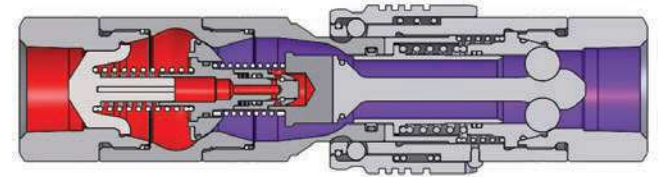
### Stage 2: Plug Chamber Evacuated

The plug valve is opened, then the socket valve opens, evacuating the plug chamber to the unpressurized socket.



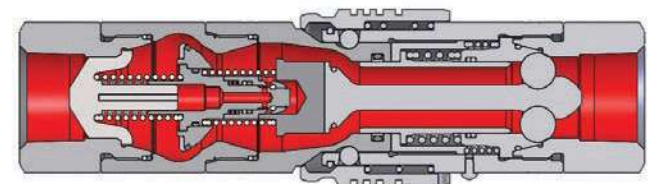
### Stage 3: Release Pressure

The connection continues, with the valve being activated, releasing the trapped pressure into the plug chamber, then to the unpressurized socket.

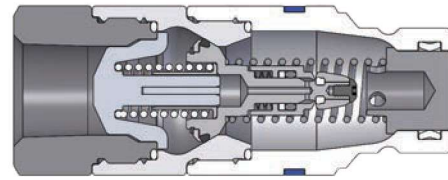


### Stage 4: Complete the Connection

The primary valve can now open easily, since there is no longer any pressure trapped behind it, allowing the socket to fully engage the plug.



## Hydraulic Couplings: HTE-Series



- For use with HT-Series couplers

Body Size	HTE-Series ISO 16028 Connect Under Pressure Flushface Plug (Female Threads)							
	Part Detail			Length		Maximum OD		Hex inch
	Part #	Threads	Material	inch	mm	inch	mm	
3/8"	HTE3F3	3/8" - 18 NPTF	steel	3.21	81.4	1.31	33.3	1-3/16"
	HTE3F4	1/2" - 14 NPTF	steel	3.25	82.6	1.30	33.0	1-1/8"
	HTE3BF4	1/2" - 14 BSPP	steel	3.25	82.6	1.30	33.0	1-1/8"
	HTE3OF4	3/4" - 16 ORB	steel	3.25	82.6	1.30	33.0	1-1/8"
1/2"	HTE4F4	1/2" - 14 NPTF	steel	3.40	86.4	1.30	33.0	1-3/16"
	HTE4BF4	1/2" - 14 BSPP	steel	3.40	86.4	1.30	33.0	1-3/16"
	HTE4OF4	3/4" - 16 ORB	steel	3.40	86.4	1.30	33.0	1-3/16"
	HTE4OF5	7/8" - 14 ORB	steel	3.40	86.4	1.30	33.0	1-1/2"
	HTE4F6	3/4" - 14 NPTF	steel	3.60	91.4	1.65	41.9	1-1/2"
	HTE4BF6	3/4" - 14 BSPP	steel	3.60	91.4	1.65	41.9	1-1/2"
5/8"	HTE4OF6	1-1/16" - 12 ORB	steel	3.60	91.4	1.65	41.9	1-1/2"
	HTE5OF5	7/8" - 14 ORB	steel	3.75	95.3	1.65	41.9	1-1/2"
	HTE5F6	3/4" - 14 NPTF	steel	3.75	95.3	1.65	41.9	1-1/2"
	HTE5BF6	3/4" - 14 BSPP	steel	3.75	95.3	1.65	41.9	1-1/2"
3/4"	HTE5OF6	1-1/16" - 12 ORB	steel	3.75	95.3	1.65	41.9	1-1/2"
	HTE6F6	3/4" - 14 NPTF	steel	4.25	108.0	1.96	49.8	1-1/2"
	HTE6BF6	3/4" - 14 BSPP	steel	4.25	108.0	1.96	49.8	1-1/2"
	HTE6OF6	1-1/16" - 12 ORB	steel	4.25	108.0	1.96	49.8	1-1/2"
	HTE6F8	1" - 11-1/2 NPTF	steel	4.40	111.8	1.96	49.8	1-3/4"
	HTE6BF8	1" - 11 BSPP	steel	4.40	111.8	1.96	49.8	1-3/4"
1"	HTE6OF8	1-5/16" - 12 ORB	steel	4.40	111.8	1.96	49.8	1-3/4"
	HTE8F8	1" - 11-1/2 NPTF	steel	4.88	124.0	1.96	49.8	1-3/4"
	HTE8BF8	1" - 11 BSPP	steel	4.88	124.0	1.96	49.8	1-3/4"
	HTE8OF8	1-5/16" - 12 ORB	steel	4.88	124.0	1.96	49.8	1-3/4"
	HTE8F10	1-1/4" - 11-1/2 NPTF	steel	5.00	127.0	2.47	62.7	2-3/16"
	HTE8BF10	1-1/4" - 11 BSPP	steel	5.00	127.0	2.47	62.7	2-3/16"
	HTE8OF10	1-5/8" - 12 ORB	steel	5.00	127.0	2.47	62.7	2-3/16"