

HTE-Series ISO 16028 Connect Under Pressure Flush Face Nipple

Interchange Data:

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

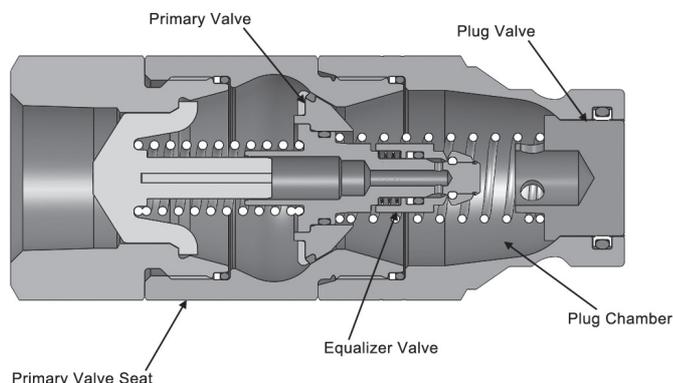
Materials:

- Machined components are manufactured using solid Steel bar stock.
- Steel componentry is plated using a ROHS Compliant Zinc Nickel process providing superior corrosion resistance.
- Stainless Steel retaining rings and springs maximise corrosion resistance and extend service life.
- Nipples are hardened to provide resistance to brinelling during impulse service.

Seal Components:

- 3/8", 1/2", and 3/4" nipples have molded Polyurethane valve seals, with a temperature range of -54°C to +100°C (-65°F to +212°F).
- 5/8" and 1" nipples have Nitrile-Energised PTFE valve seals, with a temperature range of -40°C to +121°C (-40°F to +250°F).
- Ancillary nipple seals are Nitrile (Buna-N), temperature range of -40°C to +121°C (-40°F to +250°F).

Component Terminology



Benefits of the new Equalizer valve system!

- Non-linear connection force at all 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 all sizes
- Smooth connection action

Rated Pressure Chart:

HTE-SERIES ISO16028 CONNECT UNDER PRESSURE FLUSHFACE NIPPLE												
BODY SIZE	STEEL HT COUPLER/ HTE-PLUG COUPLED				HTE-PLUG UNCOUPLED				AIR INCLUSION	FLUID LOSS	VACUUM INCH HG	FLOW ΔP = 14.5 PSI L/MIN
	Maximum Working		Burst		Maximum Working		Burst					
	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar				
3/8"	5000	345	20,000	1,380	5000	345	20,000	1,380	n/a	0.010cc	N/R	36
1/2"	5000	345	20,000	1,380	5000	345	20,000	1,380	n/a	0.010cc	N/R	56
5/8"	5000	345	20,000	1,380	5000	345	20,000	1,380	n/a	0.020cc	N/R	68
3/4"	5000	345	20,000	1,380	5000	345	20,000	1,380	n/a	0.030cc	N/R	90
1"	5000	345	20,000	1,380	5000	345	20,000	1,380	n/a	0.030cc	N/R	44

The Equalizer Connection Process

Stage 1: The Disconnected State

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



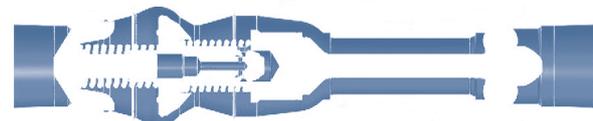
Stage 2: Plug Chamber Evacuated

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



Stage 3: Release Pressure

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

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HTE-SERIES ISO 16028 CONNECT UNDER PRESSURE FLUSH FACE NIPPLE (FEMALE THREADS)

PART NO	BODY SIZE	THREADS	MATERIAL
HTE3F4	3/8"	1/2"-14 NPTF	Steel
HTE3BF4	3/8"	1/2"-14 BSPP	Steel
HTE3OF4	3/8"	3/4"-16 ORB	Steel
HTE4F4	1/2"	1/2"-14 NPTF	Steel
HTE4BF4	1/2"	1/2"-14 BSPP	Steel
HTE4OF4	1/2"	3/4"-16 ORB	Steel
HTE4OF5	1/2"	7/8"-14 ORB	Steel
HTE4F6	1/2"	3/4"-14 NPTF	Steel
HTE4BF6	1/2"	3/4"-14 BSPP	Steel
HTE4OF6	1/2"	1 1/16"-12 ORB	Steel
HTE5OF5	5/8"	7/8"-14 ORB	Steel
HTE5F6	5/8"	3/4"-14 NPTF	Steel
HTE5BF6	5/8"	3/4"-14 BSPP	Steel
HTE5OF6	5/8"	1 1/16"-12 ORB	Steel
HTE6F6	3/4"	3/4"-14 NPTF	Steel
HTE6BF6	3/4"	3/4"-14 BSPP	Steel
HTE6OF6	3/4"	1 1/16"-12 ORB	Steel
HTE6F8	3/4"	1"-11 1/2 NPTF	Steel
HTE6BF8	3/4"	1"-11 BSPP	Steel
HTE6OF8	3/4"	1-5/16"-12 ORB	Steel
HTE8F8	1"	1"-11 1/2 NPTF	Steel
HTE8BF8	1"	1"-11 BSPP	Steel
HTE8OF8	1"	1 5/16"-12 ORB	Steel
HTE8F10	1"	1 1/4"-11 1/2 NPTF	Steel
HTE8BF10	1"	1 1/4"-11 BSPP	Steel
HTE8OF10	1"	1 5/8"-12 ORB	Steel

For use with HT-Series Couplers