



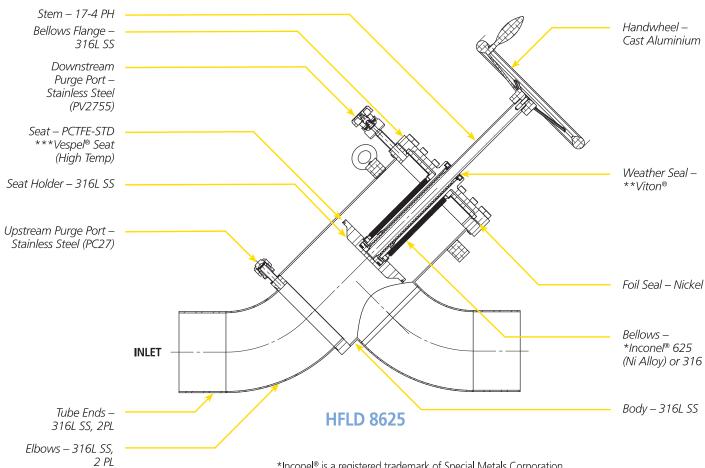
This HFLD valve series is designed to achieve the highest flow applications in the industry. Maintaining critical high performance delivery of Ultra High Purity gases to exceed your exacting specifications today and tomorrow.

- Higher purity gas distribution system control
- Superior containment and cleanliness for your most critical valve applications
- Suitable for inert and most spec. gases

HFLD Series Product Features

- Highest Cv in the Industry
- Ultra-High Purity Stainless Steel Gas Construction
- *Inconel® 625 Bellows for High Cycle Life and Superior Corrosion Resistance
- Electropolished 20 Ra Max Surface Finish Standard/10 Ra Option
- Industry Leader in Ultra-High Purity Gas Containment
- Purge Connections are Integrated in Valve Body
- Valve Body and Tube Ends are Serialized for Material Certification

HFLD Construction Materials



*Inconel® is a registered trademark of Special Metals Corporation.

^{**}Viton® is a registered trademark of DuPont Company.

^{***} Vespel® is a registered trademark of DuPont Company.

HFLD8625 8"

HFLD8625 SERIES TECHNICAL DATA

MATERIAL OF CONSTRUCTION	Wetted Areas	316L SS, *Inconel® 625/316L, PCTFE, Nickel		
	Non-Wetted Areas	17-4 PH, 316L SS, **Viton®, Aluminium, ABS		
MAXIMUM OPERATING PRESSURE	HFLD Series	Vacuum-300 psig (21.0 bar)		
MAXIMUM OPERATING TEMPERATURE	PCTFE Seat – Std *Vespel® Seat (High Temp)	-22°F (-30°C) to 180°F (82°C) 181°F (83°C) to 302°F (150°C)		

^{*}Inconel® is a registered trademark of Special Metals Corporation.

**Vespel® is a registered trademark of DuPont Company.

***Viton® is a registered trademark of DuPont Company.

VALVE MODELS	BODY DATA	FLOW COEFFICIENT (CV)
SERIES/SIZE (Inch)	Pipe/Body (Seat-Orfice) Sizes	
HFLD 8625	Ø8.625 / 8.625 (Ø8.625 in. (Ø219.1mm)-Orifice)	1917
CYCLE LIFE	> 350 @ 300 Psig (21.0 bar)	

HELIUM LEAK TEST	Inboard Across the Seat Outboard Pressure Test	≤ 1 x 10 ⁻⁹ std.cc (atm) He / sec ≤ 1 x 10 ⁻⁹ std.cc (atm) He / sec ≤ 1 x 10 ⁻⁶ std.cc (atm) He / sec	
CLEANLINESS AND PACKAGING	Assembled and tested in Class 100 Cleanroom. Double-bag Packaging (2 mil nylon inner bag, 6 mil Polyethylene outer bag) with Ultra-High Purity $\rm N_2$ gas enviornment. Purged and Final Packaged in Class 1 Cleanroom.		
STANDARD FINISH	20 Ra (0.5 μm) (10 Ra (0.25 μm) option) EP on all wetted surfaces		
NOTES AND OPTIONS	Testing: Particle, Moisture, O2, SEM, ESCA, a	nd AES	

Specifications are subject to change without notice.

HFLD6000 6"

HFLD6000 SERIES TECHNICAL DATA

MATERIAL OF CONSTRUCTION	Wetted Areas	316L SS, *Inconel® 625/316L, PCTFE, Nickel		
	Non-Wetted Areas	17-4 PH, 316L SS, **Viton®, Aluminium, ABS		
MAXIMUM OPERATING PRESSURE	HFLD Series	Vacuum-300 psig (21.0 bar)		
MAXIMUM OPERATING TEMPERATURE	PCTFE Seat – Std *Vespel® Seat (High Temp)	-22°F (-30°C) to 180°F (82°C) 181°F (83°C) to 302°F (150°C)		

^{*}Inconel® is a registered trademark of Special Metals Corporation.

**Vespel® is registered trademarks of DuPont Company.

***Viton® is registered trademarks of DuPont Company.

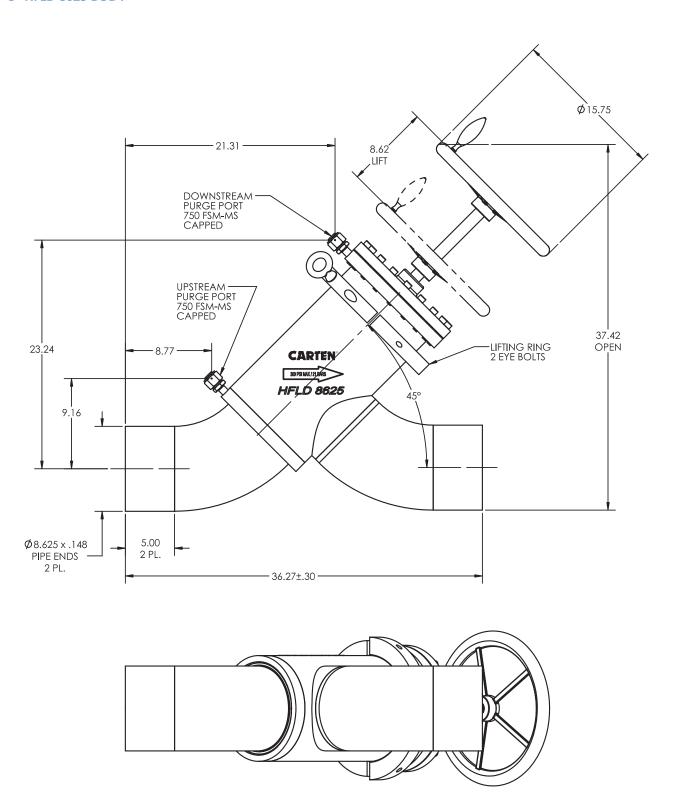
VALVE MODELS	BODY DATA	FLOW COEFFICIENT (CV)
SERIES/SIZE (Inch)	Pipe/Body (Seat-Orfice) Sizes	
HFLD 6000	Ø6.00 / Ø6.00 (Ø5.42 in. (Ø137.7 mm)-Orifice)	814
CYCLE LIFE	>350 @ 375 Psig (26.0 bar)	

HELIUM LEAK TEST	Inboard Across the Seat Outboard Pressure Test	≤ 1 x 10 ⁻⁹ std.cc (atm) He / sec ≤ 1 x 10 ⁻⁹ std.cc (atm) He / sec ≤ 1 x 10 ⁻⁶ std.cc (atm) He / sec	
CLEANLINESS AND PACKAGING	Assembled and tested in Class 100 Cleanroom. Double-bag Packaging (2 mil nylon inner bag, 6 mil Polyethylene outer bag) with Ultra-High Purity N_2 gas enviornment. Purged and Final Packaged in Class 1 Cleanroom.		
STANDARD FINISH	20 Ra (0.5 μm) (10 Ra (0.25 μm) option) EP on all wetted surfaces		
Notes and options	Testing: Particle, Moisture, O2, SEM, ESCA, and AES		

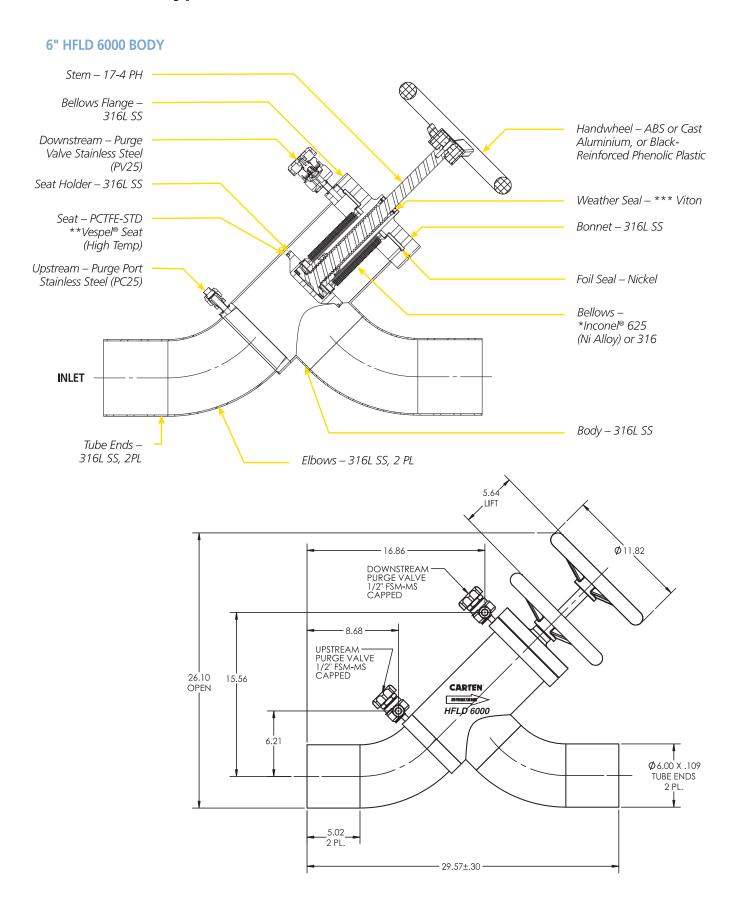


HFLD Series Typical Valve Dimensions

8" HFLD 8625 BODY



HFLD Series Typical Valve Dimensions



HFLD Series Ordering Code

HF	LD	- 862	25	-	20 –	PC27	- FS	M-MS	BK	
SERIES	TYPE	CODE	BODY		SURFACE FINIS	Н	CODE	TY		
HFLD	Manual		(SEAT) SIZES		20 Ra Max.		FSM-MS	Male-	KH	
		8625- 8.0" PIPE ENDS (Ø 8.52)	8.625 (8.625)	10 E	P 10 Ra Max.					
		6000-6.0"		CODE	SIZE/LOC		TYPE	CODE	OPTIONS	;
		TUBE ENDS	6.000	PC27	3/4" Up & Dov	wnstream	Purge		andwheel	
		(Ø 6.00)	(4.625)	PV2755	3/4" Up & Do\	wnstream	Purge Valve	BL	Blue	
				PC25	1/2" Up & Dov	wnstream	Purge	BK	Black– Standard	
				PV25	1/2" Up & Dov		Purge Valve	BR	Brown	
				FVZJ	1/2 Op & DO	Misucaiii	Valve	DG	Dark Gold	
								GL	Gold	
								GR	Green	
								GY	Grey	
								OR PR	Orange Purple	
								PK	Pink	
								RD	Red	
								SL	Silver	
								TL	Teal	
								WT	White	
Cofo Dro -li	et Coloetion							YL	Yellow	
Safe Produc When selec		t, the total system	design must l	oe considered	to ensure safe, troub	ıle-			Options	
		on, material comp				-		V	*Vespel® Sea	

*Vespel® is a registered trademark of DuPont Company.



operation, and maintenance are the responsibilities of the system designer and user.



