Pneumatic Diaphragm Valve for High Pressure



Catalog No. U-VCDH JAN.2013



Materials of Construction

No.	Description	Materials			
		316L SS Single Melting			
1	Body	316L SS Double Melting			
		316L SS			
2	Seat	PCTFE			
3	Diaphragm	Elgiloy			
4	Actuator ALUMINUM				

Specification

•	
Size	1/4"
Orifice Size	2.5
Cv Value	0.1
Max. Working Pressure	210 bar (3045 psig)
Max. Working Temperature	-10~65°C
Actuator Pressure Rating	4 ~ 7 kgf/cm ²
Internal Leakage Allowance - He (Holding Time - Min 30 sec)	≤1x10 ⁻⁹ atm.cc/s
External Leakage Allowance - He (Holding Time - Min 1 min)	≤1x10 ⁻⁹ atm.cc/s

Internal Surface Finish Levels

Gra	ade	BA	EP		
Surface	Averge	< 0.4μm	$< 0.125 \mu m$		
Roughness	Maximum	< 1.6μm	< 0.4μm		

Helium Leak Test

Every VCDH series valves are inboard helium leak tested to a rate of 1x10⁻⁹ cm³/sec at seat and all seals.

Particle Contribution Test

According to ASTM F1394-92.

Moisture Contribution Test

According to SEMA-90120397B-STD.

Cleaning

All components are precisely cleaned with 18№ deionized water after the passivation procedure in accordance with our own UHP cleaning process (UNIP-705-38) Reference specification: SEMI E49.6.

Assembling

According to SEMI E49.6.

Packaging

Each component is double bagged to ensure component cleanliness and to protect them from environmental contamination.

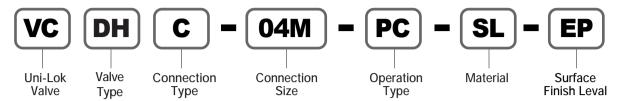
Referenced specification: SEMI E49.1.

Important Notification

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.

Overall process of testing, cleaning, assembling and packaging for every VCDH series valves are performed in a certified clean room.

How To Order



Pneumatic Diaph	
DH for High Pre	•

Connection Type						
C-*M Male UCR						
C-*F	Female UCR					
WS-*T	Butt Weld-Tube					

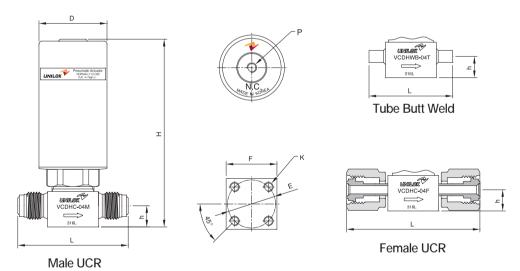
Connection Size							
Fractional(Inch) Tube O.D. Designation							
Tube	inch	1/4					
O.D.	mm	6.35					
Desig	nator	04T					
UCR (Metal Face Seal) Size Designator							
UCR	Size	1/4					
Desig	nator	04M / 04F					

Operation Type					
PC	Pneumatic-Normal Close				
Matariala					

Materials						
DM	316L SS-Double Melting					
SM	316L SS-Single Melting					
SL	316L SS					

Surface Finish Level					
BA	Bright Annealing				
EP	Electro Polishing				

Ordering Information & Dimensions



Part No.		End Connections			Dimensions (mm)						
		Inlet	Outlet	L	h	Н	D	Р	F	Е	K
VCDH	C-04M-	Male UCR		58.4							
	C-04F-	Female	e UCR	70.5	11.2	99.2	36	M5	26.9	25.4	M5
	WB-04T-	Tube Bu	utt Weld	44.3							

Dimensions are for reference only and are subject to change without prior notice.







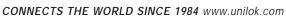












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