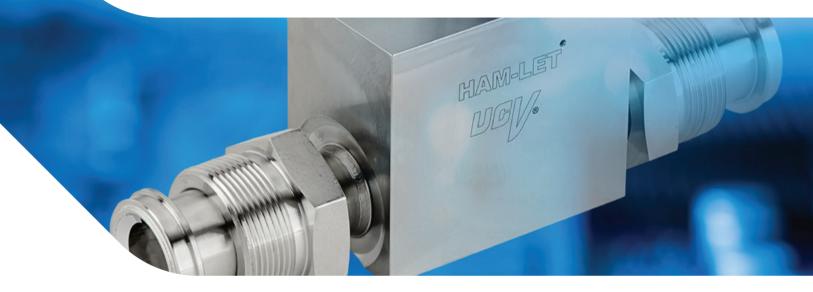
HIGH FLOW DIAPHRAGM VALVES





2LDS12 - STANDARD MODEL

HF - HIGH FLOW





2LDS12 SERIES STANDARD MODEL

Metal Diaphragm Valves

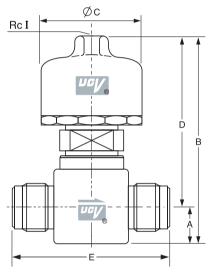
Standard models from the Ultra-Clean Valve Series are made according to UHP specifications. This model comes with end connections in 1/2" or 3/4" as a standard. This valve comfortably fits into high-flow applications.

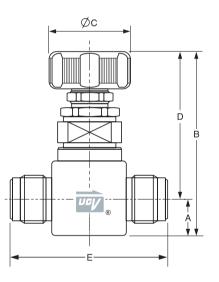
- Unique seat structure offers superb leak performance.
- Compact designs for minimum foot-print.
- Electropolished surfaces
- Forged body

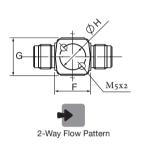


STANDARD CONFIGURATION DIMENSIONS - mm

Part Number/ep	Size	End Connection	А	В	С	D	E	F	G	н	1
2LDS12R-BV	3/4	Male HTC®	23	109	45	86	97	46	45	35	
2LDS12R-FV	3/4	Swivel Female HTC®	23	109	45	86	146	46	45	35	
2LDS12R-W	3/4	Extended Butt Weld	23	109	45	86	146	46	45	35	
2LDS12C-BV	3/4	Male HTC®	23	118	56	95	97	46	45	35	1/8"
2LDS12C-FV	3/4	Swivel Female HTC®	23	118	56	95	146	46	45	35	1/8"
2LDS12C-W	3/4	Extended Butt Weld	23	118	56	95	146	46	45	35	1/8"



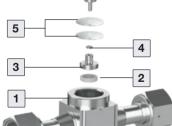












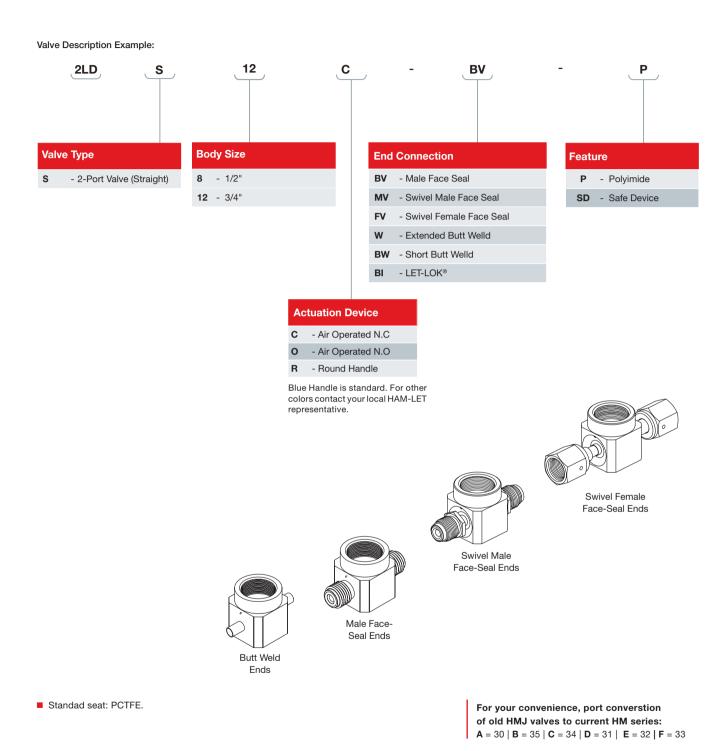
SPECIFICATIONS

Size	Design	Burst pressure	Proof pressure	Temp.	Cv	Leak Rates		
	Pressure				CV	Inboard	Across Seat	
3/4	1MPa (150 psi)	31MPa (4500 psi	1.5MPa (225 psi)	-10 to 60°c	2.2	3X10 ⁻¹² pa•m³/sec Helium	3X10 ⁻⁹ pa•m³/sec Helium	

STRUCTURE

Item No.	Parts	Material					
1	Body	316L Stainless Steel					
2	Seat	PCTFE/PI (Polyimide)					
3	Seat Holder	316L Stainless Steel					
4	Gasket	316L Stainless Steel					
5	Diaphragm	Co-Cr-Ni Alloy					
6	Stem	SS17-4PH					
7	Stem Holder	SS17-4PH					
8	Handle/Act	Aluminum					

ORDERING INFORMATION - STANDARD PERFORMANCE



Warning! For your safety

The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.



HF SERIES HIGH FLOW

The HF UCV series provides a high-quality solution for high flow applications. With ¾" body size, the HF series, same as other UCV products, can be supplied with various end connections to match the end user's tubing system: compression tubbing, male/female face seal, tube buttweld. In addition, the valve is available in manual and air operated (normally opened/closed) versions.



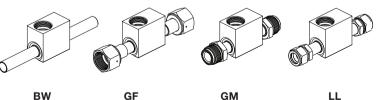
SPECIFICATIONS

Structure	Direct-seal, metal-diaphragm valve without seal packing, manually and pneumatically operated				
Design Pressure	Vacuum to 250 psi (17.2 Bar)				
Burst Pressure	4500 psi (310.2 Bar)				
Proof Pressure	375 psi (25.8 Bar)				
Operating Temperature: Standard	14 to140°F, -10 to 60°C (PCTFE Seat)				
Operating Temperature: Available	14 to 302°F, -10 to 150°C (PFA Seat)				
Leakage: Inboard Leakage	≤ 3x10-11 atm cc He/sec				
Across the seat	≤ 1x10-9 atm cc He/sec				
Particle	No particles detected above 0.1µm.				
CV value	2.8				
Surface Finish Ra (Ave)-Standard	5µin				
Actuator Air Supply (Pneumatic)	5 - 6 Bar				
Air Connection (Pneumatic)	Thread NPT 1/8"				

STRUCTURE

Item No.	Parts	Material					
1	Body	316L Stainless Steel					
2	Seat	PCTFE/PI (Polyimide)					
3	Seat Holder	316L Stainless Steel					
4	Gasket	316L Stainless Steel					
5	Diaphragm	Co-Cr-Ni Alloy					
6	Stem	SS17-4PH					
7	Stem Holder	SS17-4PH					
8	Handle/Act	Aluminum					

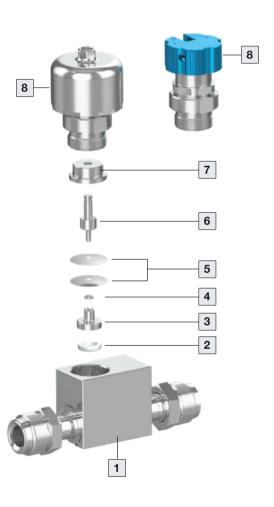
END CONNECTION TYPE



GM Swivel Male Let-Lok® face seal

Among its many industrial applications:

- Semiconductor.
- LCD, LED and the photovoltaic market.
- Inert and Toxic gases.
- Valve Manifold boxes and panels.
 Special gas systems in fab Bulk Gas Distribution



Butt Weld

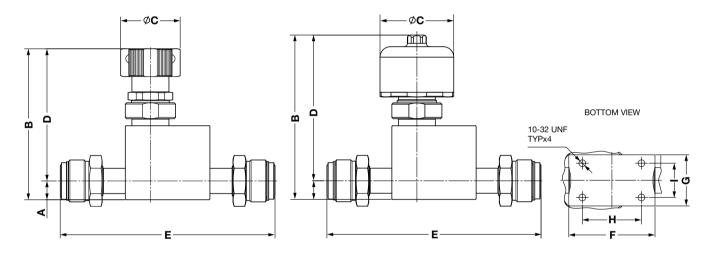
Swivel Female

face seal

HIGH FLOW DIAPHRAGM VALVE HF SERIES

CONFIGURATION DIMENSIONS

DESCRIPTION	Α	В	С	D	E	F	G	н	1
HF20-12LKC-GM12	14.2	124.8	56	110.6	162.6	64	38	43.9	25.4
HF20-12LKC-W12	14.2	124.8	56	110.6	216	64	38	43.9	25.4
HF20-12LKR-GM12	14.2	114.2	45	100	162.6	64	38	43.9	25.4
HF20-12LKR-W12	14.2	114.2	45	100	216	64	38	43.9	25.4



ORDERING INFORMATION HF SERIES

