



Features

- All Internal surfaces are finished with 10Ra or 5Ra to ensure minimal Particle generation & moisture contribution.
- DK-LOK's own electropolished.
- Entrapment metal to metal seal provide enhanced leak tight integrity.
- Excellent stability of set pressure with accuracy, sensitivity.
- Hastelloy C-22 diaphragm material.
- PCTFE / PI seat material with remarkable chemical & thermal resistance.

Specification

Pressure Rating

Maximum Inlet pressure	600 / 3500 psig (41 / 241 bar)
Outlet Pressure Range	0~30 / 0~60 / 0~150 / 0~250 psig (0~2.1 / 0~4.1 / 0~10.3 / 0~17.3 bar)

Material in Contact

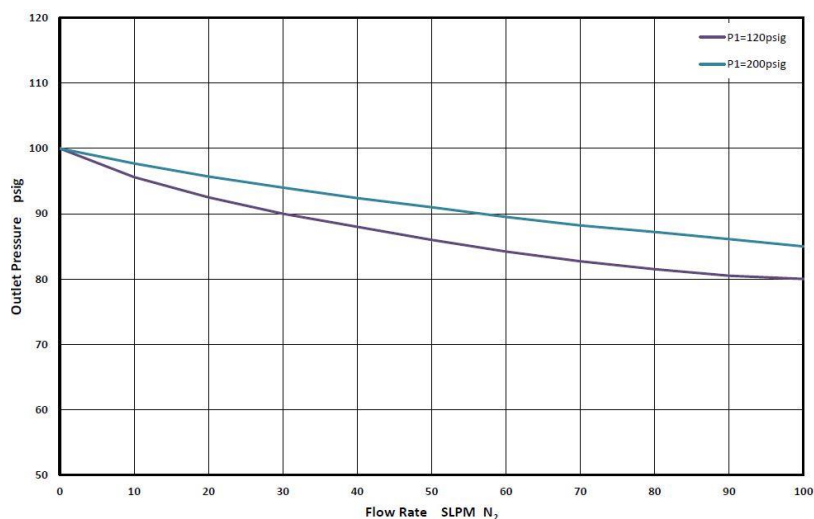
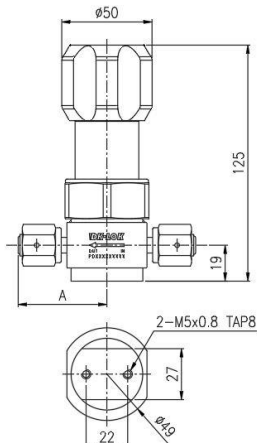
Seat	PCTFE (PI Optional for High Pressure 3500 psig Model)
Poppet	316L Stainless Steel / Hastelloy C-22
Poppet Spring	316L Stainless Steel / Inconel X750
Diaphragm	Hastelloy C-22
Body	316L Stainless Steel BA, EP (Electropolish)

Other Spec.

Flow Coefficient	Cv = 0.2 (600 psig) / Cv = 0.06 (3500 psig)
Inboard Helium Leak rate	$\leq 1 \times 10^{-9}$ atm.cc/sec
Operating Temperature	PCTFE: -26~80°C (-15~176°F) / PI: -26~177°C (-15~350°F)

Dimension & Flow Curve

Size	Con. Type	A ±0.5
1/4"	NF	24.5
	DK	47.5
	TW	38
	DM	57
	DF	47

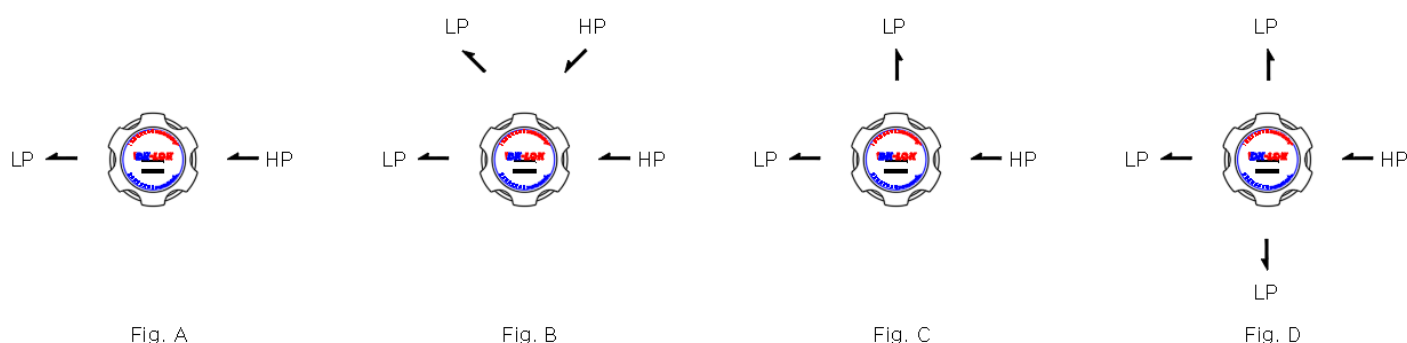


Ordering Information and Dimensions

URG	1	DF	-	2	1	B	3	4	-	SL	P	-	X
1	2	3		4	5	6	7	8		9	10		11

1.Product	Ultra High Purity Regulator Series URG1	
2. Connection Size	1 : 1/4"	
3. Connection Type	NF : Female NPT Thread DK : DK-Lok Type TW : Tube butt Weld	DM : DCR Male Type DF : DCR Female Type
4. Max Inlet Pressure	1 : 3500 psig	2 : 600psig
5. Max. Inlet Pressure Gauge	1 : 600 psig 2 : 1000 psig 3 : 3500 psig	4 : 4000 psig Bland : No Gauge
6. Gauge Port Type & Port Configurations	N : No Gauge(Fig.A) A : 1/4" DCR Female Swivel(Fig.B) B : 1/4" DCR Female Swivel(Fig.C) C : 1/4" DCR Female Swivel(Fig.D) D : 1/4" DCR Male Swivel(Fig.B) E : 1/4" DCR Male Swivel(Fig.C) F : 1/4" DCR Male Swivel(Fig.D)	G : 1/4" Female NPT Thread(Fig.B) H : 1/4" Female NPT Thread(Fig.C) I : 1/4" Female NPT Thread(Fig.D) J : 1/4" Internal Face Seal(Fig.B) K : 1/4" Internal Face Seal(Fig.C) L : 1/4" Internal Face Seal(Fig.D)
7. Outlet Pressure Range	1 : 0~30 psig 2 : 0~60 psig 3 : 0~100 psig	4 : 0~150 psig 5 : 0~250 psig
8. Max. Outlet Pressure Gauge	1 : 30 psig 2 : 60 psig 3 : 100 psig 4 : 160 psig	5 : 200 psig 6 : 300 psig Blank : No Gauge
9. Material .	SL : 316L Stainless Steel SLH : 316L Stainless Steel with Hastelloy internals	DL : 316L Stainless Steel VAR DLH : 316L Stainless Steel VAR with Hastelloy internals
10. Inner Surface Grade	B : BA (Ra 10μin) P : EP (Ra 5μin)	
11. User Option	Customization (STD : Blank)	

Port Configurations



Safe Valve Selection

The selection of a valve for any application or system design must be considered to ensure safe performance. Valve function, valve rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.

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Features

- All Internal surfaces are finished with 10Ra or 5Ra to ensure minimal Particle generation & moisture contribution.
- DK-LOK's own electropolished.
- Entrapment metal to metal seal provide enhanced leak tight integrity.
- Excellent stability of set pressure with accuracy, sensitivity.
- Hastelloy C-22 diaphragm material.
- PFA / PCTFE / PI seat material with remarkable chemical & thermal resistance.

Specification

Pressure Rating

Maximum Inlet pressure	600 / 1000 / 3500 psig (41 / 69 / 241 bar)
Outlet Pressure Range	0~30 / 0~60 / 0~150 psig (0~2.1 / 0~4.1 / 0~10.3 bar)

Material in Contact

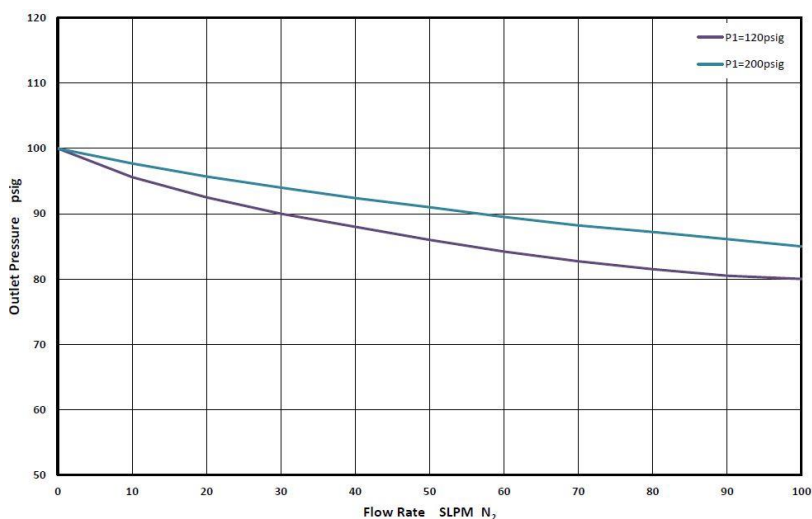
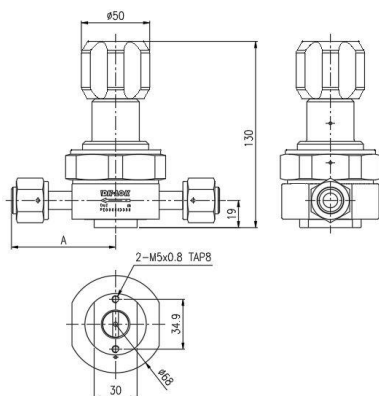
Seat	PFA:600 psig / PCTFE:1000 psig / PI:3500psig
Poppet	316L Stainless Steel / Hastelloy C-22
Poppet Spring	316L Stainless Steel / Inconel X750
Diaphragm	Hastelloy C-22
Body	316L Stainless Steel BA, EP (Electropolish)

Other Spec.

Flow Coefficient	Cv = 0.5
Inboard Helium Leak rate	$\leq 1 \times 10^{-9}$ atm.cc/sec
Operating Temperature	PCTFE:-26~80°C (-15~176°F) / PI:-26~177°C (-15~350°F)

Dimension & Flow Curve

Size	Con. Type	A ±0.5
1/2"	NF	30.5
	DK	58.2
	TW	47
	DM	71
	DF	71

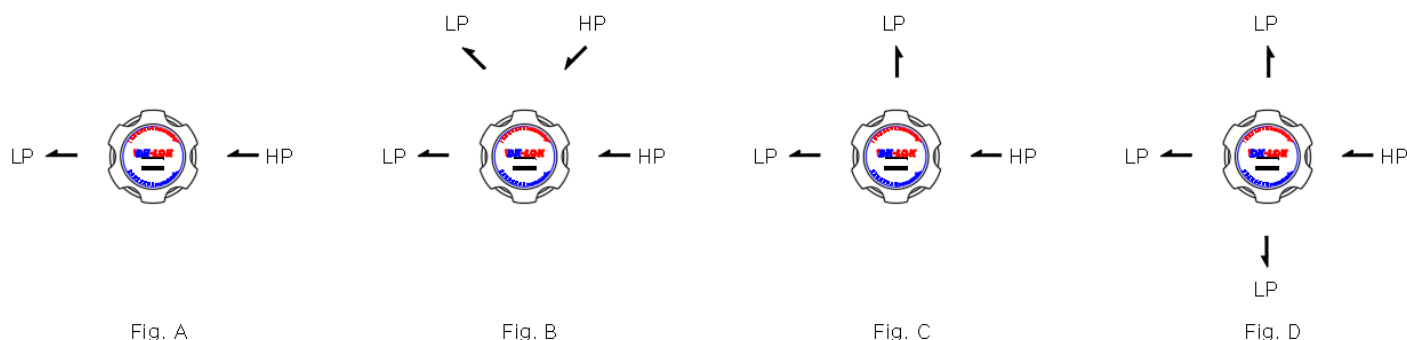


Ordering Information

URG	2	DF	-	3	1	B	2	3	-	SL	P	-	X
1	2	3		4	5	6	7	8		9	10		11

1.Product	Ultra High Purity Regulator Series URG2	
2. Connection Size	2 : 1/2”	
3. Connection Type	NF : Female NPT Thread DK : DK-Lok Type TW : Tube butt Weld	DM : DCR Male Type DF : DCR Female Type
4. Max Inlet Pressure	1 : 3500 psig 2 : 1000 psig	3 : 600psig
5. Max. Inlet Pressure Gauge	1 : 600 psig 2 : 1000 psig 3 : 3500 psig	4 : 4000 psig Blank : No Gauge
6. Gauge Port Type & Port Configurations	N : No Gauge(Fig.A) A : 1/4” DCR Female Swivel(Fig.B) B : 1/4” DCR Female Swivel(Fig.C) C : 1/4” DCR Female Swivel(Fig.D) D : 1/4” DCR Male Swivel(Fig.B) E : 1/4” DCR Male Swivel(Fig.C) F : 1/4” DCR Male Swivel(Fig.D)	G : 1/4” Female NPT Thread(Fig.B) H : 1/4” Female NPT Thread(Fig.C) I : 1/4” Female NPT Thread(Fig.D) J : 1/4” Internal Face Seal(Fig.B) K : 1/4” Internal Face Seal(Fig.C) L : 1/4” Internal Face Seal(Fig.D)
7. Outlet Pressure Range	1 : 0~30 psig 2 : 0~60 psig	3 : 0~100 psig 4 : 0~150 psig
8. Max. Outlet Pressure Gauge	1 : 30 psig 2 : 60 psig 3 : 100 psig	4 : 160 psig 5 : 200 psig Bland : No Gauge
9. Material .	SL : 316L Stainless Steel SLH : 316L Stainless Steel with Hastelloy internals	DL : 316L Stainless Steel VAR DLH : 316L Stainless Steel VAR with Hastelloy internals
10. Inner Surface Grade	B : BA (Ra 10μin) P : EP (Ra 5μin)	
11. User Option	Customization (STD : Blank)	

Port Configurations



Safe Valve Selection

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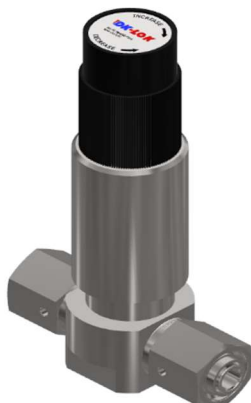
For International customers
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E-mail : dklok@dklok.com



Micro Regulators

UMRG4 Series

No.UMRG4-1
DEC.2021



Features

- All Internal surfaces are finished with 10Ra or 5Ra to ensure minimal Particle generation & moisture contribution.
- DK-LOK's own electropolished.
- Entrapment metal to metal seal provide enhanced leak tight integrity.
- Excellent stability of set pressure with accuracy, sensitivity.
- Hastelloy C-22 diaphragm material.
- PCTFE seat material with remarkable chemical & thermal resistance.

Specification

Pressure Rating

Maximum Inlet pressure	150 psig (10.3 bar)
Outlet Pressure Range	0~30 / 0~60 / 0~100 psig (0~2.1 / 0~4.1 / 0~6.9 bar)

Material in Contact

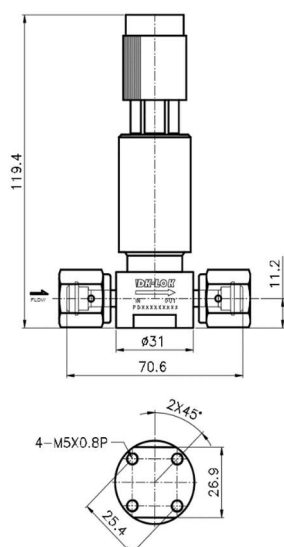
Seat	PCTFE
Poppet	Nickel Alloy (Hastelloy®)
Diaphragm	Nickel Alloy (Hastelloy®)
Body	Stainless Steel
Remaining Parts	316L VAR Stainless Steel

Other Spec.

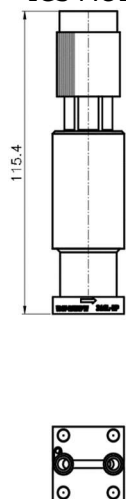
Flow Coefficient	Standard Cv = 0.04 (High Flow : Cv = 0.08)
Inboard Helium Leak rate	$\leq 1 \times 10^{-9}$ atm.cc/sec
Operating Temperature	-40~60°C (-40~140°F)

Dimension & Flow Curve

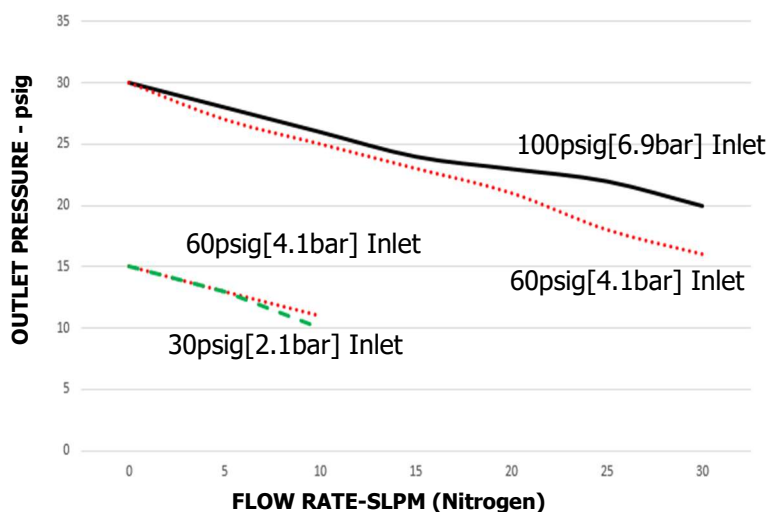
DCR MODEL



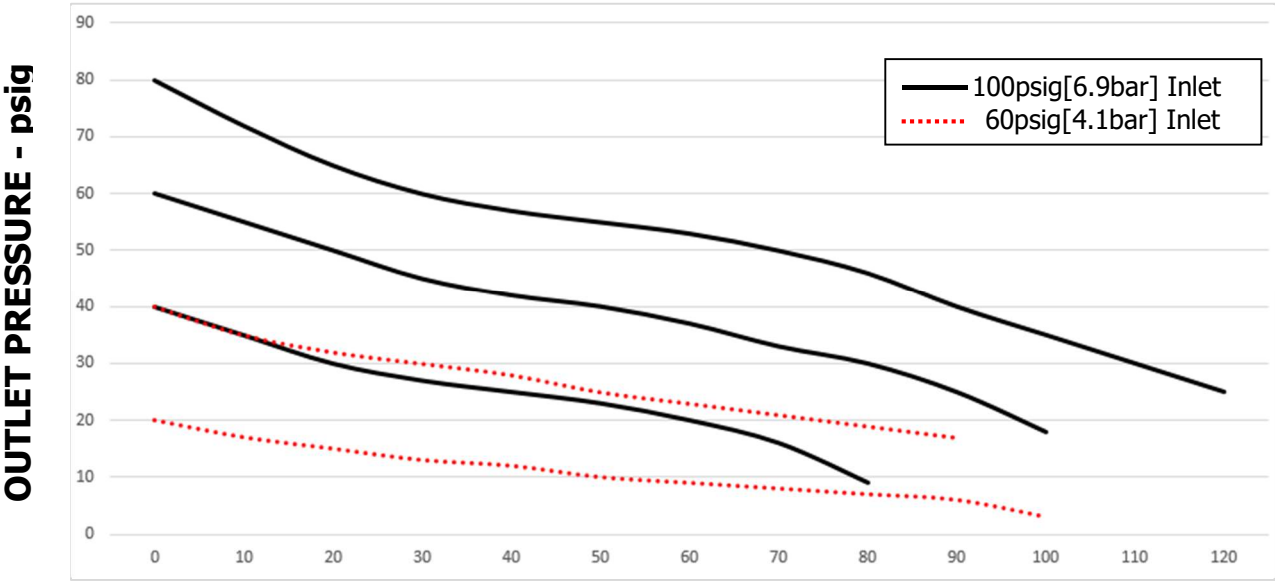
IGS MODEL



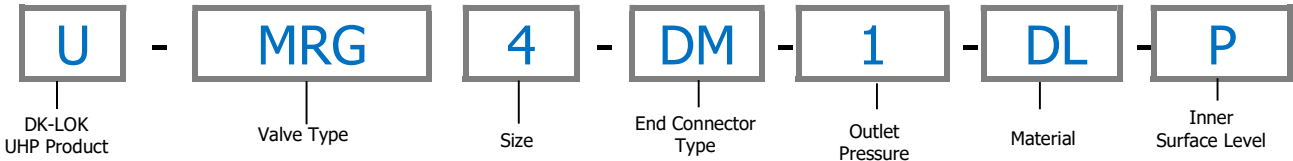
Standard Flow Model



HIGH Flow Model



FLOW RATE-SLPM (Nitrogen)



Valve Type	Size	End Connector Type	Outlet Pressure	Material	Surface Level
MRG : Standard Flow Model MRGHF : High Flow Model	4 : 1/4"	DM : DCR Male (70.6mm ETE)	1 : 0-30 psig(0-2.1bar)	DL : 316L Stainless Steel VAR	P : EP Grade
		DF : DCR Female (70.6mm ETE)	2 : 0-60 psig(0-4.1bar)		
		TW : Tube Butt Weld (50.8mm ETE)	3 : 0-100 psig(0-6.9bar)		
		IGS C15 : 1.50" C seal			
		IGS C11 : 1.125 C seal			
		IGS W15 : 1.5W seal			
		IGS W11 : 1.125W seal			

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Ultra High Purity Compact High Flow Regulators

URGHFS Series

No. URGHFS-1
FEB. 2025



Features

- Compact, high-flow design.
- Innovative gas-actuated pressure-sensing assembly.
- Excellent stability of set pressure with accuracy, sensitivity.
- Self-centering poppet.
- Tamper-free design.
- High-purity design.
- Choice of end connection/mounting styles.

Specification

Pressure Rating

Size	3B	4B
End Connection Size	1/4"	
Maximum Inlet pressure	1,000 psig (68.9 bar)	3,000 psig (206 bar)
Outlet Pressure Range	5 ~ 150 psig (0.35 ~ 10.3 bar)	
Preset Outlet Pressure	10 / 20 / 30 / 50 psig (0.68 / 1.3 / 2.0 / 3.4 bar), 80 psig (5.51 bar) Only 4B	

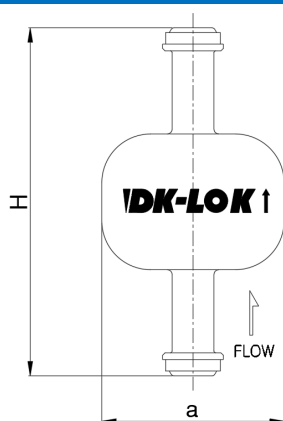
Material in Contact

Seat	PCTFE
Poppet	316L Stainless Steel VAR
Spring	316L Stainless Steel
Diaphragm (Bellows)	Hastelloy C-22
Body	316L Stainless Steel VAR

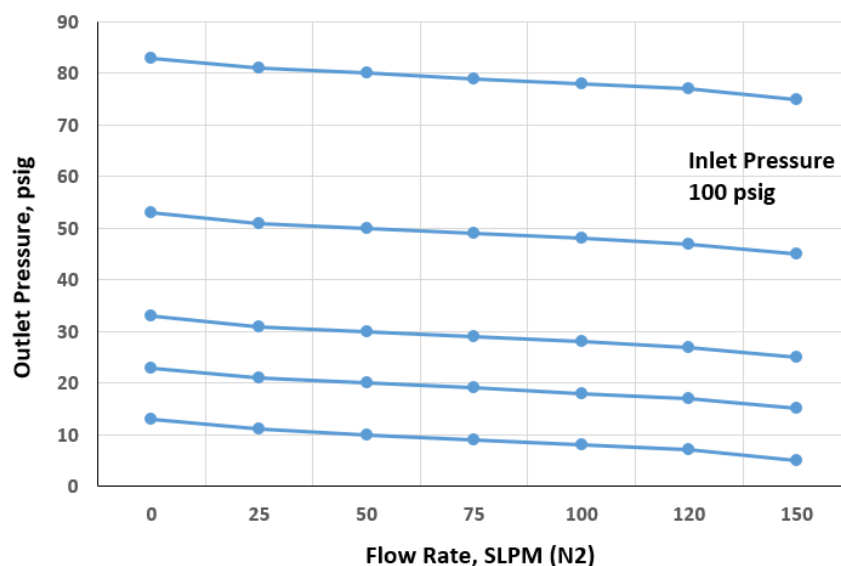
Other Spec.

Flow Coefficient	Cv = 0.2
Inboard Helium Leak rate	$\leq 1 \times 10^{-9}$ atm.cc/sec
Operating Temperature	-23 ~ 65 °C (-10 ~ 150 °F)

Dimension & Flow Curve



Size	H	a	End Connection
3B	72.8	Ø38.1	1/4"
4B	82.6	Ø51.8	



Ordering Information

URGHFS	3B	-	DMF	4	-	10	-	DL	P	-	X
1	2		3	4		5		6	7		8

1. Product	Ultra High Purity Compact High Flow Regulator		
2. Size	3B	4B	
3. End Connection Type (Inlet & Outlet, Split-Nut)	DMF: DCR Male Type & DCR Female Type DFM : DCR Female Type & DCR Male Type		
4. End Connection Size	4: 1/4"		
4. Preset Outlet Pressure	1: 10 psig		5: 50 psig
	2: 20 psig		8: 80 psig (Only 4B)
	3: 30 psig		
5. Material	DL: 316L Stainless Steel VAR		
6. Inner Surface Grade	P: EP (Ra 5μin)		
7. User Option	Blank: Standard		X000: Customization

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