



DIAPHRAGM VALVE

- 100% Helium Leak Test performed
- Assembling, testing & Packaging in cleanroom: Class ISO 4
- Reverse seat design for high life cycle
- Individual serial number for full traceability
- Electropolished surface roughness per SEMI F19 UHP Grade
- Fluid specific seat material as standard options
- Low internal volume
- UHP Material - Semi F20 option available
- Additional Multi-port options
- 270° multiturn handwheel with open/close indicator
- Loto option
- Pneumatic version available
- Indicative switch option

80RX

RX08 | HIGH PERFORMANCE UHP LINE VALVES

SPECIFICATIONS

Max. inlet pressure

See table next page

Pneumatic actuator opening pressure

5 to 7 bar (70 to 100 psig)*

Certified max. Helium outboard leak rate

$\leq 1 \times 10^{-9}$ mbar.l/s

Temperature range

See table next page

Nominal seat diameter

8 mm (0.31")

Certified max. Helium across the seat leak rate (at max. pressure)

$\leq 1 \times 10^{-9}$ mbar.l/s

Wetted volume

$< 1.6 \text{ cm}^3$

Flow capacity (Cv)

0.5

Certified max. Helium inboard leak rate (at max. pressure)

$\leq 1 \times 10^{-9}$ mbar.l/s

Burst pressure

$> 700 \text{ bar}$ (10,150 psig)

CONSTRUCTION MATERIAL

	Parts	Material
Wetted parts	Body	SS 316L, UHP Material - Semi F20
	Seat	PCTFE, Polyimid
	Diaphragm	Phynox®
Non-wetted parts	Backup diaphragm	Phynox®
	Handwheel	Aluminium (QT) or Plastic (MT)
	Actuator Body	SS 316L or Aluminium
	Others	Stainless Steel, Alloys, brass

SURFACE FINISH

S	Ra 0.4 μm (15 μin)
V	Ra 0.25 μm EP (10 μin)

VALVE VERSION / MAX. WORKING PRESSURE

Valve	Max. working pressure
RX08 (LM) Multiturn handwheel ^{1 2}	20 bar
RX08 (HM) Multiturn handwheel ^{1 2}	240 bar
RX08 (LQ) Quarter turn handwheel ¹	20 bar
RX08 (HQ) Quarter turn handwheel ¹	240 bar
RX08 (LP) Pneumatically actuated	20 bar
RX08 (HP) Pneumatically actuated ³	240 bar

¹ FT (Panel Mounting) option available

² MSF LOTO option available

³ Position indication switch available

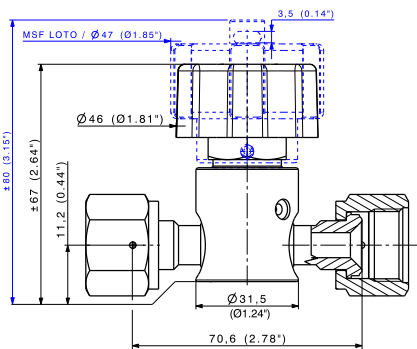
TEMPERATURE RANGE

Seat (Actuation type)	Temperature Range
PCTFE (manual & pneumatic*)	-40°C to +65°C (-40°F to +149°F)
Polyimid (manual & pneumatic*)	-40°C to +150°C (-40°F to +302°F)
*-20C° pneumatic versions	

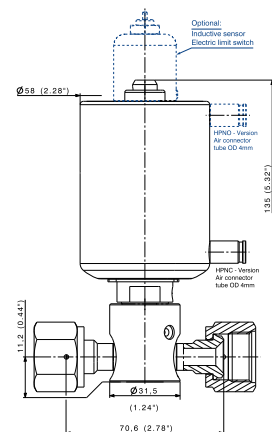
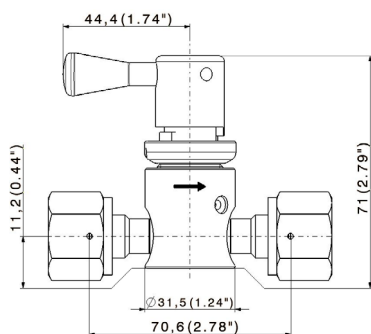
SCAN ME FOR FLOW
CURVES & PRODUCT
CONFIGURATOR



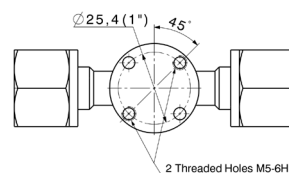
RX08 - MULTI-TURN VALVE (LM, HM, MSF)



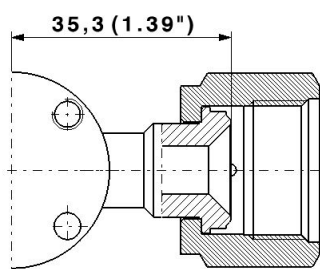
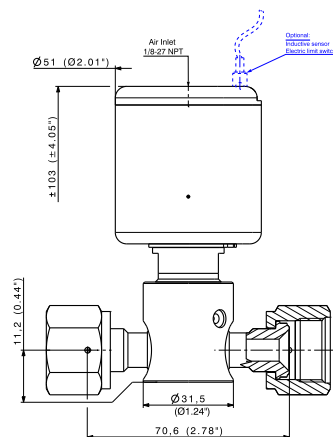
**RX08 - QUARTER TURN
VALVE (LQ, HQ)**



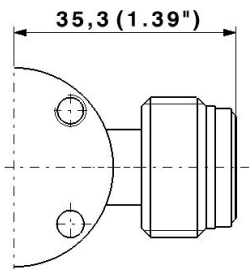
RX08 - BOTTOM VIEW



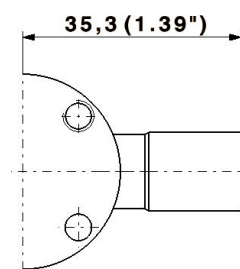
RX08 - PNEUMATIC VALVE (LPNC, LPNO)



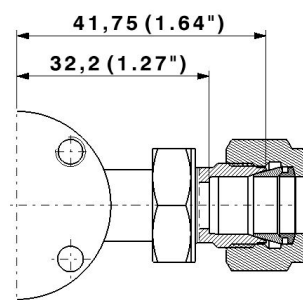
Female (face seal)
Swivel



Male (face seal)
non-Swivel



BWO for
micro-welding head



Compression tube fittings



OPEN/CLOSE INDICATOR

Green - Open
Red - Closed

PRODUCT CONFIGURATOR

	Surface Finish		Max. Delivery Pressure		Porting Configuration ¹		Body Material		Seat Material		End Connection		Options	
RX08	S		BP		2W1		-		K		A/B: B3/8			
	Ra 0.4 μm (15 μin)	S	Multi-Turn Handwheel (20bar)	LM	2W1	2W1	SS 316L	-	PCTFE (Kel-F®)	K	Metal face seal 3/8" - Female	V 3/8 F	Panel Mounting	FT
	Ra 0.25 μm EP (10 μin)	V	Multi-Turn Handwheel (240bar)	HM	2W2	2W2	UHP Material - Semi F20**	A	Polyimid	V	Metal face seal 3/8" - Male non-Swiel	V 3/8 M	Electric limit switch***	CI
			Pneumatically actuated (20 bar)	LP*	3W4	3W4					BWO ½"	B ½	LOTO	MSF
			Pneumatically actuated (240 bar)	HP*	3W5	3W5					BWO 3/8" mm	B 3/8	Constant bleed	FPT
			Quarter-Turn Handwheel (20 bar)	LQ	3W6	3W6					BWO 10 mm	B 10		
			Quarter-Turn Handwheel (240 bar)	HQ	3W8	3W8					BWO 12 mm	B 12		
					3W9	3W9					Compression tube fittings	RDB 3/8		
					4W10	4W10					Compression tube fittings	RDB ½		
					4W11	4W11					Compression tube fittings	RDB 10		
											Compression tube fittings	RDB 12		

¹ Check configurations here

* Add NO for normally open or NC for normally closed

** On demand

*** On HP and LP actuators only

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