ROTAREX
VALVES - REGULATORS - SYSTEMS

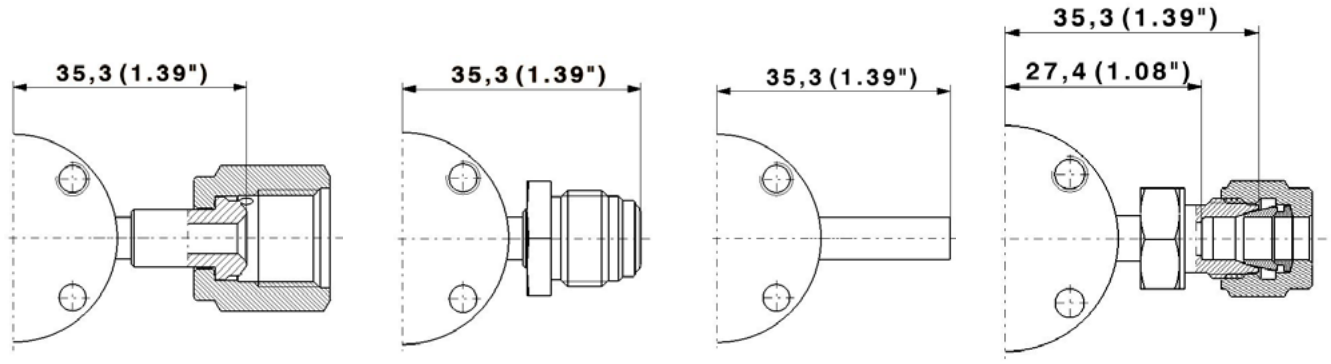
RX04



DIAPHRAGM VALVE

- 100% Helium Leak Test performed
- Assembling, testing & Packaging in clean-room: 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
- Constant bleed option available
- 316L VAR® stainless steel double melt per SEMI F20 option available
- Additional Multi-port options
- 270° multiturn handwheel with open/close indicator

RX04 | HIGH PERFORMANCE UHP LINE VALVES



SPECIFICATIONS

Max. inlet pressure
See table next page

Temperature range
See table next page

Wetted volume
< 1.2 cm^3

Burst pressure
> 700 bar (10152 psig)

Pneumatic actuator opening pressure
5 to 7 bar (73 to 102 psig)*

Nominal seat diameter
4 mm (0,16")

Flow capacity (Cv)
0.2

Certified max. Helium outboard leak rate
≤ 1 x 10^{-9} mbar.l/s

Certified max. Helium across the seat leak rate (at max. pressure)
≤ 1 x 10^{-9} mbar.l/s

Certified max. Helium inboard leak rate (at max. pressure)
≤ 1 x 10^{-9} mbar.l/s

CONSTRUCTION MATERIAL

	Parts	Material
Wetted parts	Body	SS 316L, VAR
	Seat	PCTFE, PVDF, VESPEL®
	Diaphragm	Phynox®
Non-wetted parts	Backup diaphragm	Phynox®
	Handwheel	Aluminium (QT) or Plastic (MT)
	Actuator Body	SS 316L or Aluminium
	Others	Stainless Steel and Alloys

SURFACE FINISH

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

SCAN ME FOR FLOW CURVES & PRODUCT CONFIGURATOR

VALVE VERSION / MAX. WORKING PRESSURE

Valve	Max. working pressure
RX04 (LM) Multiturn handwheel[1] [2]	20 bar
RX04 (MH) Multiturn handwheel[1] [2]	240 bar
RX04 (LQ) Quarter turn handwheel[1]	20 bar
RX04 (HQ) Quarter turn handwheel[1]	240 bar
RX04 (BP*) Pneumatically actuated	10 bar
RX04 (LP*) Pneumatically actuated[3]	20 bar
RX04 (HP*) Pneumatically actuated[3]	240 bar

[1] FT (Panel Mounting) option available
[2] MSF LOTO option available
[3] Position indication switch available

PNEUMATIC ACTUATION

Parts	
Actuator Body	Aluminium / Stainless Steel
Piston	Brass / Aluminium / Stainless Steel
O-ring	NBR
All others	Stainless Steel

MANUAL ACTUATION

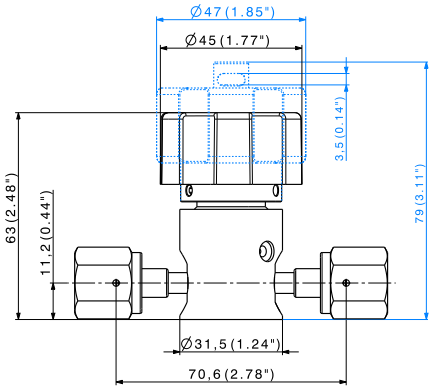
Parts for all valve grades	
Upper spindle	Brass
Handle	Aluminium (QT) or Plastic (MT)
All others	Stainless Steel

TEMPERATURE RANGE

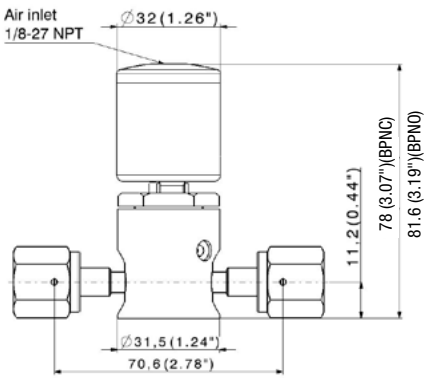
Seat (Actuation type)	Temperature Range
PCTFE / PVDF (manual & pneumatic*)	-40°C to +65°C (-40°F to +149°F)
Vespel® (manual & pneumatic*)	-40°C to +150°C (-40°F to +302°F)

*-20C° pneumatic versions

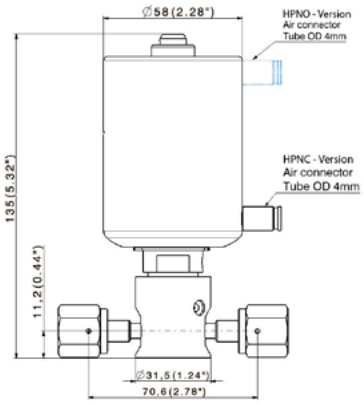
RX04 - MULTI-TURN VALVE (HM, LM, MSF) WITH OPEN/CLOSE WINDOW



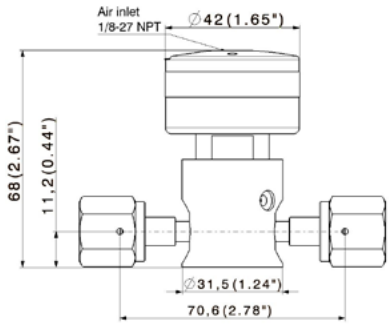
RX04 - PNEUMATIC VALVE LOW PRESSURE (BPNC, BPNO)



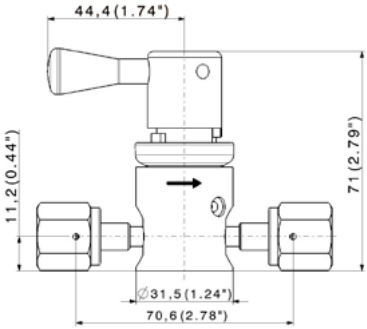
RX04 - PNEUMATIC VALVE HIGH PRESSURE (HPNC, HPNO)



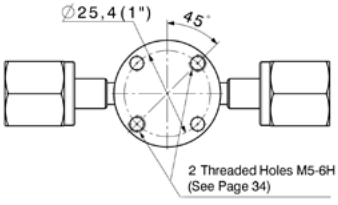
RX04 - PNEUMATIC VALVE MEDIUM PRESSURE (LPNC, LPNO)



RX04 - QUARTER-TURN VALVE (LQ, HQ)



RX04 - BOTTOM VIEW



All specifications and dimensions are subject to change without notice

PRODUCT CONFIGURATOR

	Surface Finish		Max. Delivery Pressure		Porting Configuration[1]		Body Material		Seat Material		End Connection		Options	
RX04	S		LM		2W1		-		K		A/B: B¼			
	Ra 0.4 µm (15 µin)	S	Multi-Turn Handwheel (20bar)	LM	2W1	2W1	SS 316L	-	PCTFE (Kel-F®)	K	Metal face seal ¼" - Female	V ¼ F	Panel Mounting	FT
	Ra 0.25 µm EP (10 µin)	V	Multi-Turn Handwheel (240bar)	HM	2W2	2W2	VAR**	A	PI (Vespel®)	V	Metal face seal ¼" - Male	V ¼ M	Electric limit switch***	CI
			Pneumatically actuated (10 bar)	BP*	3W4	3W4	Monel**	M	PVDF	P	BWO ¼"	B ¼	LOTO	MSF
			Pneumatically actuated (20 bar)	LP*	3W5	3W5	Hastelloy®**	H			BWO 6 mm	B6	Constant bleed	FPT
			Pneumatically actuated (240 bar)	HP*	3W6	3W6					Compression tube fittings	RDB ¼		
			Quarter-Turn Handwheel (20 bar)	LQ	3W8	3W8					Compression tube fittings	RDB 6		
			Quarter-Turn Handwheel (240 bar)	HQ	3W9	3W9								
					4W10	4W10								
					4W11	4W11								

[1] Check configurations here
* Add NO for normally open or NC for normally closed
** On demand
*** On HP and LP actuators only

WORLDWIDE HEADQUARTERS

ROTAREX
VALVES - REGULATORS - SYSTEMS



Find out our 24 locations here
https://rotarex.com/locations

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