RIBER HEATED VIEWPORT RHVP SERIES

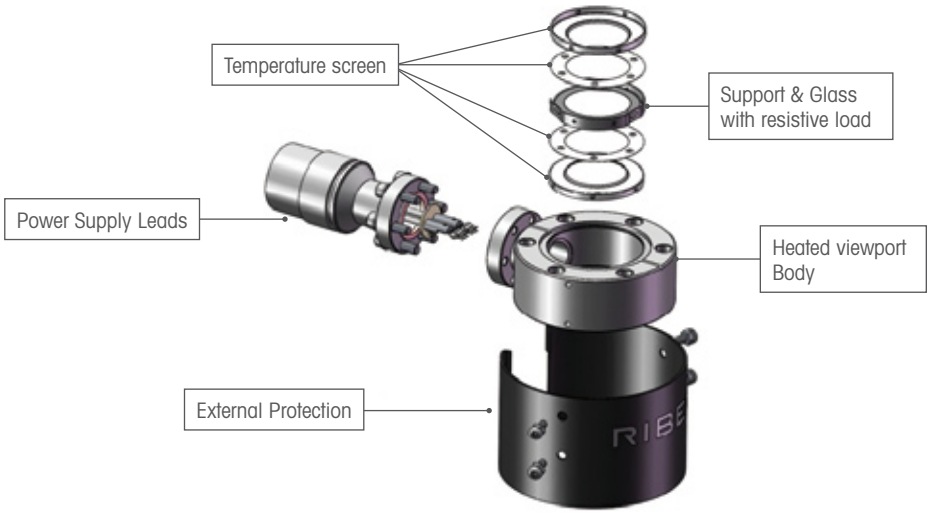
KEEP YOUR VIEWPORT CLEAN

- Control unit with ability to manage 1 to 6 windows simultaneously
- Prevents condensation of materials on the viewport
- Available on CF40 or CF63
- Single power supply for two viewports
- 3 temperature range, fully automatic
- Constant visual access inside the growth chamber

The RIBER Heated ViewPort guarantees a **constant monitoring** of your chamber in metal atmosphere. The **3 ranges of temperature** allow the viewport to be **used in different MBE systems** (III-V, II-VI, etc.) The Heated Viewport **prevents deposition** on your viewports and avoids having to vent the system for removing or cleaning them.
The RHVP **prevents your optical ports from deposition** and **enables continuous, in-situ monitoring of your crystal growth**.

SPECIFICATIONS

LAYOUT

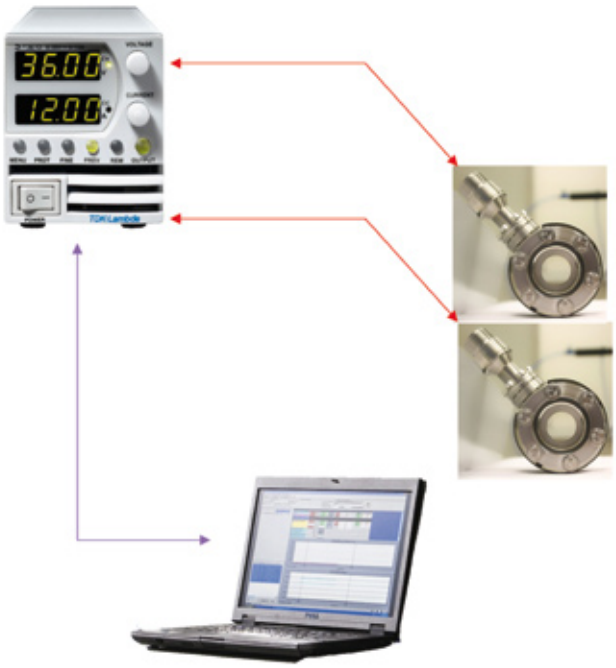


CHARACTERISTICS

VIEWPORT CHARACTERISTICS	RHVP-40	RHVP-63
Flange	Two Sides CF 40 (2.75")	Two Sides CF63 (4.5")
Transmittance* >90% (nm)	270 - 2500	
Viewing diameter (mm)	Ø26	Ø54
Maximum continuous operating temperature	450°C	
Quartz birefringence	+0.009	
Max viewport temp. @ Max RHVP temp.	<110°C	<150°C
Typical Operating in III-V	200°C	
Bakeable at 250°C	Yes	Yes
Typical heating speed (W/min)	10	
ELECTRICAL SPECIFICATIONS		
Electrical requirements	85-265VAC	85-265VAC
Max power	120W	180W
OPTIONS		
Viewport	Glass / Fused Quartz	
Cable	8 or 11m	
Power supply	DC36V - 6/12/18 or 24 A	

* The transmittance is measured without viewport

OPERATING THE VIEWPORT



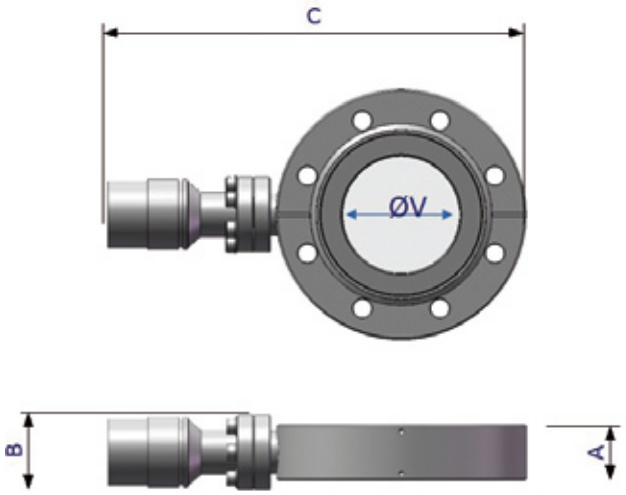
Different power supplies are offered with the RHVP products. The DC36V-24A can power up to four heated viewports of different sizes. Each heated viewport is connected in parallel and powered up at the same temperature.

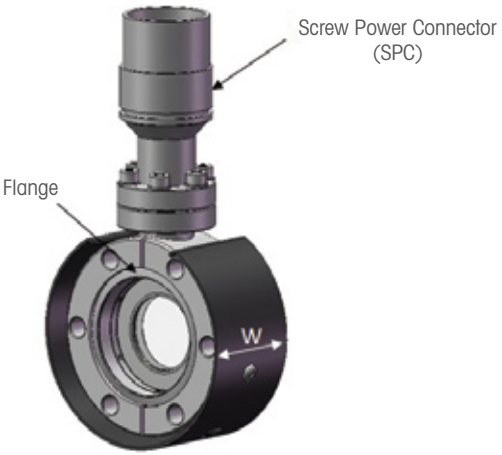
The RHVP are powered up automatically by the power supply. 3 preset recipes are programmed in the power supplies to cove different applications. Automatic Warm up or cool down insurances a safe and fast heating.

Note that the power supplies can be controlled by the supervisor (Crystal or other) through a modbus communication port.

ORDERING INFORMATION

HEATED VIEWPORTS





MODEL	TRANSMITTANCE (>90%)	P.N.	FLANGE	ØV	A	B	C	W
RHVP 40	270 – 2500 nm	R241 294 3	CF40 (2.75")	26	24	34	145	77
RHVP 63	270 – 2500 nm	R241 315 3	CF63 (4.5")	54	25	34	190	124

ORDERING INFORMATION

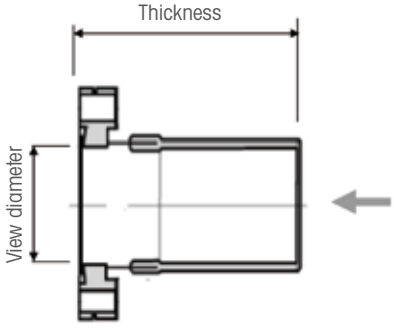
CABLES & POWER SUPPLIES

PRODUCT	BAKEABLE	RHVP SIDE	LENGTH	MAX AMPS	P.S. SIDE	P.N.
BK-WLT-Ø8-8-32-SPC-2	BK	SPC-2	8	32	WLT-Ø8	R252 367 2
BK-WLT-Ø8-11-32-SPC-2	BK	SPC-2	11	32	WLT-Ø8	R252 367 3

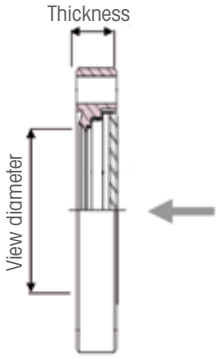
MODEL	P.N.	VIEWPORT	WIDTH/ HEIGHT	MAX. O.P.	INPUT POWER	OUTPUT CONNECTOR	COMMUNICATION
DC 36V 6A	R461 225 37 A	1	1/6 19"- 2U	216	85-265VAC	Wire Terminal Lug	Built in RS232-RS485-USB
DC 36V 12A	R461 225 43 G	up to 2	1/6 19"- 2U	432	85-265 VAC	Wire Terminal Lug	Built in RS232-RS485-USB
DC 36V 18A	R461 225 48 M	up to 3	1/6 19"- 2U	648	85-265 VAC	Wire Terminal Lug	Built in RS232-RS485-USB
DC 36V 24A	R461 225 49 N	up to 4	1/6 19"- 2U	864	85-265 VAC	Wire Terminal Lug	Built in RS232-RS485-USB

VIEWPORTS

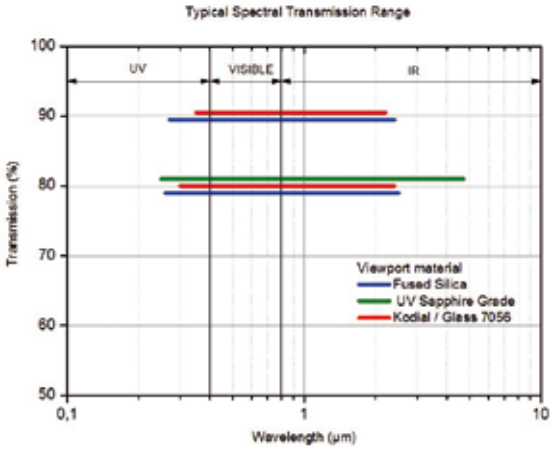
MODEL	JAUGE	MATERIAL	P.N.	TRANSMISSION RANGE (90% Transmittance)	THICK.	VIEW	MAX TEMP.	BAKEABLE
RVP	40	Glass	R240 035 81 G	350-2500 nm	13.0	Ø37	250°C	Yes
RVP	63	Glass	R240 036 01 D	350-2500 nm	17.5	Ø63	250°C	Yes
RVP	40	Fused Quartz	R635 400 24 B	270-2500 nm	12,7	Ø38	200°C	No
RVP	63	Fused Quartz	R635 400 50 E	270-2500 nm	17.3	Ø68	200°C	No
RVPEXT	40	Fuser Quartz	R658 000 00 X	270-2500 nm	90.0	Ø38	400°C	Yes
RVPEXT	63	Fuser Quartz	R658 000 01 Y	270-2500 nm	95.0	Ø50	400°C	Yes



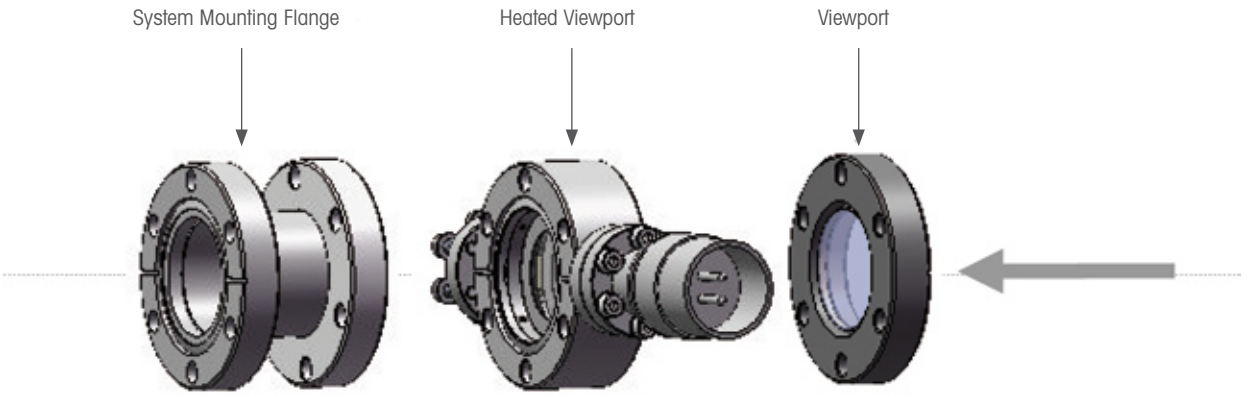
Model : RVPEXT



Model : RVP
(Zero Length)



ORDERING INFORMATION



STANDARD CONFIGURATION

STUDS & NUTS

HEATED VIEWPORT MODEL		P.N.	STUD KIT / P.N.	STUD LENGTH (mm)
RHVP	40	R241 294 3	R241 334	M6x70
RHVP	63	R241 315 3	R241 334	M8x80

TECHNOLOGICAL LEADERSHIP

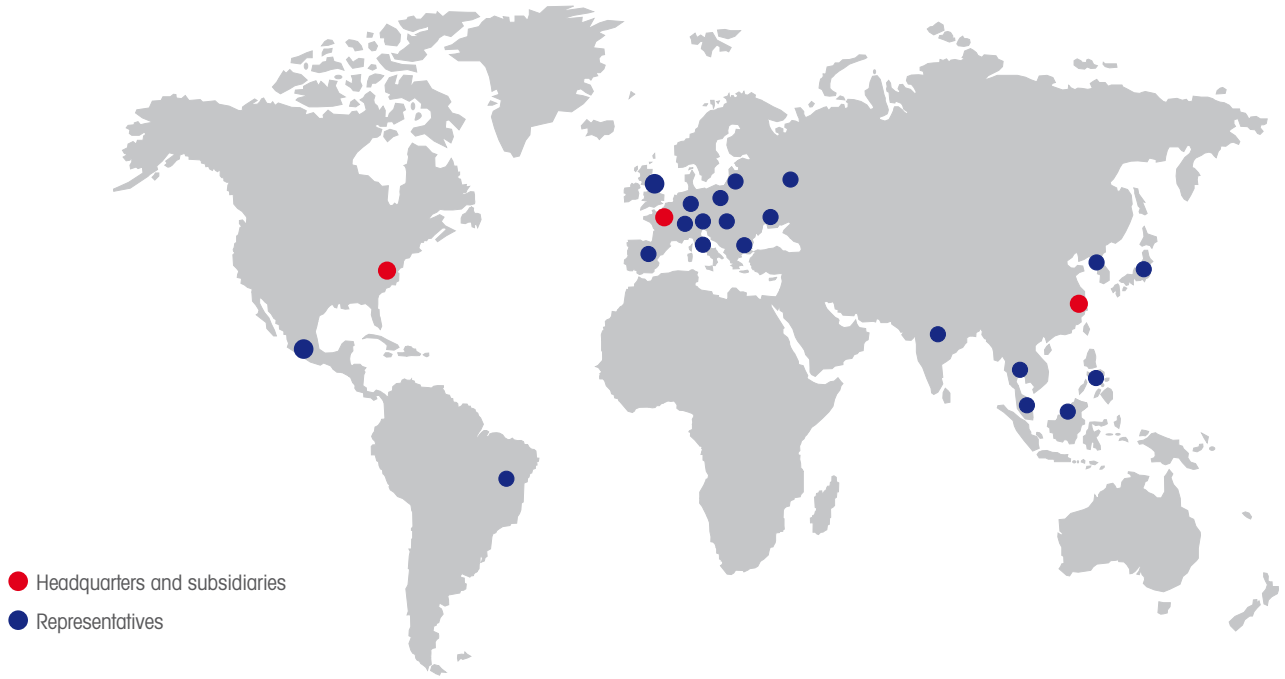
Riber is the world leading supplier of MBE processing equipment and related services.

In total, 850 of our MBE systems have been installed with at least one system in each of the 35 countries with which MBE is involved. This represents 75% of the global market.

Capitalizing on more than 30 years of experience, the company's core philosophy is to design systems in close association with customers. Riber has invented and designed major features which are now found in all MBE systems.

Riber plays a key role in the development of MBE technology, providing customers with solutions from equipment to epitaxial growth.

WORLDWIDE PRESENCE



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