

P-VIP Replacement Lamps Advantages

- Supreme efficiency P-VIP® and VIP® lamps
- Highest quality meeting the strict quality demands of the CE and IT industries
- From leading player in the market



P-VIP® Technical Aspects

Technology
Discharge lamps with Mercury-halogen gas

■ Lamp power 100 – 250 W AC

Lumen yield > 60 lm / W

Pressure cold lamp: 100 mbar

hot lamp: up to 250 bar

■ Burner temperature operating: up to 1200 °C

typical cool down < 5 min.

Pre-materials

Burner Glass: ultra pure quartz glass

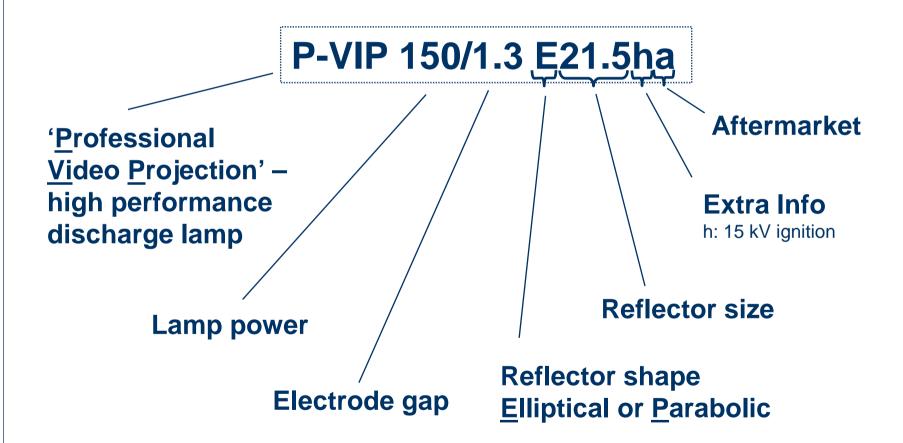
Electrodes: Tungsten

Reflector
Glass, coated with dichroic mirror

a) Valid for P-VIP and VIP R lamps

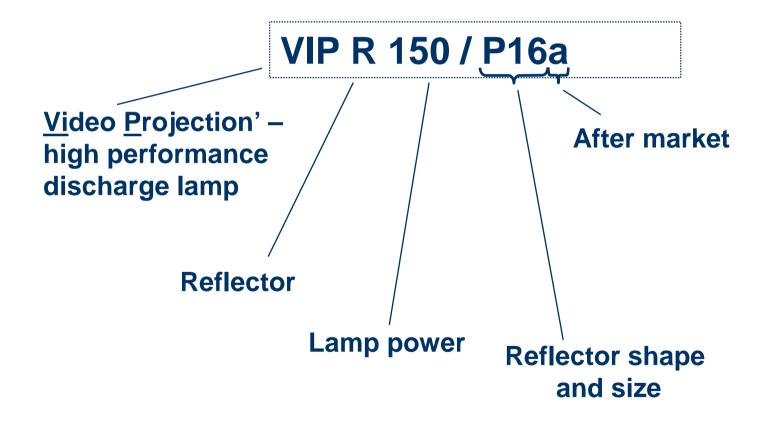


P-VIP® Lamp Naming





P-VIP® Lamp Naming





Lamp P-VIP 100-120/1.0 E19.8

Category

Reflector

Arc gap

Rated power

Ignition

Light output typ.^a

Average Life time^b

Environmental

RP

E19.8 – elliptic

1.0 mm

100 – 120 W

15-18 kV

4,200 lm @ 120 W

> 6,000 h @ 120 W





a) observed in working distance through \varnothing 10mm round aperture

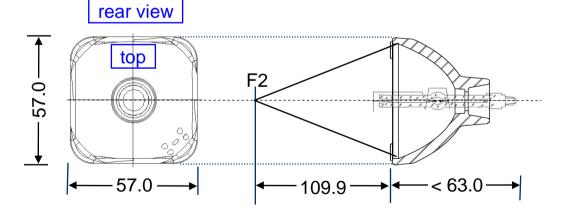
b) when operated on OSRAM lamp driver PT VIP 2AC/380 O1

Lamp P-VIP 100-120/1.0 E19.8

Contour	E19.8 – elliptic
working distance	109.9 mm
Reflector glass	borosilicate

Lamp design	
front glass	no
air inlets	burner extends over reflector rim
location contact 1 ^a	central at base
location contact 2 ^a	04:30 oʻclock

dimensions in mm





Lamp P-VIP 250/1.3 P22a

Category

■ Reflector P22 – parabolic

FP

■ Arc gap 1.3 mm

■ Power range 250 W

■ Ignition 5 kV

■ Light output typ.^a 7300 lm @ 250 W

■ Average Life time^b > 1,500 h @ 250 W

Environmental Complies RoHS





a) observed in 2400 mm distance through \varnothing 160 mm aperture

b) when operated on OSRAM lamp driver PT VIP 4AC O1 (250W)

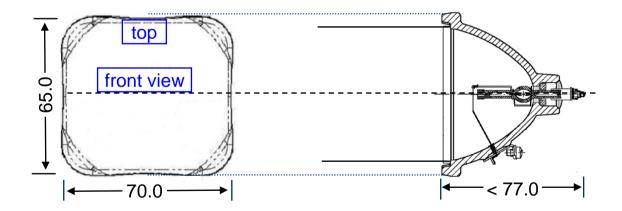
Lamp P-VIP 250/1.3 P22a

Contour	P22 – parabolic
working distance	infinite
Reflector glass	crystallized

Lamp design	
front glass	yes
air inlets	4x, on all four sides
location contact 1 ^a	04:00 oʻclock
location contact 2 ^a	08:00 oʻclock

a) viewed from front

dimensions in mm



OSRAM OSRAM

Lamp P-VIP 200/1.3 P22.5a

CategoryFP

■ Reflector P22.5 – parabolic

Arc gap1.3 mm

■ Power range 200 W

■ Ignition 5 kV

■ Light output typ.a 8000 lm @ 200 W

Average Life time^b >1,500 h @ 200 W

Environmental Complies RoHS





a) observed in 900 mm distance through \varnothing 95 mm aperture

b) when operated on OSRAM lamp driver PT VIP 200AC/380 O1

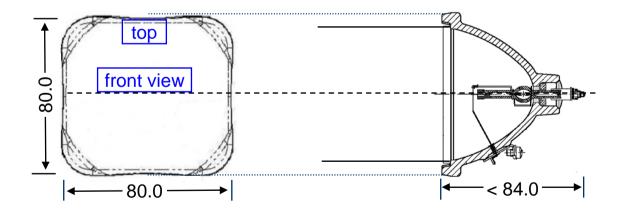
Lamp P-VIP 200/1.3 P22.5a

Contour	P22.5 – parabolic
working distance	infinite
Reflector glass	crystallized

Lamp design	
front glass	yes
air inlets	4x, on all four sides
location contact 1 ^a	04:30 oʻclock
location contact 2a	07:30 oʻclock

a) viewed from front

dimensions in mm



OSRAM OSRAM

Lamp P-VIP 120-132/1.0 E22ha

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

E22 – elliptic

1.0 mm

120 - 132 W

15 – 18 kV

5,900 lm @ 132 W

> 6,000 h @ 132 W





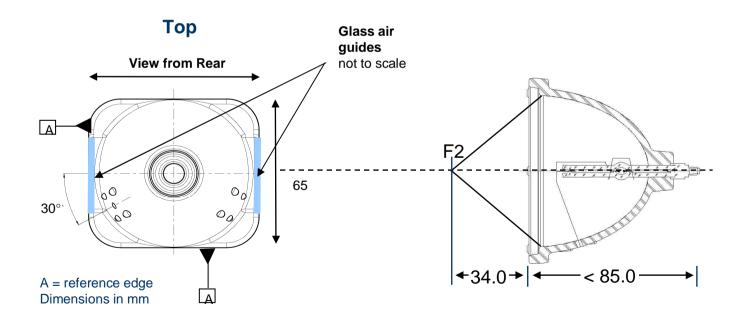
a) observed in working distance through \varnothing 6 mm aperture

b) when operated on OSRAM lamp driver PT VIP 01 RP

Lamp P-VIP 120-132/1.0 E22ha

Contour	E22 – elliptic
working distance	34.0 mm
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	tooled air gaps
location contact 1a	central at base
location contact 2a	04:00 oʻclock



EASYLAMP



Lamp P-VIP 100-120/1.3 E23a

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

E23 – elliptic

1.3 mm

100 - 120 W

 $5 - 7 \, kV$

5,200 lm @ 120 W

> 6,000 h @ 120 W





a) observed in working distance through \varnothing 6 mm aperture

b) when operated on OSRAM lamp driver PT VIP 2AC/380 O1

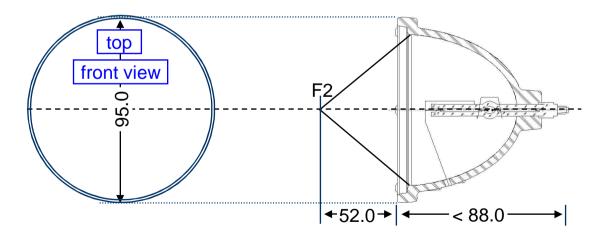
Lamp P-VIP 100-120/1.3 E23a

Contour	E23 – elliptic
working distance	52.0 mm
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	no, lamp closed
location contact 1a	central at base
location contact 2a	03:00 oʻclock

a) viewed from front

dimensions in mm





Lamp P-VIP 132-150/1.0 E22ha

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

E22 – elliptic

1.0 mm

132 - 150 W

15 – 18 kV

6,500 lm @ 150 W

6,000 h @ 150 W





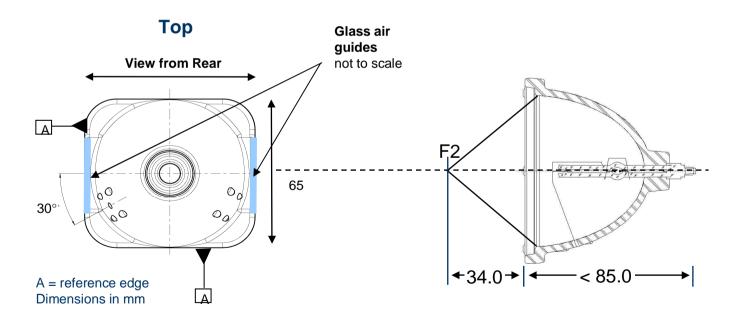
a) observed in working distance through \varnothing 6 mm aperture

b) when operated on OSRAM lamp driver PT VIP 01 RP

Lamp P-VIP 132-150/1.0 E22ha

Contour	E22 – elliptic
working distance	34.0 mm
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	tooled air gaps
location contact 1a	central at base
location contact 2a	04:00 oʻclock



EASYLAMP



Lamp P-VIP 132-150/1.0 E23ha

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

E23 – elliptic

1.0 mm

132 - 150 W

15 – 18 kV

6,500 lm @ 150 W

6,000 h @ 150 W





a) observed in working distance through \varnothing 6 mm aperture

b) when operated on OSRAM lamp driver PT VIP O1RP

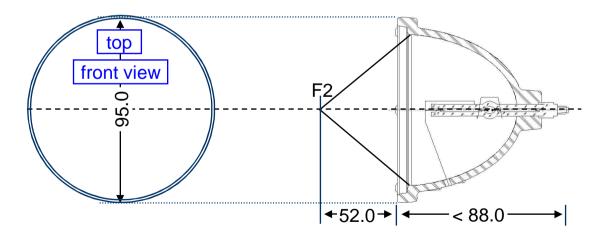
Lamp P-VIP 100-120/1.0 E23ha

Contour	E23 – elliptic
working distance	52.0 mm
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	no, lamp closed
location contact 1a	central at base
location contact 2a	03:00 oʻclock

a) viewed from front

dimensions in mm





Lamp P-VIP 100-120/1.3 P23a

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

P23 – parabolic

1.3 mm

100 - 120 W

15 – 18 kV

4,400 lm @ 120 W

6,000 h @ 120 W





a) observed in 900 mm distance through \varnothing 95 mm aperture

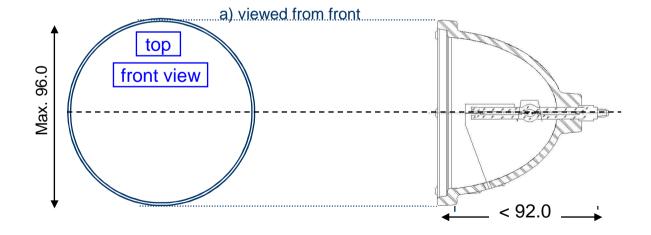
b) when operated on OSRAM lamp driver PT VIP 2AC/380 O1

Lamp P-VIP 100-120/1.3 P23a

Contour	P23 – parabolic
working distance	infinite
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	no
location contact 1a	central at base
location contact 2a	04:30 oʻclock

dimensions in mm





Lamp P-VIP 200/1.0 E17.5a

CategoryFP

■ Reflector E17.5 – elliptic

■ Arc gap 1.0 mm

Rated power 200 W

■ Ignition 16 kV

■ Light output typ.a 6,300 lm @ 200 W

Average Life time^b 2,000 h @ 200 W

Environmental Complies RoHS





a) observed in working distance through 5.0 x 3.8 mm² rectangular aperture

b) when operated on OSRAM lamp driver PT VIP 3 AC/380 O3

Lamp P-VIP 200/1.0 E17.5a

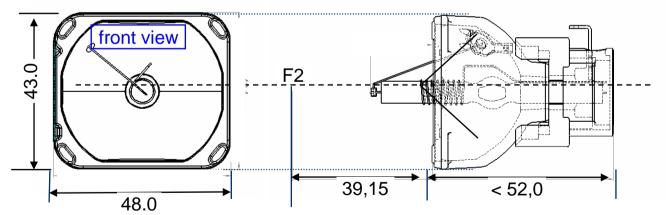
Contour	E17.5 – elliptic
working distance	39.15 mm
Reflector glass	borosilicate

Lamp design	
front glass	no
air inletsa	no
location contact 1a	Side at base
location contact 2a	10:30 oʻclock

top

a) viewed from front

dimensions in mm





Lamp P-VIP 250/1.3 E21.8a

Category

Reflector

Arc gap

Rated power

Ignition

Light output typ.^a

Average Life time^b

Environmental

FP

E21.8 – elliptical

1.3 mm

250 W

5 kV

8.600 lm @ 250 W

> 2,000 h @ 250 W





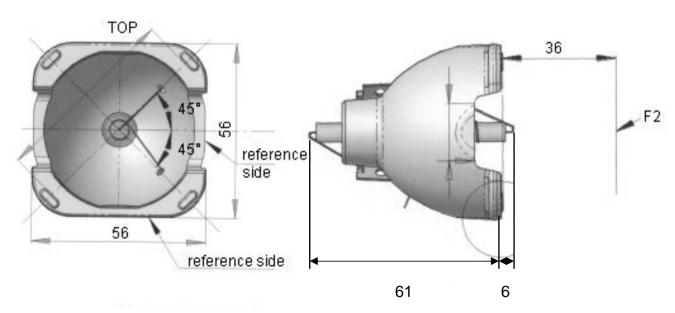
a) observed in working distance through 5.0 x 3.8 mm² rectangular aperture

b) when operated on OSRAM lamp driver PT VIP 5AC/380 O4

Lamp P-VIP 250/1.3 E21.8a

Contour	E21.82 – elliptical
working distance	36.0 mm
Reflector glass	Cristalized
Lamp lenght	67 mm

Lamp design	
front glass	yes
air inlets	air gaps
location contact 1 ^a	central at base
location contact 2 ^a	04:00 oʻclock





Lamp P-VIP 100-120/1.0 E23ha

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

E23 – elliptic

1.3 mm

100 - 120 W

15 – 18 kV

5,200 lm @ 120 W

> 6,000 h @ 120 W





a) observed in working distance through \varnothing 6 mm aperture

b) when operated on OSRAM lamp driver PT VIP 2AC/380 O1

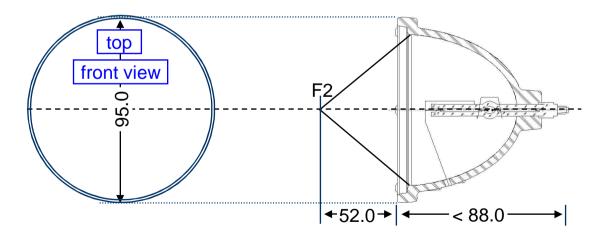
Lamp P-VIP 100-120/1.0 E23ha

Contour	E23 – elliptic
working distance	52.0 mm
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	no, lamp closed
location contact 1a	central at base
location contact 2a	03:00 oʻclock

a) viewed from front

dimensions in mm





Lamp P-VIP 100-120/1.0 E22ha

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

E22 – elliptic

1.0 mm

100 - 120 W

15 – 18 kV

5,200 lm @ 120 W

> 6,000 h @ 120 W





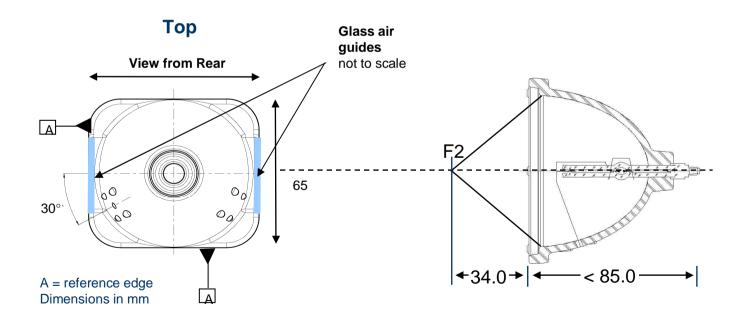
a) observed in working distance through \varnothing 6 mm aperture

b) when operated on OSRAM lamp driver PT VIP 01 RP

Lamp P-VIP 100-120/1.0 E22ha

Contour	E22 – elliptic
working distance	34.0 mm
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	tooled air gaps
location contact 1a	central at base
location contact 2ª	04:00 oʻclock



EASYLAMP



Lamp P-VIP 150/1.0 P21.5a

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

FP

P21.5 – parabolic

1.0 mm

150 W

5 kV

5,300 lm @ 150 W

1,500 h @ 150 W





a) observed in 900 mm distance through \varnothing 95 mm aperture

b) when operated on OSRAM lamp driver PT VIP 150AC/380 O1

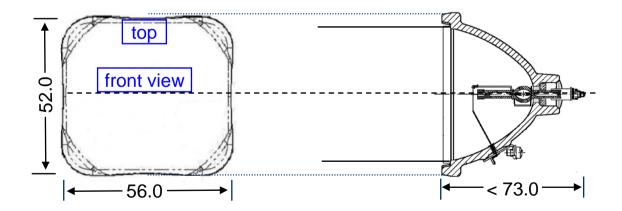
Lamp P-VIP 150/1.0 P21.5a

Contour	P21.5 – parabolic
working distance	infinite
Reflector glass	crystallized

Lamp design	
front glass	yes
air inlets	4 x, on all four sides
location contact 1a	04:30 oʻclock
location contact 2a	07:30 oʻclock

a) viewed from front

dimensions in mm



OSRAM OSRAM

Lamp P-VIP 100-120/1.3 E23ha

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

E23 – elliptic

1.3 mm

100 - 120 W

15 – 18 kV

5,200 lm @ 120 W

> 6,000 h @ 120 W





a) observed in working distance through \varnothing 6 mm aperture

b) when operated on OSRAM lamp driver PT VIP 2AC/380 O1

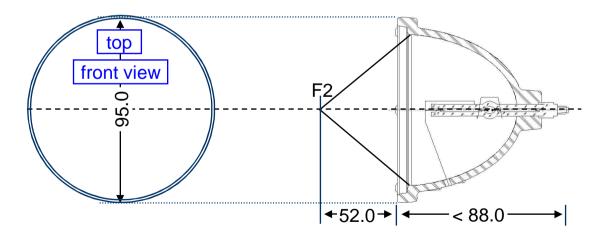
Lamp P-VIP 100-120/1.3 E23ha

Contour	E23 – elliptic
working distance	52.0 mm
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	no, lamp closed
location contact 1a	central at base
location contact 2a	03:00 oʻclock

a) viewed from front

dimensions in mm





Lamp P-VIP 100-120/1.0 P22ha

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

P22 – parabolic

1.0 mm

100 – 120 W

15 – 18 kV

3,800 lm @ 120 W

> 6,000 h @ 120 W





a) observed in 2400 mm distance through \varnothing 160 mm aperture

b) when operated on OSRAM lamp driver PT VIP 2AC/380 O1

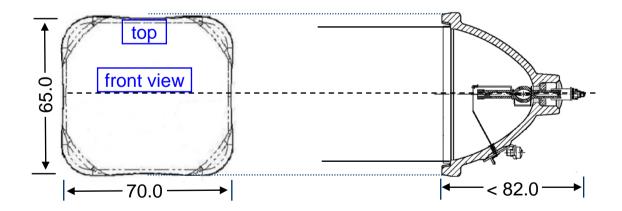
Lamp P-VIP 100-120/1.0 P22ha

Contour	P22 – parabolic
working distance	infinite
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	no, lamp closed
location contact 1a	central at base
location contact 2a	04:30 oʻclock

a) viewed from front

dimensions in mm



OSRAM OSRAM

Lamp P-VIP 120-132/1.0 P22ha

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

MD TV

P22 – parabolic

1.0 mm

120 - 132 W

15 – 18 kV

4,500 lm @ 132 W

> 6,000 h @ 132 W





a) observed in 2400 mm distance through \varnothing 160 mm aperture

b) when operated on OSRAM lamp driver PT VIP O1 RP 132

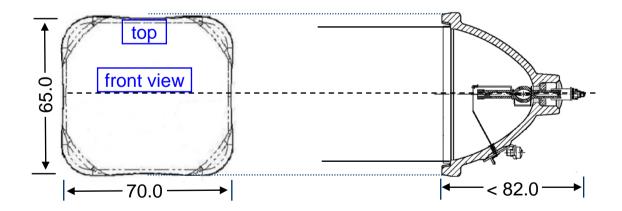
Lamp P-VIP 120-132/1.0 P22ha

Contour	P22 – parabolic
working distance	infinite
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	1 x TOP, 1 x BOTTOM
location contact 1a	central at base
location contact 2a	04:30 oʻclock

a) viewed from front

dimensions in mm



OSRAM OSRAM

Lamp VIP R 120/P12a

Category

Reflector

Arc gap

Rated power

Ignition

Light output typ.^a

Average Life time^b

Environmental

FP

E18 – elliptic

1.0 mm

120 - 132 W

5 kV

4,900 lm @ 132 W

> 3,000 h @ 132 W





a) observed in working distance through 5.0 x 3.8 mm² rectangular aperture

b) when operated on OSRAM lamp driver PT VIP 120AC/100-240 Q1

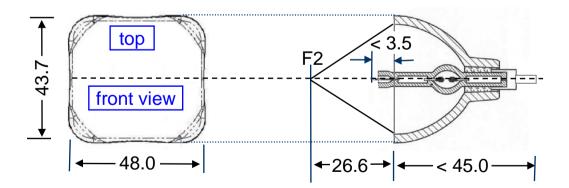
Lamp VIP R 120/P12a

Contour	E18 – elliptic
working distance	26.6 mm
Reflector glass	borosilicate

Lamp design	
front glass	no
	burner extends over reflector rim
location contact 1a	10:30 oʻclock
location contact 2 ^a	01:30 oʻclock

a) viewed from front

dimensions in mm





Lamp VIP R 120/P16a

Category

■ Reflector P16 – elliptic

Arc gap1.0 mm

Rated power 120 W

■ Ignition 20 kV

■ Light output typ.a 4,400 lm @ 120 W

FP

Average Life time^b >1,500 h @ 120 W

Environmental Complies RoHS





a) observed in working distance through 5.0 x 3.8 mm² rectangular aperture

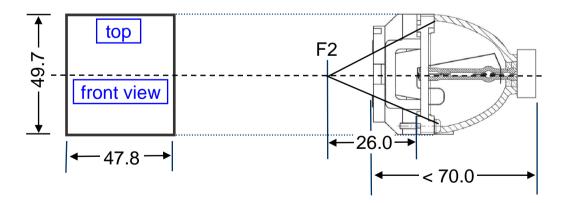
b) when operated on OSRAM lamp driver PT VIP 120AC/100-240 H

Lamp VIP R 120/P16a

Contour	P16 – elliptic
working distance	26.0 mm
Reflector glass	borosilicate

Lamp design	
front glass	front cap incl. front glass
air inlets	1 x left, 1 x right
HV contacting	70/100 mm leads with plug attached to lamp
HV plug	SMK 101CCT-92-01 male

dimensions in mm





Lamp VIP R 150/P16a

CategoryFP

■ Reflector P16 – elliptic

Arc gap1.3 mm

Rated power 150 W

■ Ignition 20 kV

■ Light output typ.a 5,200 lm @ 150 W

■ Aaverage Life time^b >3,000 h @ 150 W

Environmental Complies RoHS





a) observed in working distance through 5.0 x 3.8 mm² rectangular aperture

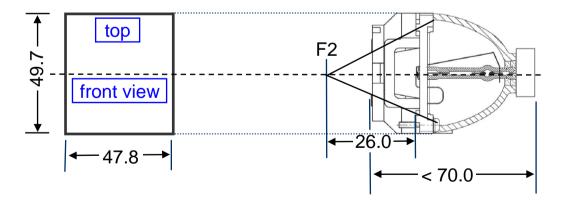
b) when operated on OSRAM lamp driver PT VIP 150AC/100-240 H2

Lamp VIP R 150/P16a

Contour	P16 – elliptic
working distance	26.0 mm
Reflector glass	borosillicate

Lamp design	
front glass	front cap incl. front glass
air inlets	1 x left, 1 x right
	70/100 mm leads with plug attached to lamp
	SMK 101CCT-92-01 male

dimensions in mm





Lamp P-VIP 150/1.3 E21.5a

Category

Reflector

Arc gap

Rated power

Ignition

Light output typ.^a

Average Life time^b

Environmental

FP

E21.5 – elliptic

1.3 mm

150 W

16 kV

5,500 lm @ 150 W

> 2,500 h @ 150 W





a) observed in working distance through 5.0 x 3.8 mm² rectangular aperture

b) when operated on OSRAM lamp driver PT VIP 150AC/100-240 H1

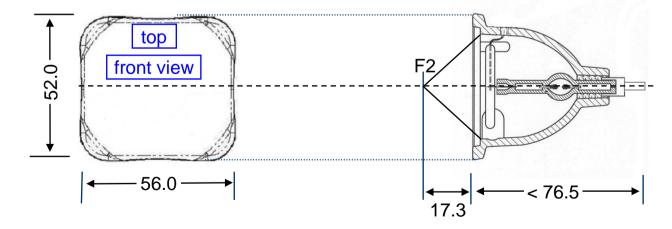
Lamp P-VIP 150/1.3 E21.5a

Contour	E21.5 – elliptic
working distance	17.3 mm
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inletsa	slot on left side
location contact 1a	central at base
location contact 2a	01:30 oʻclock

a) viewed from front

dimensions in mm



OSRAM OSRAM

Lamp VIP R 150/P22a

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

FP

P22 – parabolic

1.3 mm

150 W

16 kV

3800 lm @ 150 W

1000 h @ 150 W





a) observed in 900 mm distance through \varnothing 95 mm aperture

b) when operated on OSRAM lamp driver PT VIP 150AC/100-240 H1

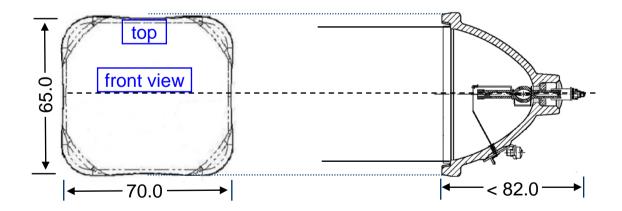
Lamp VIP R 150/P22a

Contour	P22 – parabolic
working distance	infinite
Reflector glass	borosilicate

Lamp design	
front glass	yes
air inlets	no, lamp closed
location contact 1a	central at base
location contact 2a	4:30 o'clock

a) viewed from front

dimensions in mm



OSRAM OSRAM

Lamp P-VIP 180/1.0 E20a

Category

Reflector

Arc gap

Rated power

Ignition

Light output typ.^a

Average Life time^b

Environmental

FP

E20 – elliptic

1.0 mm

180 W; Dimm: 156 W

5 kV

6,800 lm @ 180 W

>3,000 h @ 180 W





a) observed in working distance through 5.0 x 3.8 mm² rectangular aperture

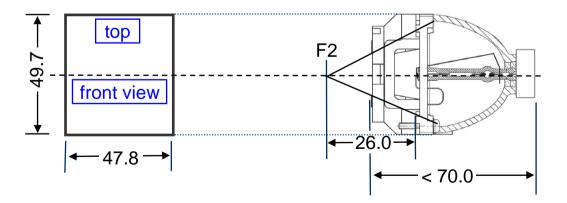
b) when operated on OSRAM lamp driver PT VIP 180AC/100-240 H1

Lamp P-VIP 180/1.0 E20a

Contour	E20 – elliptic
working distance	26.0
Reflector glass	borosilicate

Lamp design	
front glass	front cap incl. front glass
air inlets	1 x left, 1 x right
HV contacting	100/100 mm leads with
	plug attached to lamp
HV plug	SMK 101CCT-92-01 male

dimensions in mm





Lamp P-VIP 200/1.0 P21.5a

Category

Reflector

Arc gap

Power range

Ignition

Light output typ.^a

Average Life time^b

Environmental

FP

P21.5 – parabolic

1.0 mm

200 W, Dimm: 160W

5 kV

8,000 lm @ 200 W

1,500 h @ 200 W





a) observed in 900 mm distance through \varnothing 95 mm aperture

b) when operated on OSRAM lamp driver PT VIP 3AC/380 O3

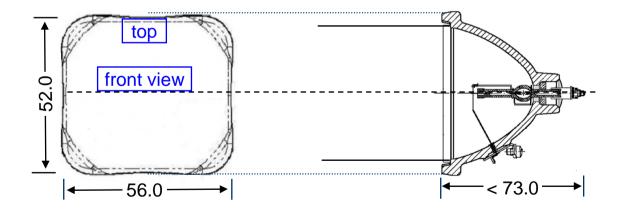
Lamp P-VIP 200/1.0 P21.5a

Contour	P21.5 – parabolic
working distance	infinite
Reflector glass	crystallized

Lamp design	
front glass	yes
air inlets	4 x, on all four sides
location contact 1a	04:30 oʻclock
location contact 2a	07:30 oʻclock

a) viewed from front

dimensions in mm



OSRAM OSRAM

Lamp P-VIP 200/1.0 E19a

Category

Reflector

Arc gap

Power range

Ignition

■ Light output typ.^a 8,200 lm @ 200 W

Average Life time^b

Environmental

FP

E19 – elliptic

1.0 mm

200 W

2.5 - 5 kV

2,500 h @ 200 W





a) observed in working distance through 5.0 x 3.8 mm² rectangular aperture

b) when operated on OSRAM lamp driver PT VIP O3 MID 200

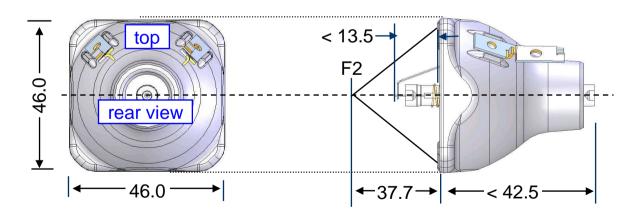
Lamp P-VIP 200/1.0 E19a

Contour	E19 – elliptic
working distance	37.7 mm
Reflector glass	crystallized

Lamp design	
front glass	no
	burner extends over reflector rim
location contact 1a	10:30 oʻclock
location contact 2a	01:30 oʻclock

a) viewed from front

dimensions in mm



P-VIP Replacement Lamps, Subject to alteration



Lamp P-VIP 300/1.3 E21.8a

Category

E21.8 – elliptical Reflector

Arc gap

Rated power

Ignition

10000 lm @ 300 W Light output typ.^a

Average Life time^b

Environmental

FP

1.3 mm

300 W

5 kV

> 2,000 h @ 300 W





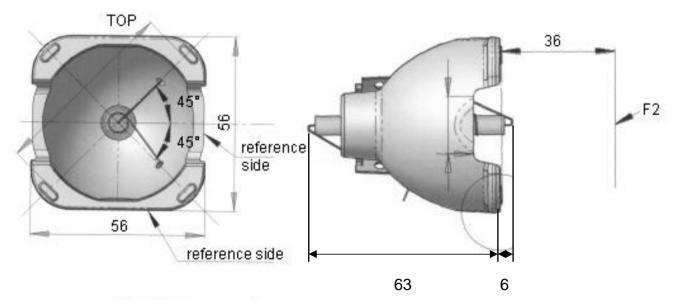
a) observed in working distance through 5.0 x 3.8 mm² rectangular aperture

b) when operated on OSRAM lamp driver PT VIP 5AC/380 O4

Lamp P-VIP 300/1.3 E21.8a

Contour	E21.8 – elliptical
working distance	36.0 mm
Reflektor glass	Cristalized
Lamp lenght	69 mm

Lamp design	
front glass	no
air inlets	air gaps
location contact 1 ^a	01:30 oʻclock
location contact 2 ^a	04:30 oʻclock



P-VIP Replacement Lamps, Subject to alteration



P-VIP Instruction for Use

For lamp replacement

- switch off power,
- disconnect mains supply,
- disconnect power cord,
- allow lamp to reach room temperature.

This P-VIP® lamp

- operates at high pressure and at high temperature and may unexpectedly shatter.
- generates ultraviolet radiation which may cause skin and eye irritation with prolonged exposure.
- must be operated only in suitably designed, enclosed fixtures which prevent direct observation of the arc and will prevent lamp fragments from exiting, in the unlikely event of a lamp rupture.



P-VIP Instruction for Use

- Do not touch the lamp with bare hands.
- If necessary, lamp can be cleaned with lint free towel before operation.
- Protect lamp environment against high ignition pulses
 Front projection max. 8 kV and rear projection max. 23 kV
- Avoid direct contact of objects to reflector cover glass.
- This lamp must not be operated with a broken, cracked or loose reflector or cover glass.
- Fast on-off-cycles will reduce lamp life (10 min on/off)
- Operate lamp only in accordance with UL 1950 regulations.
- Avoid back-reflection of light into burner.



P-VIP Instruction for Use

Disposal

For disposal of spent lamps, always consult federal, state, local and provincial hazardous waste disposal rules and regulations to ensure proper disposal.

Caution

This lamp emits ultra violet (UV) radiation and operates at high pressure.

This lamp may only be used in enclosed fixtures that comply with

UL1572. Due to the high luminous efficacy, the UV radiation which the

lamp emits and the high pressure within the lamp, P-VIP® lamps may

only be operated within enclosed, purpose-built housings.

