

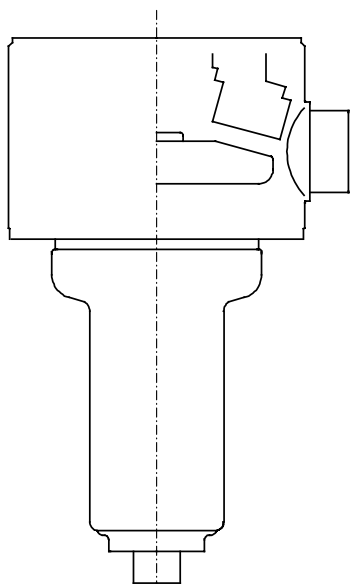


# Documentazione Tubo a raggi X

## Tube Documentation

### Documentation du Tube

# XM15 T 0.1/0.3



Nr. di matricola  
Tube No.  
Nr de série



Questa documentazione deve essere fornita all'utilizzatore del complesso tubo-guaina  
The contents of this documentation must be transmitted to the user of the tube-assembly  
Le contenu de cette documentation doit être transmis à l'utilisateur de la gaine équipée

Documentazione N° Documentation N° N° de Documentation	Revisione Edition Version	Data di edizione Date of release Date de l'édition	Testo originale Original text Texte original
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**I.A.E Spa**

via Fabio Filzi, 53 - 20032 CORMANO (MI) Italy  
Tel: ++39-0266303255 Fax: ++39-026152544  
<http://www.iae.it> e-mail: [iaexray@iae.it](mailto:iaexray@iae.it)





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**Dichiarazione di conformità**

Questo prodotto soddisfa i requisiti essenziali del regolamento UE 2017/745 in accordo alle norme IEC 60613, IEC 60336, IEC 60522, IEC 60526, IEC 60601-1, IEC 60601-1-3, IEC 60601-2-28.

**Declaration of conformity**

This tube fulfils the essential requirements of the regulation EU 2017/745 according to standard IEC 60613, IEC 60336, IEC 60522, IEC 60526, IEC 60601-1, IEC 60601-1-3, IEC 60601-2-28.

**Confirmation de conformité**

Ce tube remplit les exigences essentielles de le règlement UE 2017/745 en accord avec les normes IEC 60613, IEC 60336, IEC 60522, IEC 60526, IEC 60601-1, IEC 60601-1-3, IEC 60601-2-28.



**Caratteristiche - Specifications - Spécifications**

Macchie focali e condizioni di misura Focal spots and measure conditions Foyers et conditions de mesure	☐ 0.1 ■ 0.3	25 kV 20 mA 25 kV 100 mA	IEC 60336
Massima corrente di emissione Max emission current Max courant d'émission	☐ 0.1 ■ 0.3	35 mA 25 kV 140 mA 25 kV	
Angolo tra asse di riferimento e piano della pista focale Angle between axis reference and focal spot plane Angle entre axe de référence et surface de la piste focale		10 °	
Velocità di rotazione dell'anodo Anode speed Vitesse de l'anode		50 / 60 Hz 150 / 180 Hz 2850 / 3450 min <sup>-1</sup> 8500 / 10000 min <sup>-1</sup>	
Potenza anodica nominale Nominal anode input power Puissance anodique nominale	☐ ■	2 kW 4 kW 8 kW 16 kW	IEC 60613 (1989)
Potenza anodica nominale in radiografia Nominal radiographic anode input power Puissance anodique radiographique nominale	☐ ■	2.4 kW 4.5 kW 9.0 kW 17 kW	IEC 60613 (2010)
Diametro anodico Anode diameter Diamètre de l'anode		80 mm	
Materiale anodico Anode material Matériau de l'anode		RT-TZM *	
<small>RT = Tungsteno + Renio (5-10%), TZM = Molibdeno + Titanio (0.40-0.55%) + Zirconio (0.06-0.12%) * RT = Tungsten + Rhenium (5-10%), TZM = Molybdenum + Titanium (0.40-0.55%) + Zirconium (0.06-0.12%) RT = Tungstène + Rhénium (5-10%), TZM = Molybdène + Titane (0.40-0.55%) + Zirconium (0.06-0.12%)</small>			
Angolo anodico Anode angle Pente de l'anode		15 °	
Filtrazione inerente Inherent filtration Filtration inhérente		0.5 mm Be	
Capacità termica anodica Maximum anode heat content Chaleur maximale accumulée dans l'anode		225 kJ 300 kHU	IEC 60613 (1989)
Dissipazione termica continua massima Maximum continuous heat dissipation Dissipation thermique continue maximale		715 W 57 200 HU/min	
Dissipazione termica massima Maximum heat dissipation Dissipation thermique maximale		750 W 60 000 HU/min	
Alta tensione nominale Nominal X-ray tube voltage Haute tension nominale		49 kV	IEC 60613 (2010)
Massima corrente di filamento Max. filament current Courant dans le filament max.		5.4 A	

I dati forniti nella presente documentazione si intendono riferiti a:

The data indicated in this documentation refer to:

Les données indiquées dans cette documentation sont calculées pour:

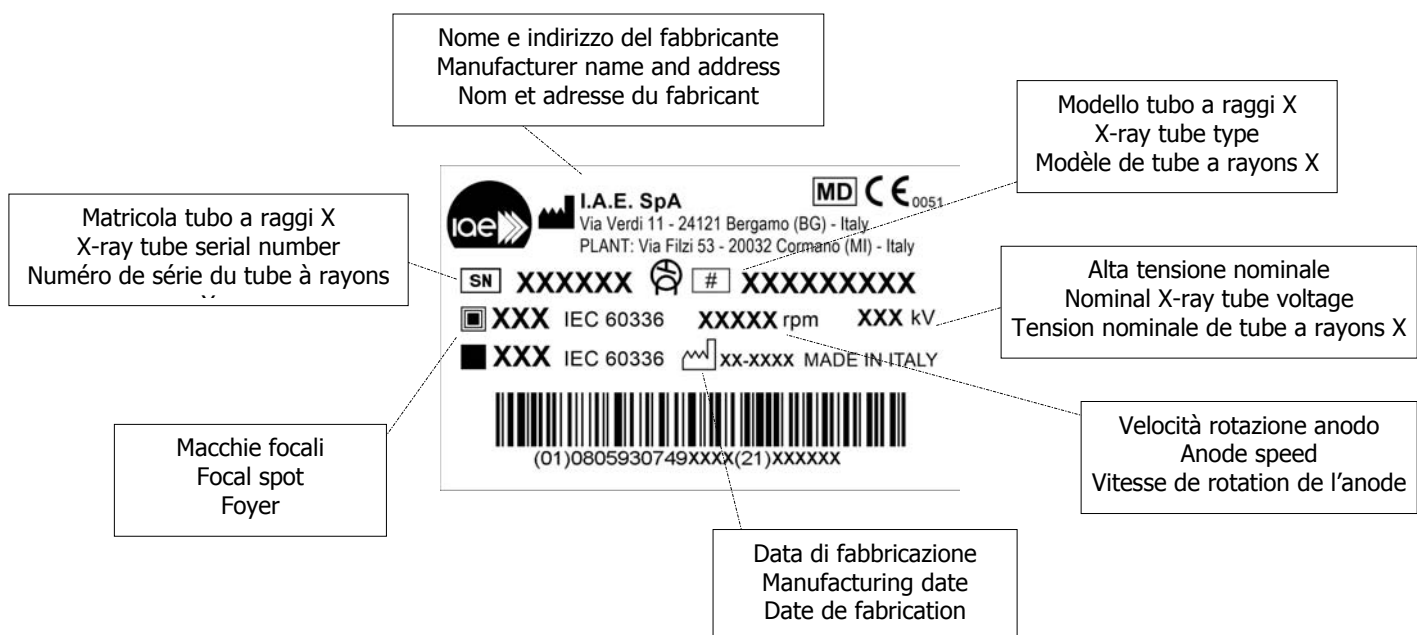
Potenza anodica di equilibrio termico		% della capacità termica anodica	
Equivalent anode input power	100 W =	% of maximum anode heat content	38%
Puissance anodique d'équilibre thermique		% de chaleur max. accumulée dans l'anode	



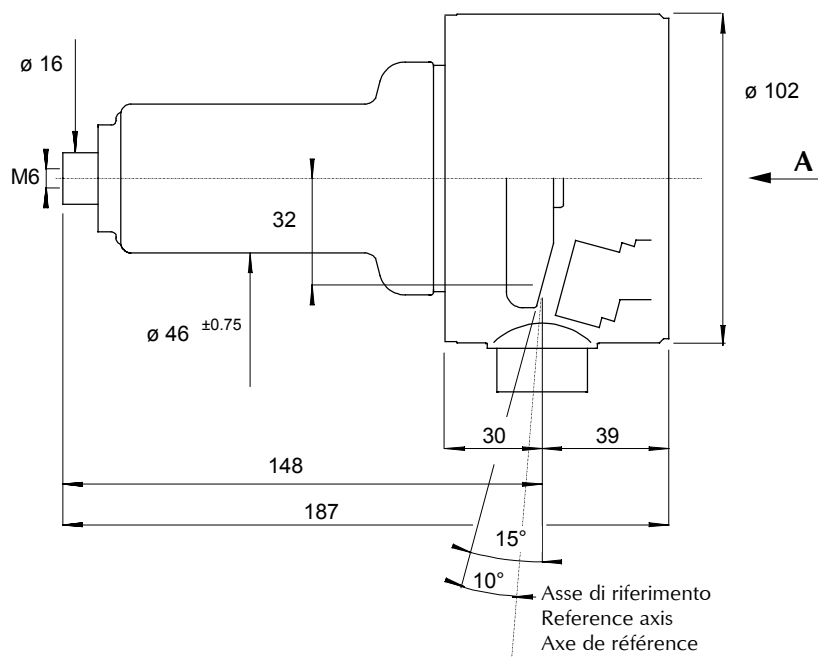
	trasporto e stoccaggio transportation and storage transport et stockage	funzionamento operation opération	
Limiti di temperatura Temperature limits Limites de température	-10°C ÷ +80°C	+10°C ÷ +40°C	
Limiti di umidità Humidity limits Limites d'humidité	max. 80%	max. 75%	
Limiti di pressione Pressure limits Limites de pression	500 ÷ 1060 hPa	700 ÷ 1060 hPa	

### Etichettatura - Labeling - Etiquetage

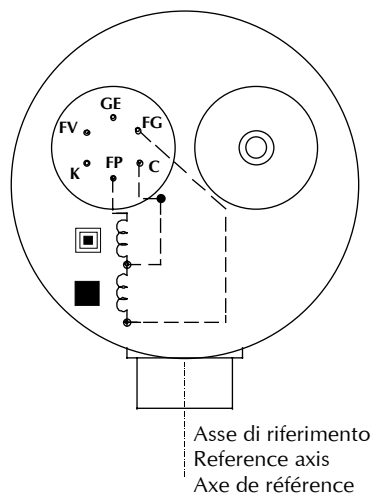
#### Etichetta del tubo / Tube label / Etiquette de tube



**Dimensioni - Dimension - Dimensions**



**Vista A - View A - Vue A**

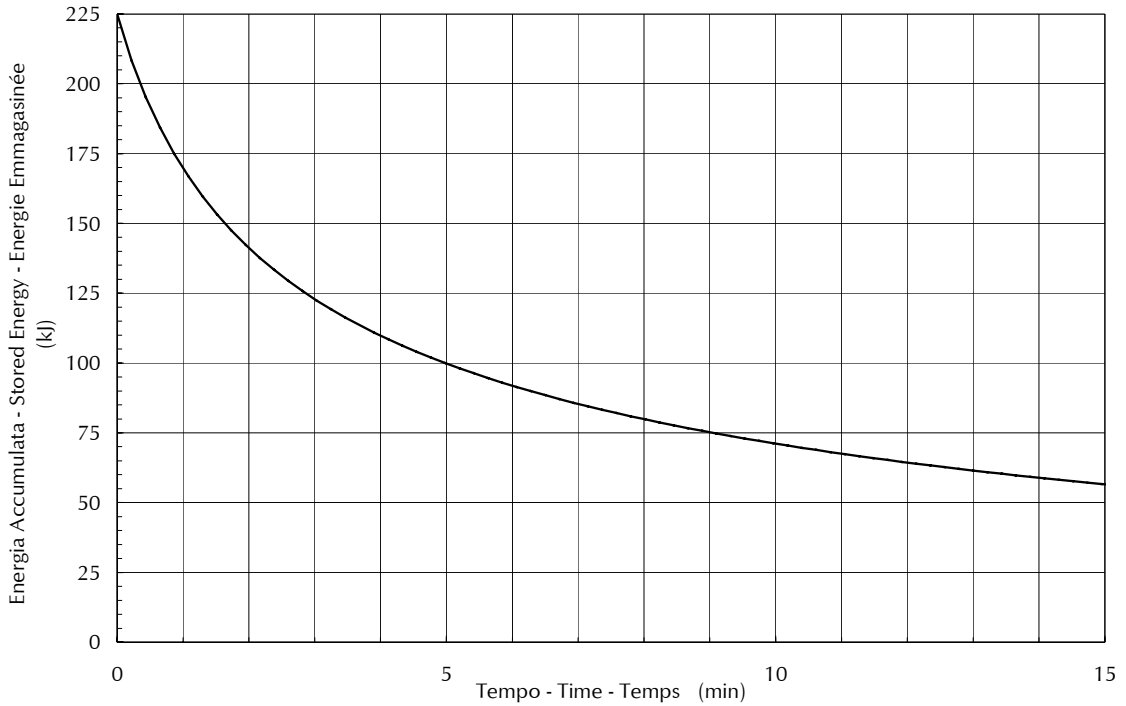


**Collegamenti - Connector - Connexions**

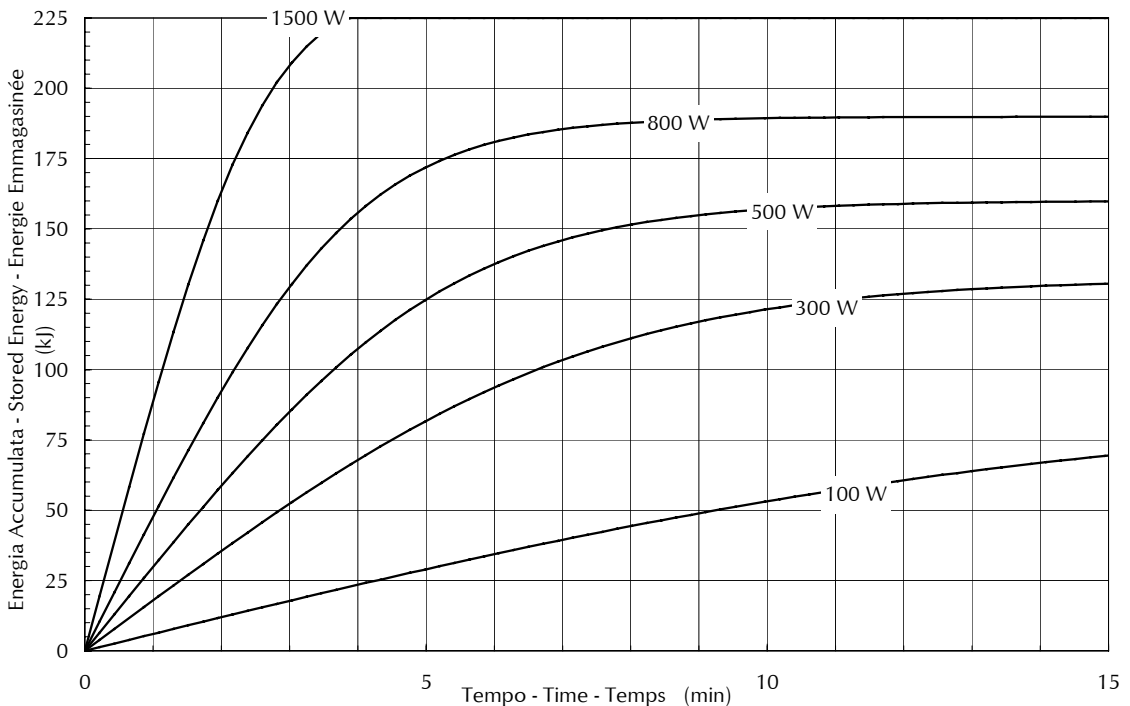
Fuoco piccolo	Small focal spot	Petit foyer	FP
Fuoco grande	Large focal spot	Grand foyer	FG
Comune <i>Deve essere collegato a terra o direttamente o attraverso il circuito di misura dei mA</i>	Common <i>Must be connected to ground either directly or trough mA measurement circuit</i>	Commun <i>Doit être raccorder à la terre ou directement ou par le circuit de mesure des mA</i>	C
Utilizzati in fase di produzione	Used during working process	Utilisés pendant le procédé de production	K - FV - GE



**Curva di raffreddamento dell'anodo**  
**Anode cooling curve**  
**Courbe de refroidissement de l'anode**



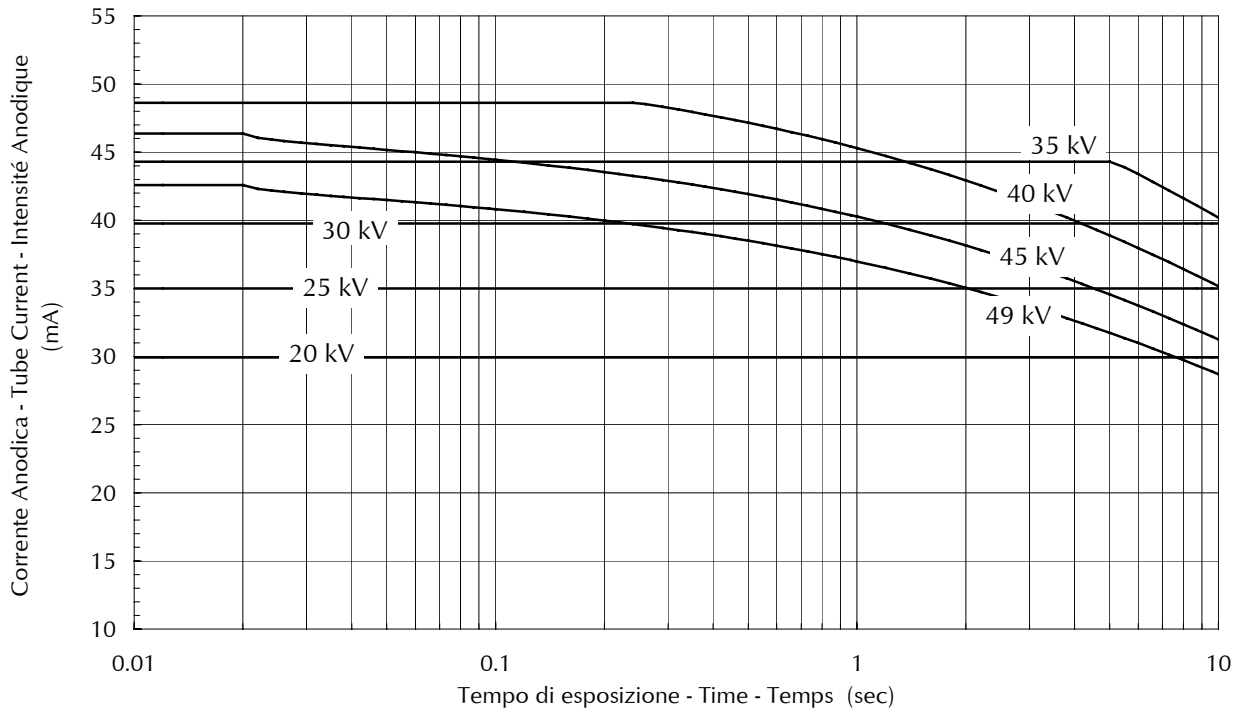
**Curve di riscaldamento dell'anodo**  
**Anode heating curves**  
**Courbes d'echauffement de l'anode**





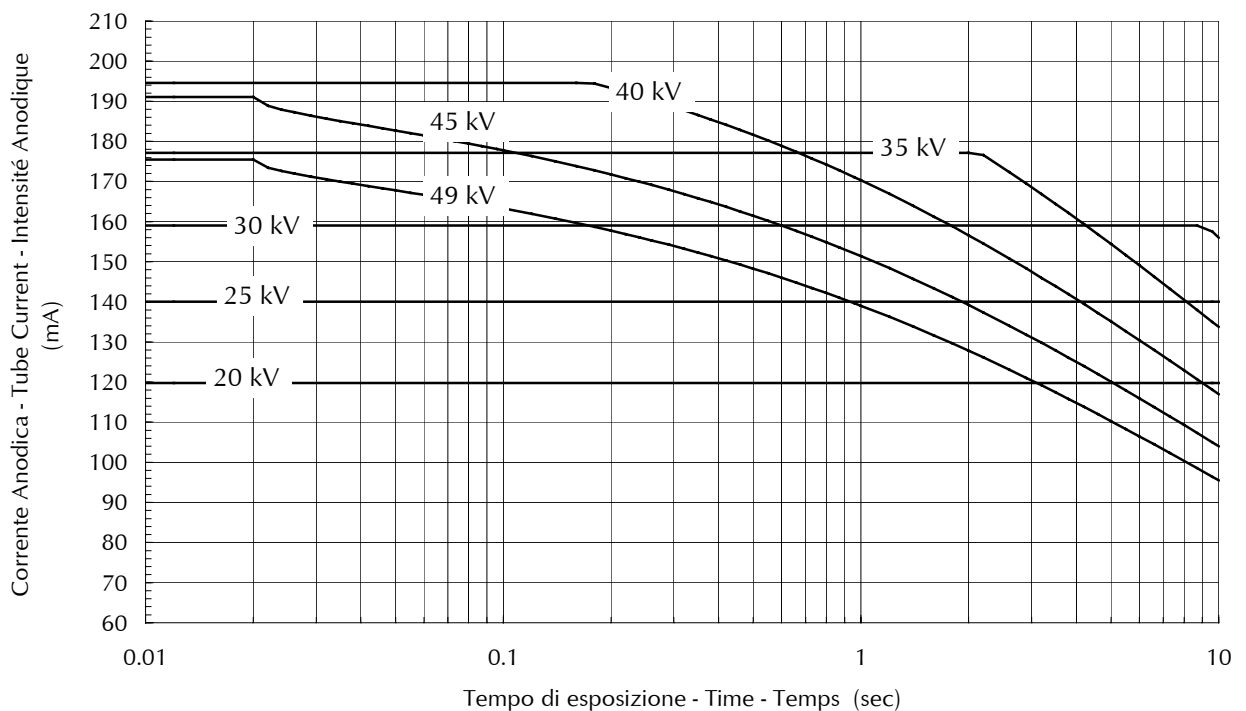
## CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.1 - 3 ~ - 3000 min<sup>-1</sup>



## CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

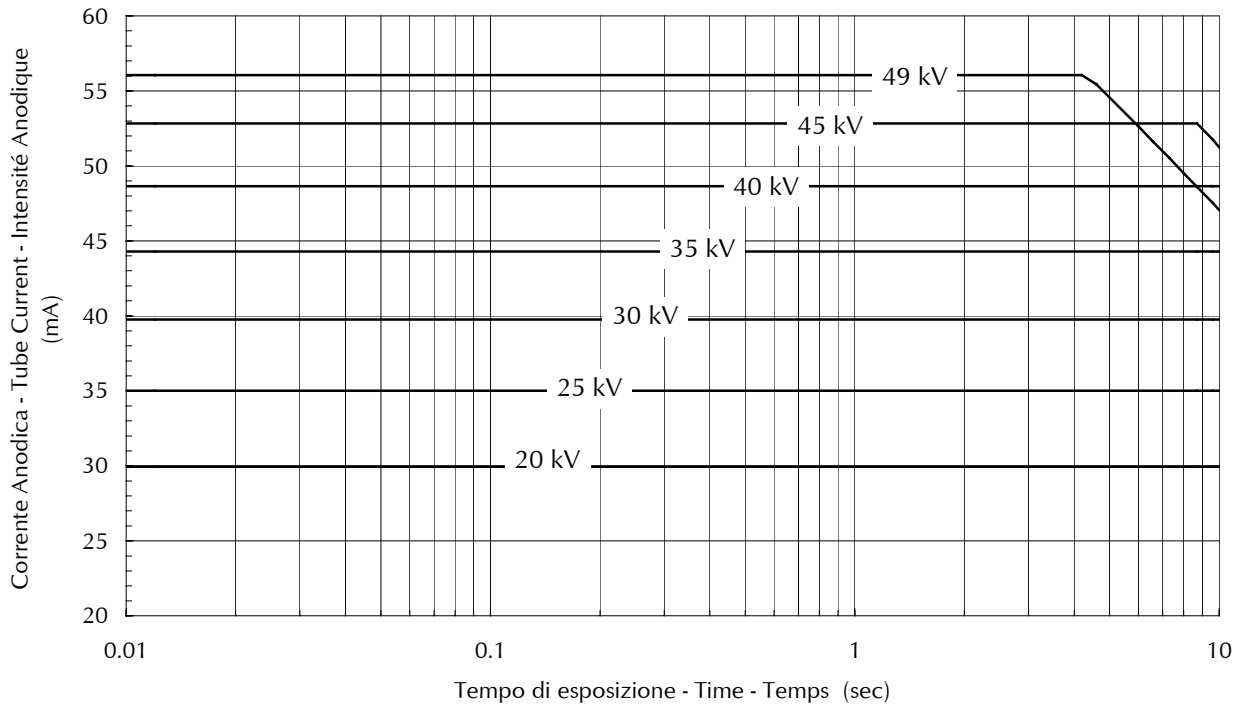
■ 0.3 - 3 ~ - 3000 min<sup>-1</sup>





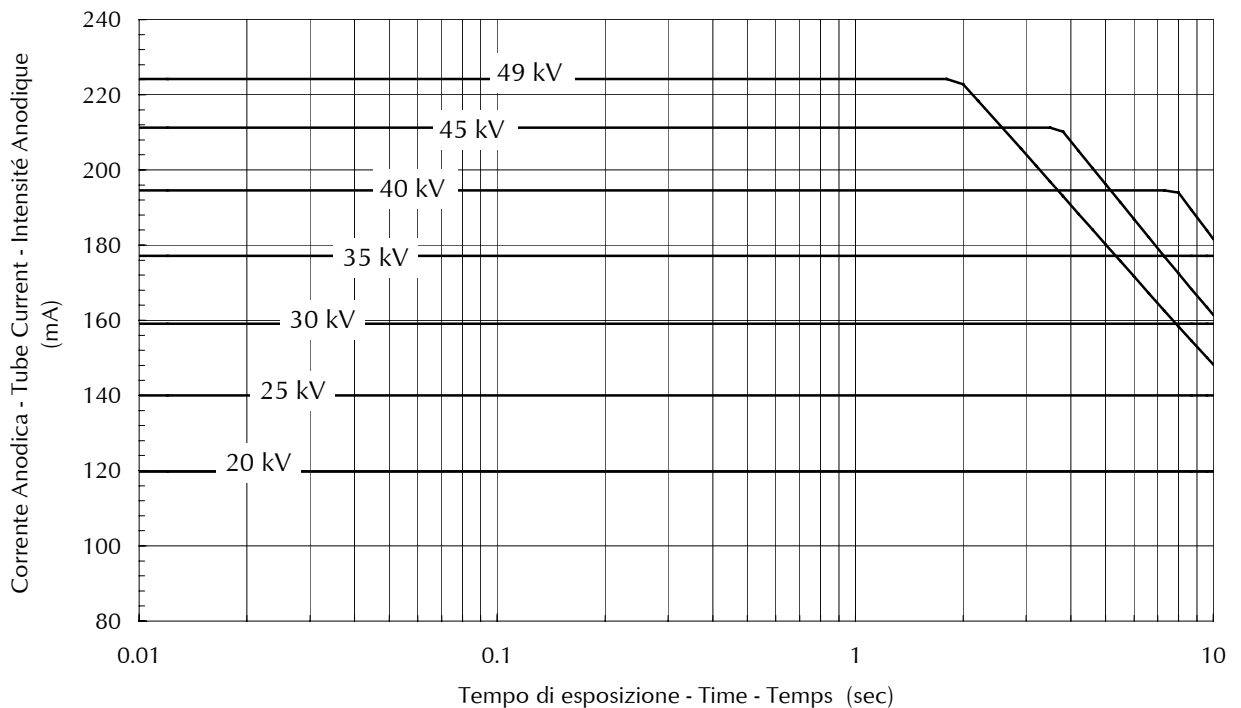
**CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE**

▣ 0.1 - 3 ~ - 10000 min<sup>-1</sup>



**CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE**

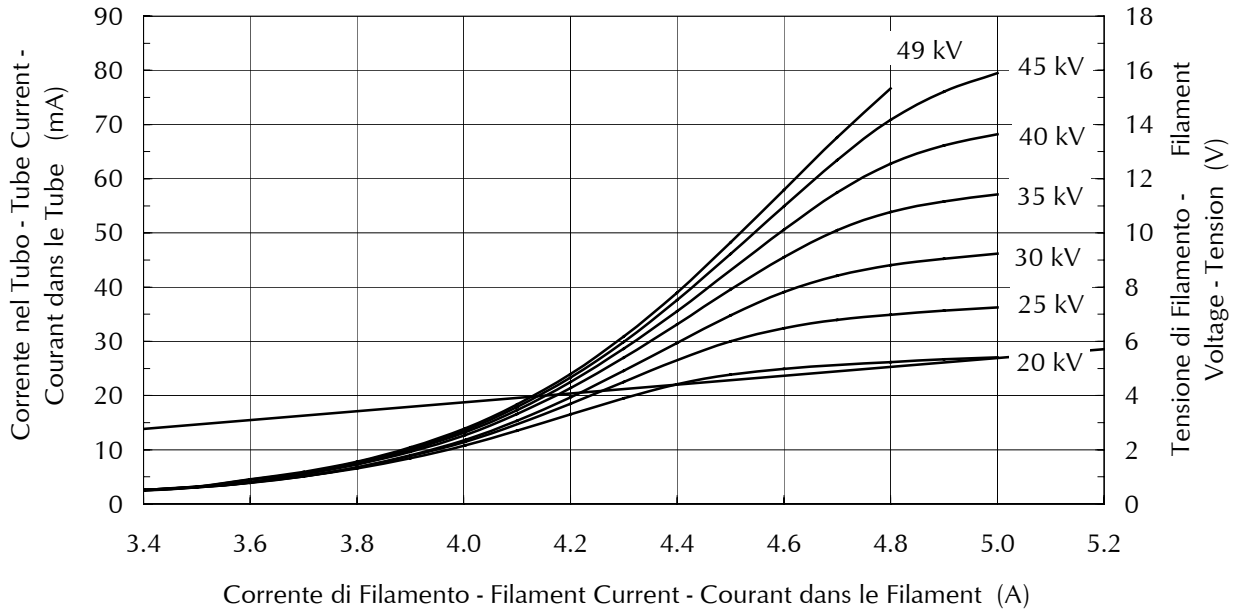
■ 0.3 - 3 ~ - 10000 min<sup>-1</sup>





**Caratteristica di emissione del catodo**  
**Cathode emission characteristic**  
**Caractéristique d'émission de la cathode**

▣ 0.1 - 3 ~ - (± 0.2 A)



**Caratteristica di emissione del catodo**  
**Cathode emission characteristic**  
**Caractéristique d'émission de la cathode**

■ 0.3 - 3 ~ - (± 0.2 A)

