The high energy ignition devices of the D-HG 400 and D-HG 500 series are suitable for the ignition of gas or liquid fuels in industrial burners of any capacity



- Reliable ignition of gaseous fuels
- Ignition of liquid fuels, up to heavy oil grade 6
- Suitable as "Ignitor Class 3 Special" in accordance with NFPA 85
- Compact set-up with integrated ignition lance
- Separated set-up of ignition device and ignition lance for safe and hazardous areas
- Thyristor controlled and therefore nonwearing electronic
- Ignition feedback signal via potential-free relay output
- LED indication at device
- Integrated protection and control functionalities

Applications

- Chemical industry
- Refineries
- Cement plants
- Waste incinerators
- Power plants
- Steam generators
- Claus plants

Certifications

ATEX/ IECEx

DURAG GmbH

FAC



Function

At the high energy igniters D-HG 400 and D-HG 500 a high-voltage capacitor is discharged and a spark is created at the ignition lance's tip. The spark discharge is triggered by a non-wearing switch (thyristor). Every spark produces –depending on the model – an energy of up to 5,6 Joule at a maximum ignition frequency of 20 sparks per second.

Capacity types

D-HG 400

Ignition feedback signal via LED at the device and potential-free relay output to the control room, maximum ignition energy of 90 Joule at a maximum ignition frequency of 20 sparks per second

D-HG 500

Ignition feedback and status signal via LEDs at the device and potential-free relay outputs to the control room, maximum ignition energy of 112 Joule at a maximum ignition frequency of 20 sparks per second

D-HG 550

As D-HG 500 but with the additional possibility for customizing of parameters and optional available control functionalities (via software D-ESI 100 by user or DURAG-Service)

Models

- D-HG ...-50 Compact set-up, electronics and ignition lance are one unit
- D-HG ...-51 Compact set-up as D-HG ... -50 with push-button for manual ignition
- D-HG ...-52 Compact set-up as D-HG ... -50 with separated connections for signalling and power supply
- D-HG ...-60 Separated set-up for safe areas: Electronic unit and ignition lance are connected by a high voltage cable
- D-HG ...-61 Separated set-up as D-HG..-60 with push-button for manual ignition
- D-HG ...-62 Separated set-up as D-HG..-60 with separated connections for signalling and power supply
- D-HG ...-..Ex Separated set-up for potentially explosive atmospheres 1&21 (ATEX)

Optional

Customized and project specific versions with flexible ignition lances for tilting burners





