High-temperature flare HTF

Ignition system
Pilot bruner for propane, natural gas and special gases.

Main features of the HTF

- ✓ Concealed burning < 1000°C
- ✓ Dwell of 0.3 sec (“TA-Luft”)
- ✓ Isolated burning chamber
- ✓ Standardized to EN746

Optional

- ✓ Two-step main gas valve
- ✓ Stainless steel switchboard
- ✓ Continuous power regulation
- ✓ Flare-length according to customer wish

HTF 50-1500

- Volume flow	50-1500Nm^3/h
- Fuel	landfill & special gases
- Heat value	35-95% CH4
- Gas pressure	min. 20mbar
- Connection	DN50-DN200
- Ignition	High voltage 10kV
- Flame control	UV-Cell

The series HTF is designed as a works flare (according to TA-Luft) with automatic exhaust temperature control at 1000°C and a dwell of at least 0.3 sec.
Area of deployments: Thermal disposal of combustible surplus gases (landfill gas plants) or special gases.

HTF flares are supplied with heat-resistant ceramic lagging (up to 1220°C) and automatically controlled air flap. The flare burner starts when the start signal and the gas pressure due for flare. Automatic ignition and control during operation.

All control functions in weatherproof control cabinet. Ignition Systems: Pilot burner for propane, natural gas and special gases.
All wetted components are welded of V4A steel, rayed and passivated.

HTF-type	vol [Bm³/h]	max [kW]	pressure min [mbar]	number burners	height H1[mm]	casing Ø1[mm]
HTF 1500	400-1500	9000	40	9	7500	1800
HTF 1000	250-1000	6000	40	9	7500	1600
HTF 800	200-800	4800	40	6	7000	1300
HTF 600	150-600	3600	40	4	6500	1200
HTF 500	150-500	3000	40	2	6000	1 100
HTF 300	150-300	1800	40	2	6000	900
HTF 200	100-200	1200	40	2	6000	800
HTF 100	25-100	650	20	1	5000	630

(x1) ..... position
..... legend, dimensioning
..... construction line
..... center line
..... gas flow

pos.:	description:	details:
24	measurement connection	
23	connection flange for exhaust gas analysis (option)	
22	casing pipe	material nr. 1.4301
21	reinforcer	material nr. 1.4301
20	firing chamber insulation 100 mm thick	up to 1220 °C
19	E-cabinet	protection IP 54
18	pressure controller, ignition gas ½"	30 mbar
17	propan - external gassupply	
16	thermo couple NiCr-Ni	1220°C
15	ignition burner, heat durable	material nr. 1.4828
14	flame monitoring UV-cell	protection IP 55
13	flame arrestor ignition gas-line	Ex II G IIA
12	ignition gas-line ½"	material nr. 1.4301
11	ignition gas-valve	protection IP 64
10	ball valve ½" ignition line	V4A
9	supply air flap with actuator for secundary air supply	V4A
8	injector burner, heat durable	V4A
7	stainless steel compensator	DVGW-certified
6	stainless steel ball valve (optional)	V4A
5	flame arrestor main gas-line	Ex II G IIA
4	gas-motor valve DVGW certified	protection IP 54
3	pressure switch device	protection IP 54
2	pedestal construction	material nr. 1.4301
1	gas inlet DN 50 - 200mm	material nr. 1.5471

GASTECHNIK HIMMEL

	(Zul. Abw.)	(Oberfl.)	MAßSTAB	(Gewicht)
			(Werkstoff Halbzeug)	1.4301
			(Rohteil-Nr)	1.4571
			(Modell-oder Gesenk-Nr)	1.4828

	Datum	Name
Bearb.	01.2009	Gregoritsis
Gepr.	01.2013	MG
Proj.		
AB-Nr.		

HTF dimension sheet & gas schema

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Blatt

Zust.	Änderung	Datum	Name	(Urspr.)	(Ers. f.)	(Ers. d.)	Bl.

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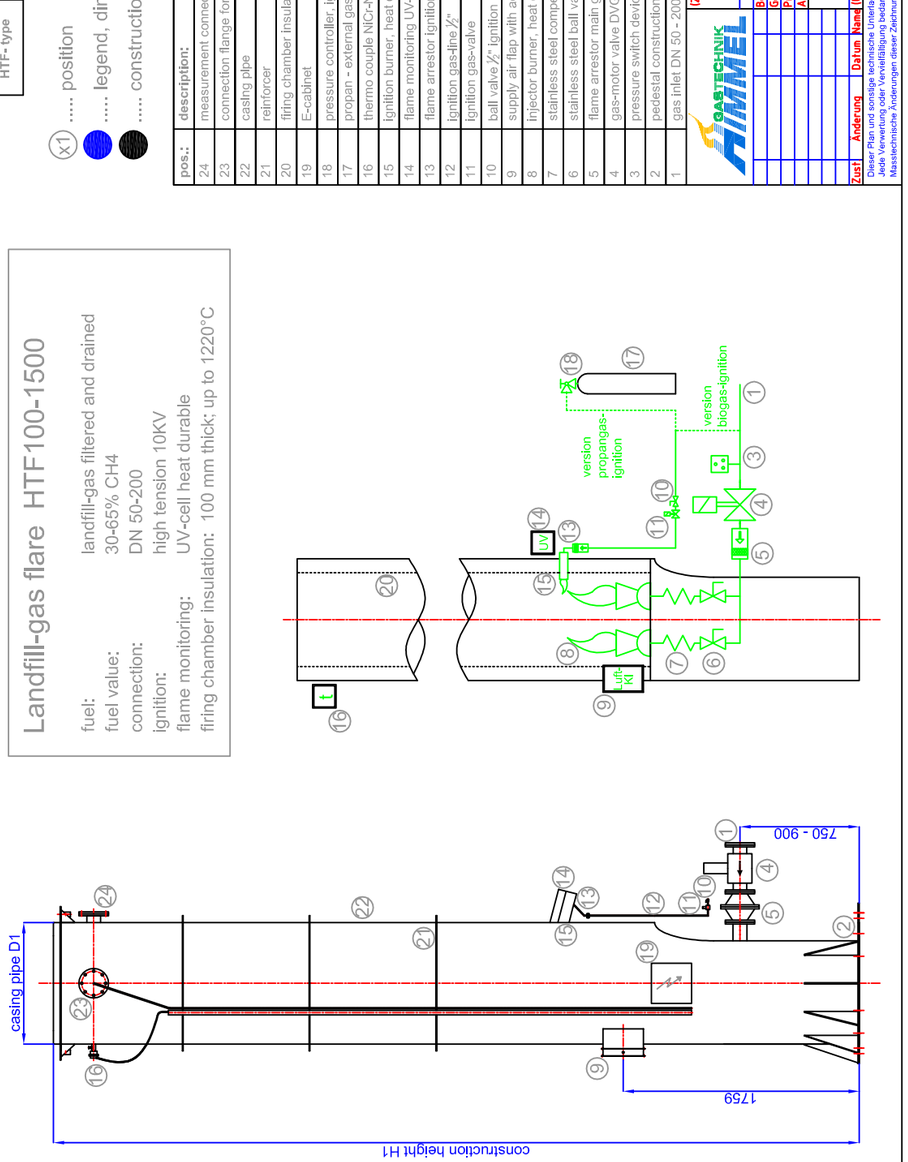
Landfill-gas flare HTF100-1500

fuel:	landfill-gas filtered and drained
fuel value:	30-65% CH4
connection:	DN 50-200
ignition:	high tension 10KV
flame monitoring:	UV-cell heat durable
firing chamber insulation:	100 mm thick; up to 1220 °C



High-temperature flare (HTF)
dimension-sheet & gas-schema