DIN EN ISO 22580:2022-11 (E)

Flares for combustion of biogas (ISO 22580:2020)

Contents

Page

European foreword 3

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Termsanddefinitions 6

4 Abbreviated terms 7

5 Classificationsofflaresforcombustionofbiogas 8

6 Designandconstructionofflaresforcombustionofbiogas 9
6.1 Efficiency of the flare 9
6.2 Pressure 9
6.3 Air supply and gas flow 9
6.4 Pilot burner 10
6.5 Treatment of the gas 10
6.6 Materials 10
6.7 Flame arresters 11
6.8 Burner control unit, ignition transformer, flame monitoring device 11
6.9 Safety valves and other valves 11
6.10 Control system 12
6.11 Flow measuring and gas analysis 12
6.12 Condensate removal 13
6.13 Insulation and heating 13
6.14 Heat protection 13
6.15 Buildings and cabinets 13
6.16 Lightning protection and earthing 13
6.17 Strength and stability calculations 13
6.18 Distances to other objects 13

7 Operations and maintenance requirements 14
7.1 Operations and maintenance manual 14
7.2 Testing of the flare 14
7.3 Operation of the flare 15
7.4 Maintenance and inspection of the flare 15

Bibliography 17