



www.hydraulik-akademie.de

TEST REPORT

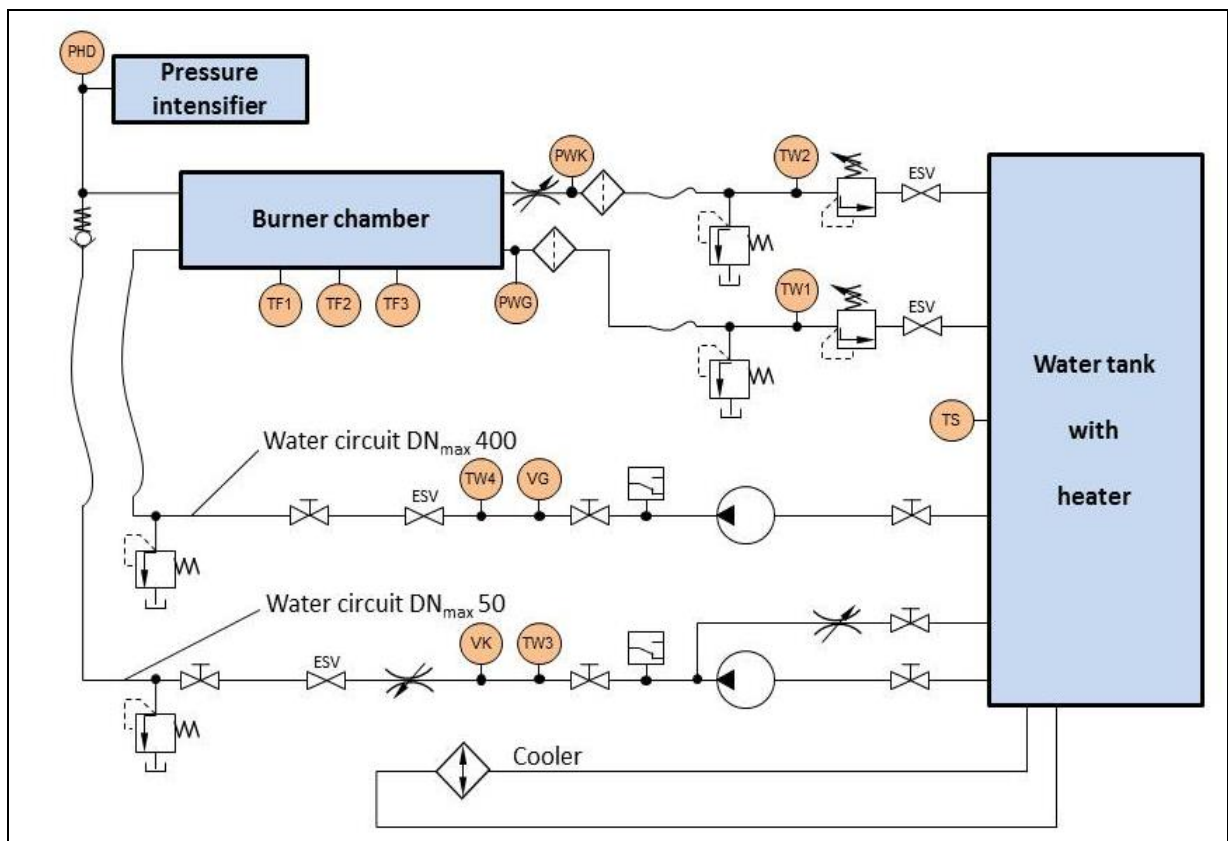
DIN EN ISO 15540

Fire resistance of hose assemblies

Contents:

- Scheme water circuit – Fire test bench
- Test Certificate
- Measuring data – Fire endurance test
- Measuring data – Pressure test
- Picture – Test specimen

Scheme water circuit – Fire test bench



Measuring point	Description
TAG	Exhaust gas temperature
TF1	Flame temperature
TF2	Flame temperature
TF3	Flame temperature
VG	Volume flow water DN _{max} 400
VK	Volume flow water DN _{max} 50
PWG	Pressure water DN _{max} 400
PWK	Pressure water DN _{max} 50
VPG	Mass flow gas
TW1	Temperature reflux water DN _{max} 400
TW2	Temperature reflux water DN _{max} 50
TS	Temperature water tank
TW3	Temperature influx water DN _{max} 50
TW4	Temperature influx water DN _{max} 400
PHD	Static test pressure

Test Certificate

Fire resistance of hose assemblies

Testing subject to DIN EN ISO 15540

Nr.

001-16

Test date: **19.01.2016**

Details on test specimen

Hose:	Designation: Hydraulic hose	Type: 4SP FLH	According to specification: DIN EN 856
	Nominal diameter: DN 12		Allowable working pressure: 425 bar
	Manufacturer: Semperit		Proof pressure: 850 bar
Fitting:	Type: X08BF08 + BXS08		According to specification:
	Manufacturer: GSS Hydraulics		
Fire sleeve:	☒ Yes ☐ No	Manufacturer:	Anamet Hiprojacket Aero DN 25

Test conditions

Working pressure during the test:	5	bar	Static test pressure following flame application:	850	bar
Duration of flame application:	30	min	Duration of static pressure load following flame application:	2	min

Test results

Water temperature: at specimen inlet:	79-80	°C	at specimen outlet:	79-80	°C
Flame temperature: below centre of specimen:	760-840	°C	below the fitting:	780-850	°C
Actual test duration:	-	min (if deviating from duration of flame application as stipulated under test conditions)			
Tight at test pressure after flame application:	☒ Yes ☐ No				
Measurement records (see Annex) No.:	Annex 001-16_1, Annex 001-16_2				

Description of failure

-

Remarks (e.g. on behaviour in fire)

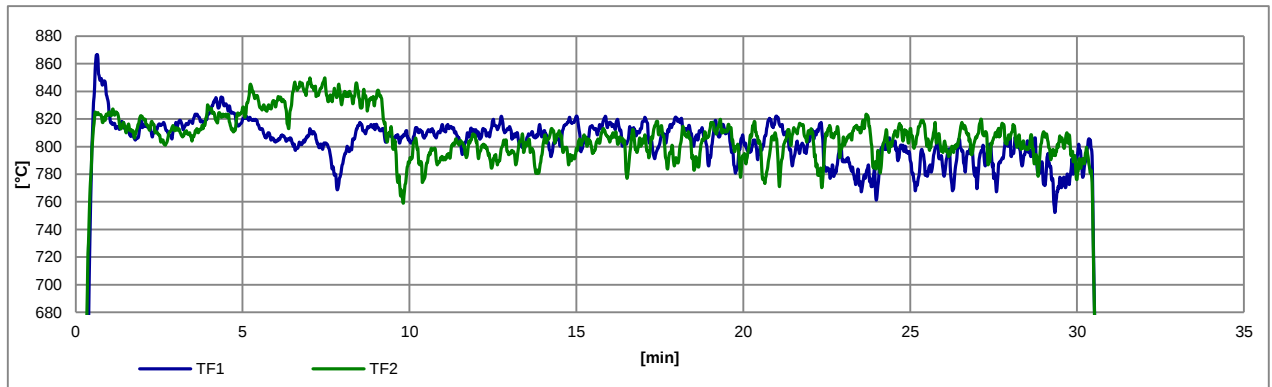
TF1 - temperature fitting
TF2 - temperature centre of hose

Assessment: Test passed: ☒ Yes ☐ No

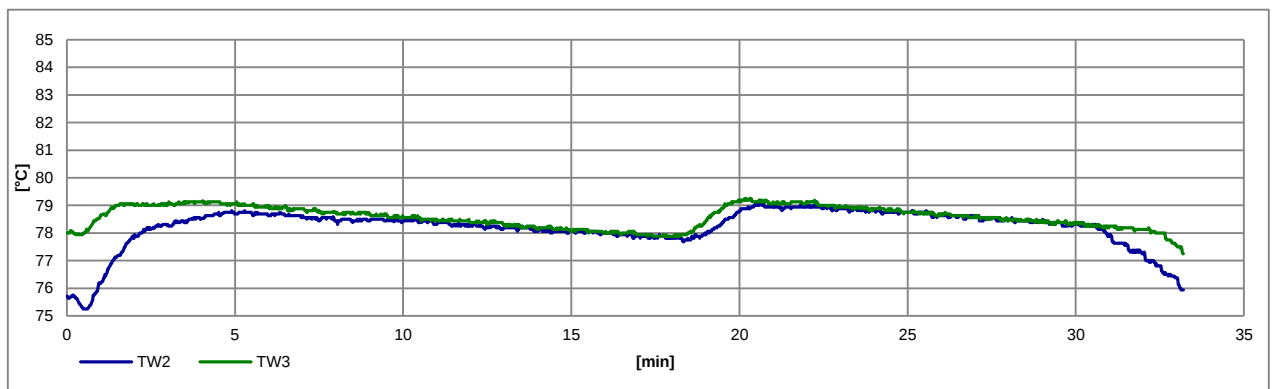
The test was carried out at:	Name: Internationale Hydraulik Akademie GmbH
	Address: Am Promigberg 26 D-01108 Dresden-Weixdorf
Inspector:	Date: 29.01.2016
 R.Schramm	

Measuring data – Fire endurance test

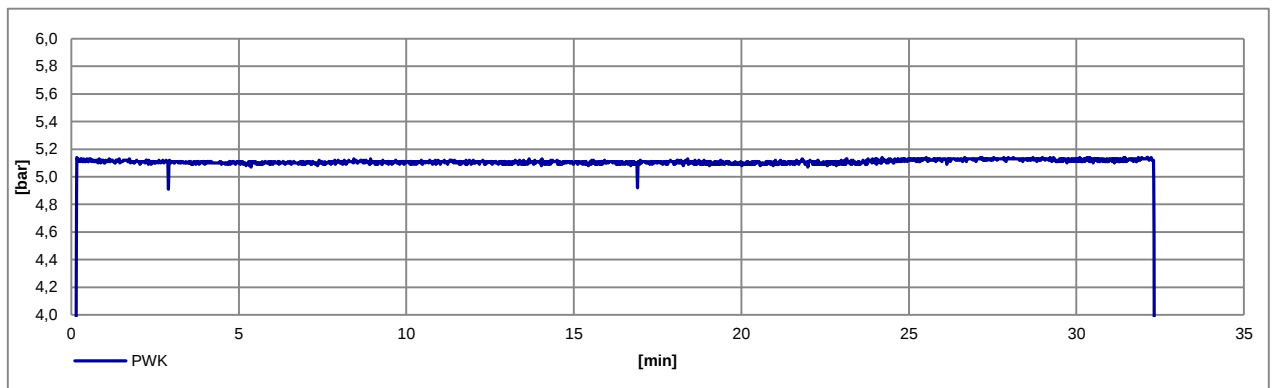
flame temperature



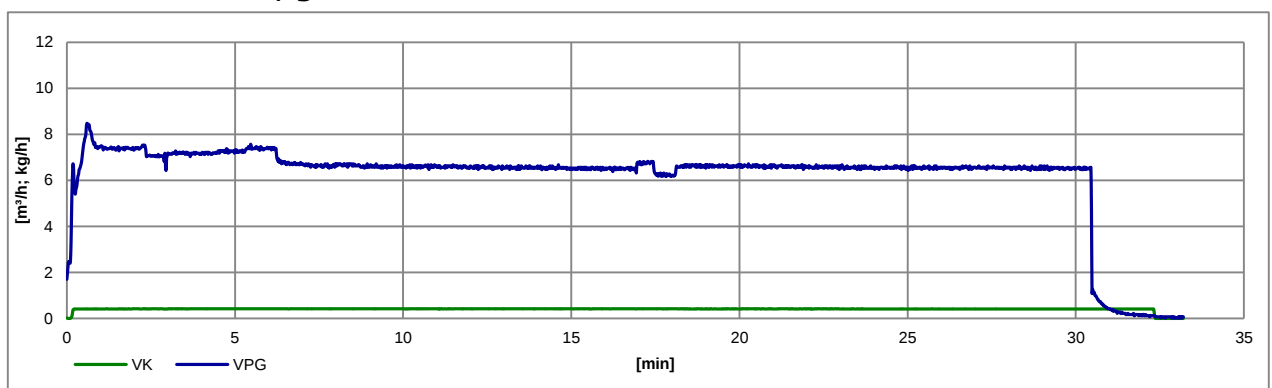
water temperature



water pressure

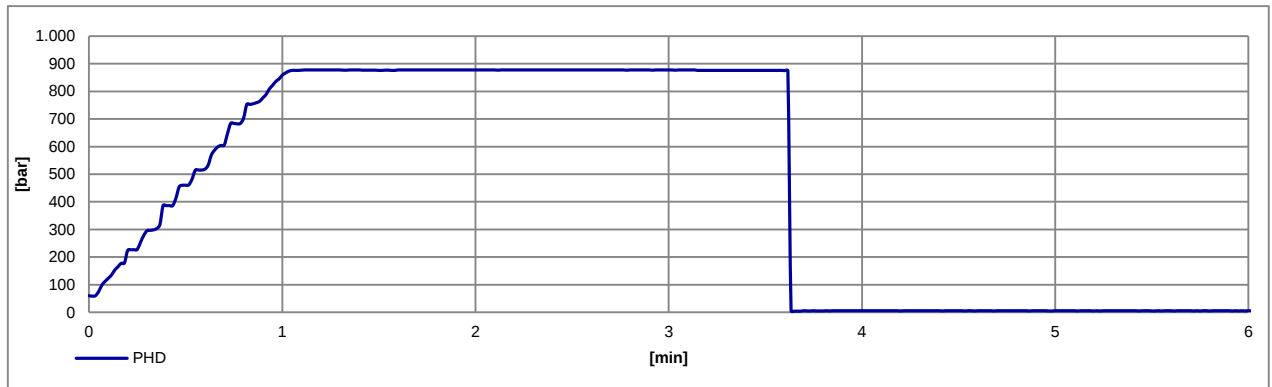


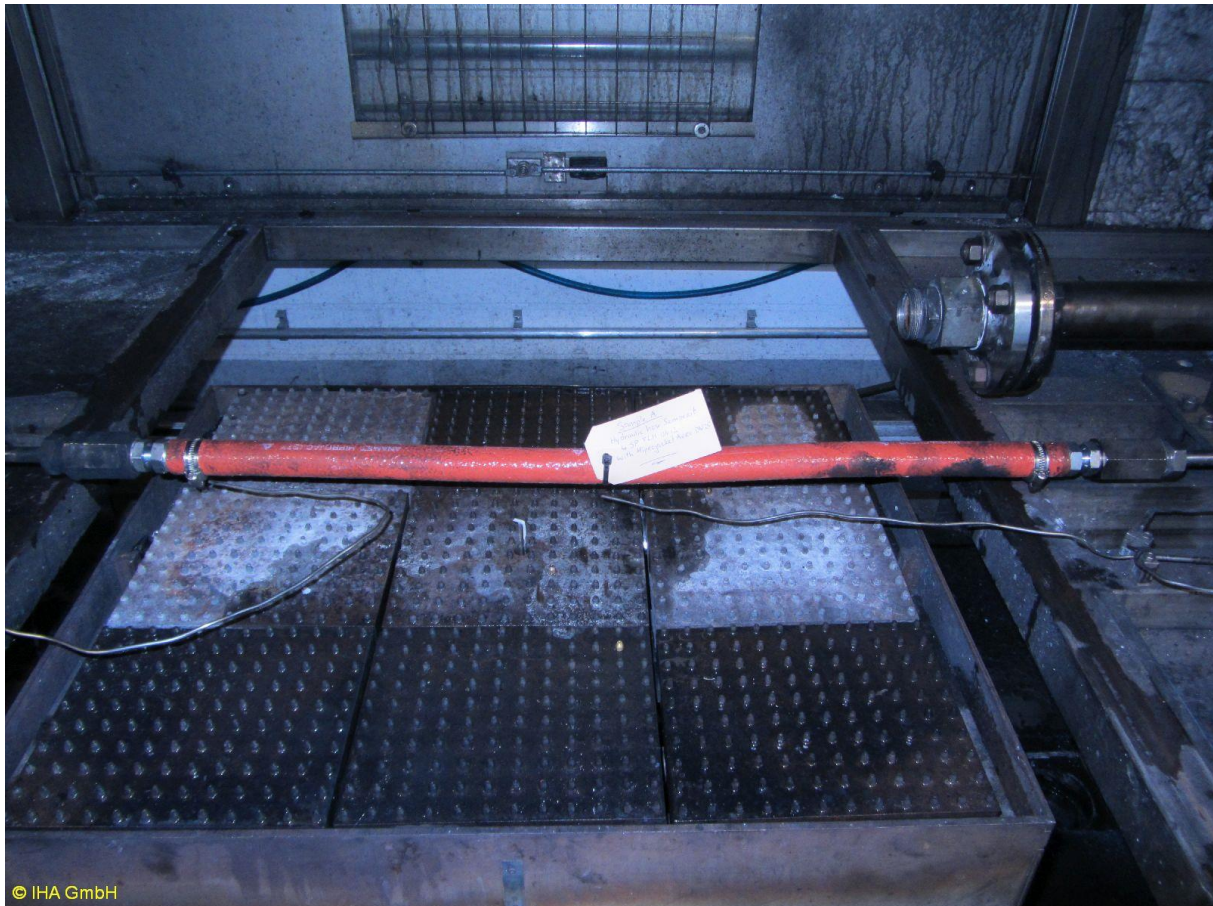
water volume flow, gas mass flow

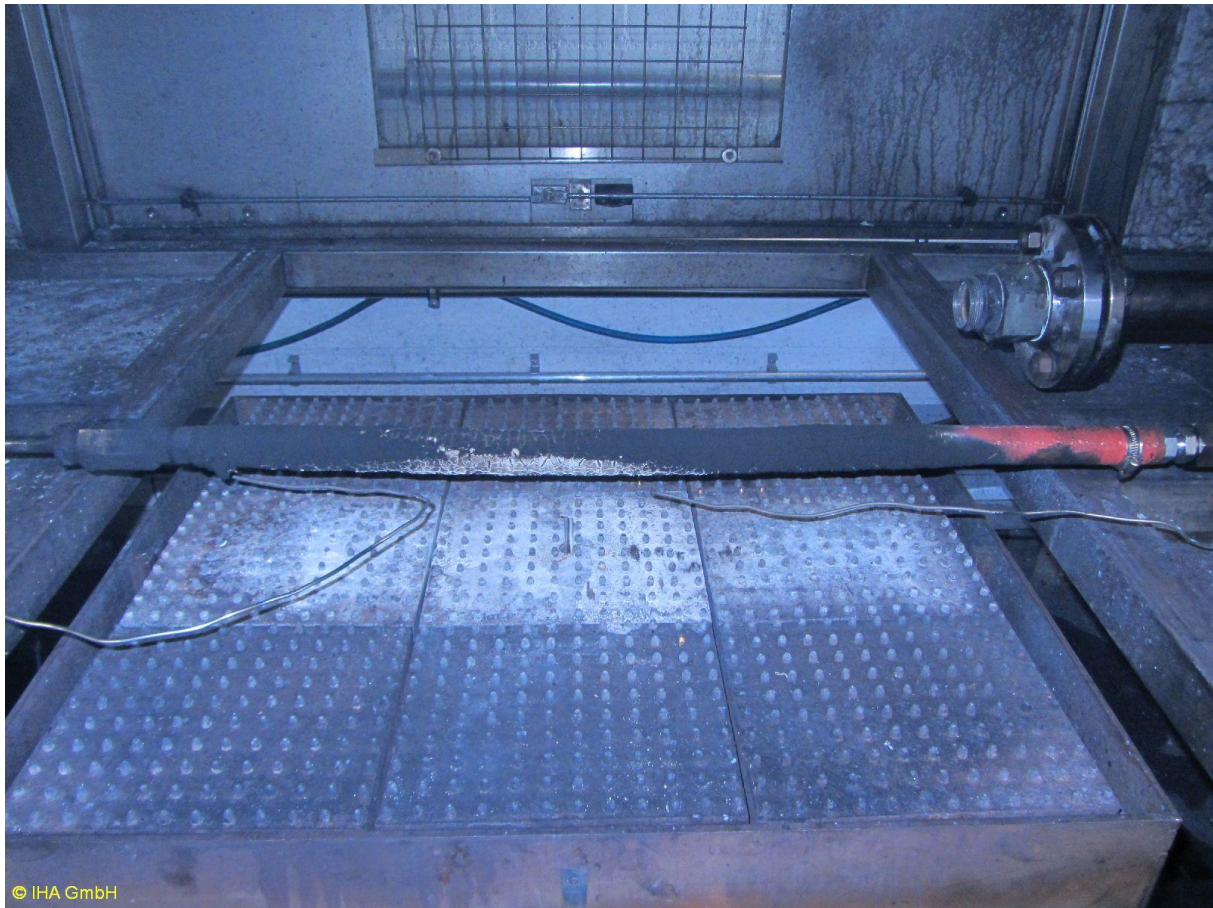


Measuring data – Pressure test

water pressure







© IHA GmbH