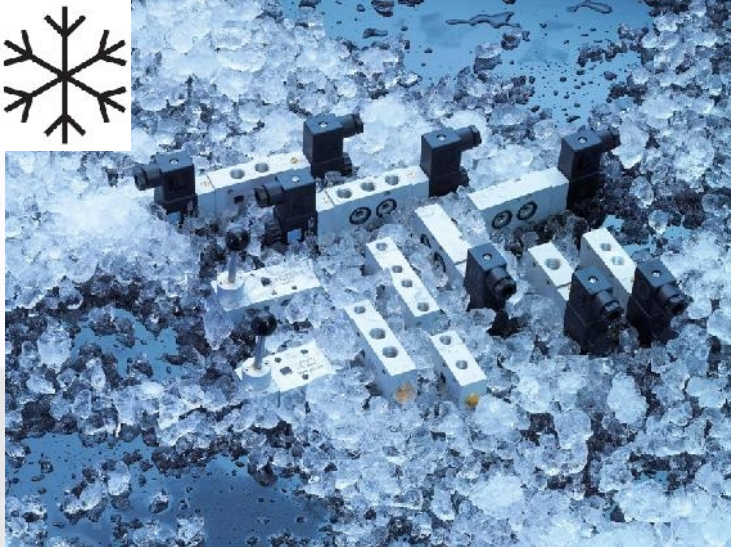


The series „Hafner on the Rocks“ and „Hafner Heavy Metal“ are designed for challenging environments and applications.

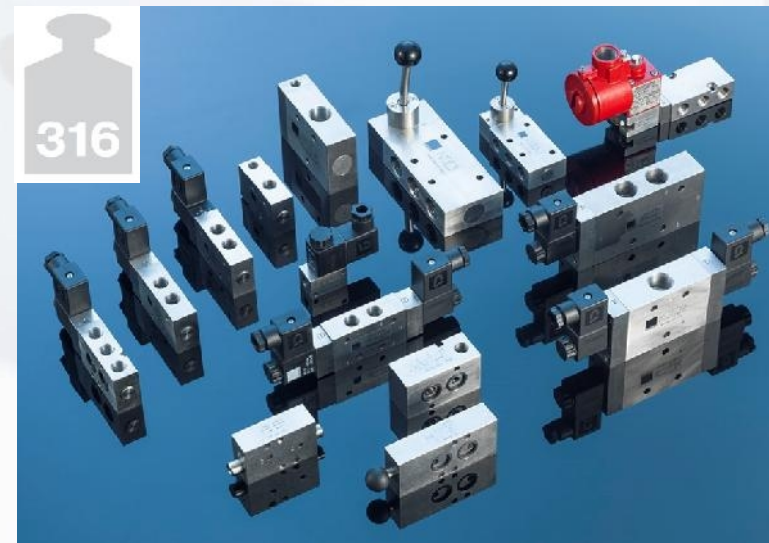


#### „Hafner on the Rocks“

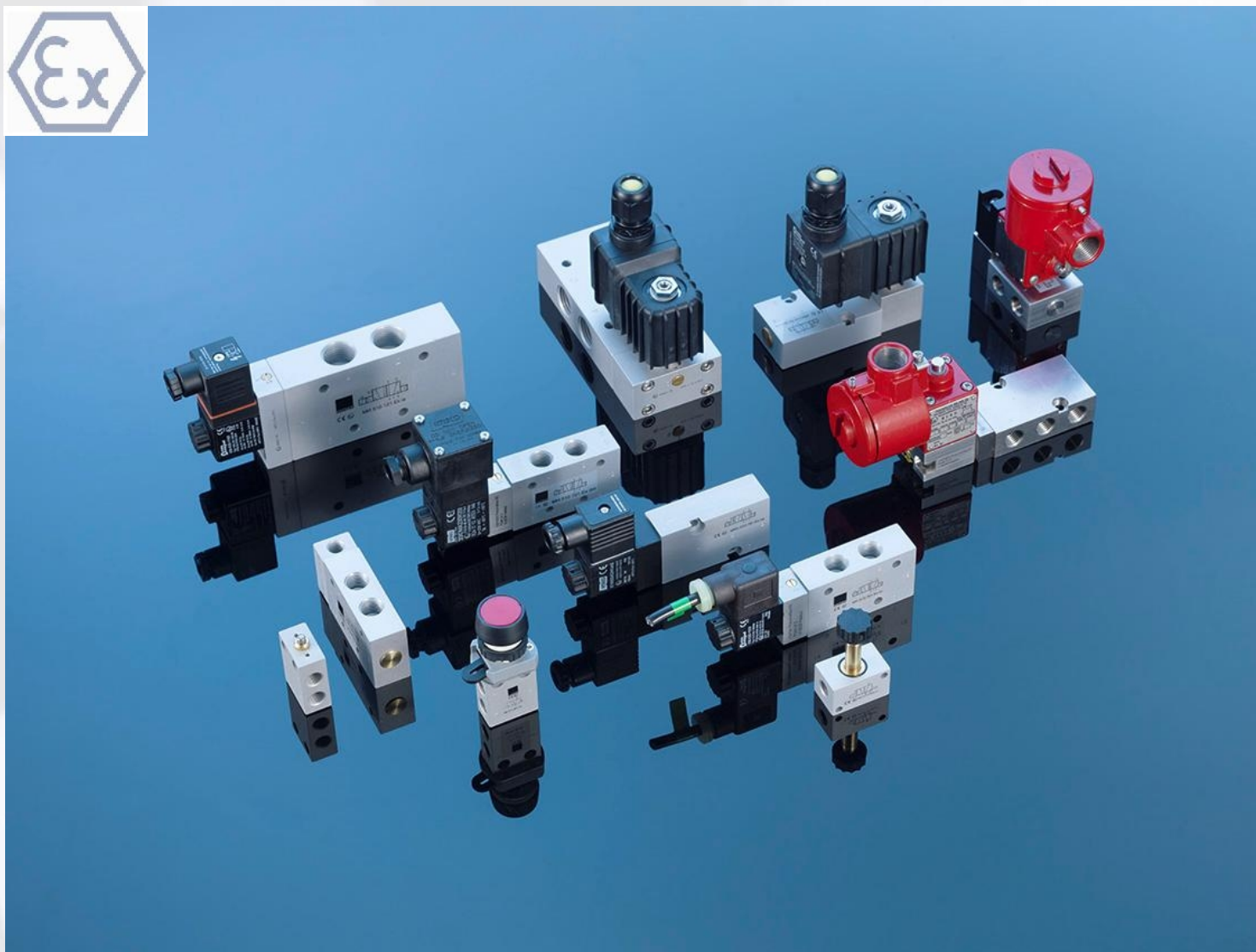
- Temperature range: **-50°C** to +50°C
- Available in G 1/8", G 1/4" and G 1/2"
- TR-certificate for the Russian market available.
- Also available with ATEX-approved low temperature solenoid systems.

#### „Hafner Heavy Metal“











- Valves made from high-grade stainless steel **316L = 1.4404**
- Available in G 1/4" and G 1/2"
- High resistance against aggressive environmental conditions



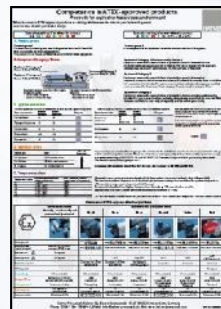
For explosion hazardous environments, our customers have the choice of a wide range of ATEX-approved valves for zones 1, 2, 21 and 22.



# Overview of ATEX-approved Hafner products.

	Non-Electric Valves	Electric Valves (Solenoid Valves)					
	Manually, mechanically and pneumatically actuated	Ex nA	Ex ia	Ex m	Ex e mb	Ex dm	Ex d
							
Marking on coil	-	CE Ⓢ II 3G Ex nA IIC T5 Gc X II 3D Ex tc IIC T5 Dc X (T6 coil: T6/80°C Dc)	CE Ⓢ II 2G Ex ia IIB/IC T6 Gb II 2D Ex tb IIC T80°C Db IP65	CE Ⓢ II 2G Ex mb IIC T4 Gb II 2D Ex mb tb IIC T130°C Db	CE Ⓢ II 2G Ex e mb IIC T6 Gb II 2D Ex tb mb IIC T80°C Db	CE Ⓢ II 2G Ex db mb IIC T5 Gb II 2D Ex tb IIC T85°C Db	CE Ⓢ II 2G Ex db IIC T6 Gb II 2D Ex tb IIC T85°C Db
Marking on valve (standard version)	CE Ⓢ II 2G/D c T6 -10°C ≤ Ta ≤ 50°C alternative: CE Ⓢ II 3G/D c T6 -10°C ≤ Ta ≤ 50°C	CE Ⓢ II 3G/D c T5 -10°C ≤ Ta ≤ 50°C II 3G/D c T6 -10°C ≤ Ta ≤ 50°C	CE Ⓢ II 2G/D c T6 -10°C ≤ Ta ≤ 50°C	CE Ⓢ II 2G/D c T4 -10°C ≤ Ta ≤ 50°C	CE Ⓢ II 2G/D c T6 -10°C ≤ Ta ≤ 50°C	CE Ⓢ II 2G/D c T5 -10°C ≤ Ta ≤ 50°C	CE Ⓢ II 2G/D c T6 -10°C ≤ Ta ≤ 40°C
Stainless steel 	On request	✓	✓	✓	✓	✓	✓
Low temperature 	On request	-	-40°C	Only -20°C	-40°C	-50°C	-40°C (-50°C on request)
Electrical connection	-	Connector for 6-8 mm cable diameter	Connector for 6-8 mm cable diameter	Moulded cable (3 meter standard)	Junction box	Junction box	Junction box
IECEx Approval	-	-	✓	✓	✓	-	On request
Product Group	II (I not included)	II (I not included)	II (I not included)	II (I not included)	II (I not included)	II (I not included)	II (I not included)
Category / Zones	2G/D (zones 1,21,21,22) alternative: 3G/D (zones 2,22)	3G/D (zones 2,22)	2G/D (zones 1,21,2,22)	2G/D (zones 1,21,2,22)	2G/D (zones 1,21,2,22)	2G/D (zones 1,21,2,22)	2G/D (zones 1,21,2,22)
Ignition protection	Constructional safety	Non-sparking	Intrinsic safety	Encapsulation	Increased safety/Encapsulation	Encapsulation/Flameproof	Flameproof
Explosion group	Only applies for solenoid valves	IIC (includes IIA and IIB)	IIC (includes IIA and IIB)	IIC (includes IIA and IIB)	IIC (includes IIA and IIB)	IIC (includes IIA and IIB)	IIC (includes IIA and IIB)
Temperature class	T6 (includes T1-T5)	T5 coil includes T1-T4 T6 coil includes T1-T5	T6 (includes T1-T5)	T4 (includes T1-T3)	T4 coil includes T1-T3 T6 coil includes T1-T5	T5 (includes T1-T4)	T6 (includes T1-T5)

**Hafners' ATEX poster:**  
Ideal for internal use and  
giveaway to customers.



Next to individual valves and components, Hafner is also offering complete systems and control cabinets.

Normally we use a standardized box to build our control cabinets:

- Size: 400x280x155 mm
- IP 66 protection
- Material: Stainless steel AISI 304



Further information can be found in our brochure **Control Cabinets Built by Hafner**.