

STÖHR VALVES

Springless non-return valve.

Very low pressure differential reduces energy losses in open condition.

Low contamination due to springless design.

Eliminates shutter vibration.

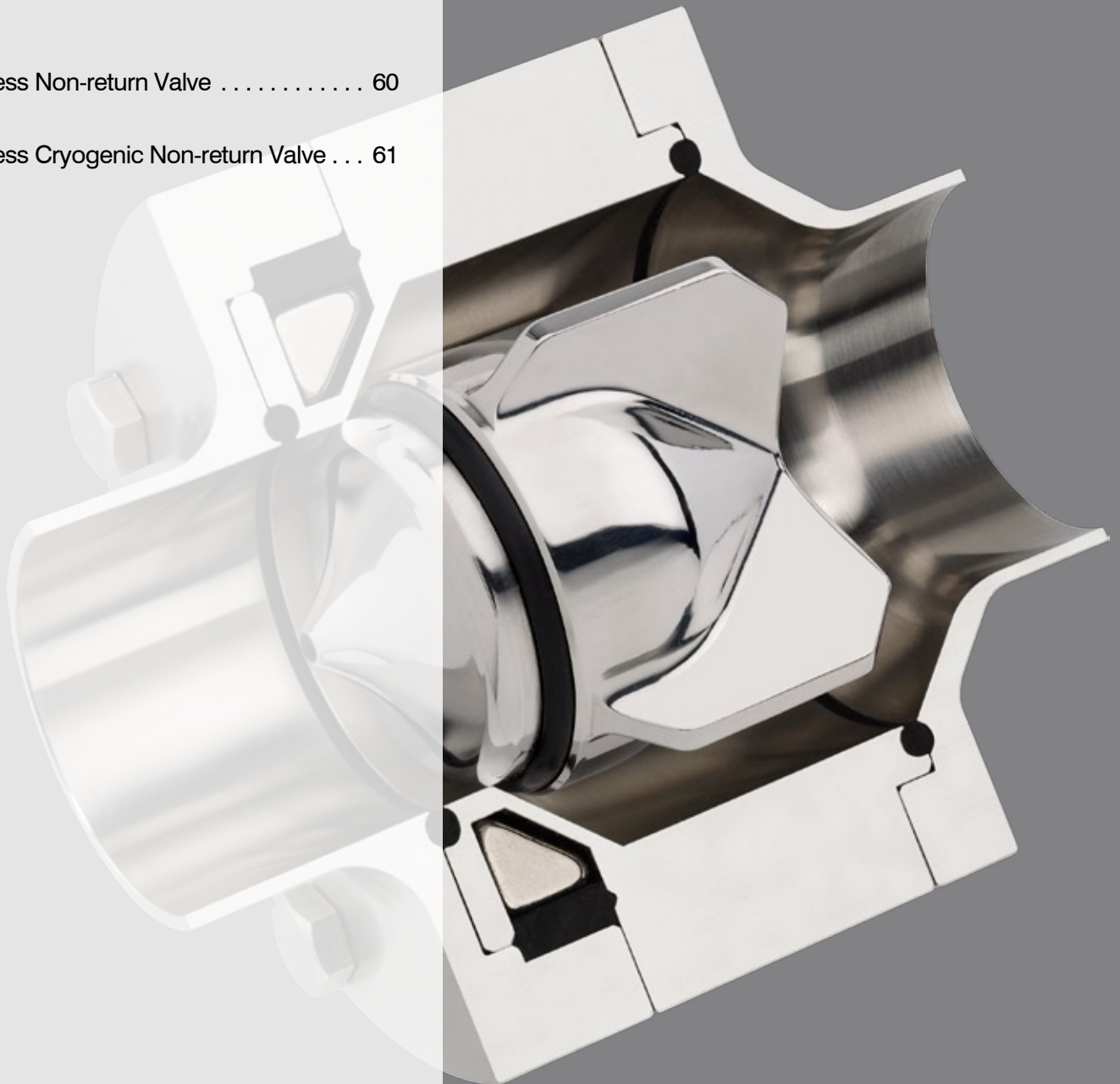
Maintenance free.

Please read and follow these safety instructions:
The STÖHR product catalogue, checklists, our sales personnel and our sales representatives will assist you in identifying and selecting your valve. The decision regarding a special valve type to choose as well as the proper installation, commissioning, operation and maintenance is, however, the responsibility of the system designer and user. The valve function, the type of sealing, material compatibility, operating pressure, operating temperature and the system environment must be taken into account.

Magroš

Springless Non-return Valve 60

Springless Cryogenic Non-return Valve . . . 61



Magros¹⁵⁰⁰

The springless Non-return Valve

Magros*** is the reliable and high-quality springless non-return valve made from stainless steel for gases and liquids with low pressure drop in open position. The valve body is machined from one piece of solid stainless steel. End connections in butt-welded execution as standard. Further specifications on request.



Technical data	
Service fluid	N ₂ , O ₂ , Ar, H ₂ , He, N ₂ O, CO ₂ , NG*
Operation temp.: service fluid	-40° C to +50° C
Operation temp.: environment	-40° C to +50° C
Body shape	straight
Seat sealing	metal/soft seal
Sealing to atmosphere	metal-C-ring, He leakage rate to atmosphere 1 x 10 ⁻⁸ mbar l/s
Surface treatment	turned, ground, electro-polished or passivated**
Minimum opening pressure	≤ 0,1 bar
Installation position	horizontal
Body material	stainless steel
Certification	DIN EN 10204/3.1 B AD2000-A4

Ygros Valves is the owner of the industrial property right.



DN	PN	end connection d x t x l	drawing no.			
6	40	8,0 x 1,0 x 25	08-1500			
8	40	10,0 x 1,0 x 25	08-1501			
10	40	12,0 x 1,0 x 25	08-1502			
15	40	18,0 x 1,5 x 25	08-1503			
20	40	23,0 x 1,5 x 25	08-1504			
25	40	28,0 x 1,5 x 30	08-1505			
32	40	35,0 x 1,5 x 30	08-1506			
40	40	41,0 x 1,5 x 35	08-1507			
50	40	53,0 x 1,5 x 50	08-1508			
65	40	70,0 x 2,0 x 50	08-1509			
80	40	85,0 x 2,0 x 50	08-1510			
100	40	104,0 x 2,0 x 50	08-1511			

* All dangerous, toxic, acid fluids with material selection.
 ** Execution of the surface treatment to customer specifications.
 *** IPR © Ygros Valves

Dimensions for straight valves. All lengths in [mm].
 Imperial and ISO dimensions possible.

Certificates

Key aspects of the Quality Programme

Rules and standards:

STÖHR ARMATUREN standard is the Pressure Vessel Code (DruckGRL).

Optional are rules like ASME, KTA etc.

Existing testing facilities:

- hydraulic pressure test up to 1600 bar
- helium leak test by He leak detector
to $\leq 1,0 \times 10^{-10}$ mbar l/sec. at room temp. and -196°C
- oxygen-compatible surface cleaning possible
- surface improvement by grinding and electro-polishing to $Ra \leq 0,25\mu\text{m}$ possible
- clean room assembly to class 100 possible.
- welding with valid WPQ (Welding Procedure Qualifications) and welder's performance qualification
- 100% test record of the welding seams (acc. to DIN EN 473) by:
 - visual test
 - surface crack test
 - ultrasonic test
 - X-ray examination.

Existing certifications:

- AD2000-HPO
- DIN 2303 - Q2 BK2
- DIN EN ISO 9001:2008
- Pressure Vessel Code - module H
- KTA 1401
- Qualification for transfer of identification acc. to AD2000-HPO

