

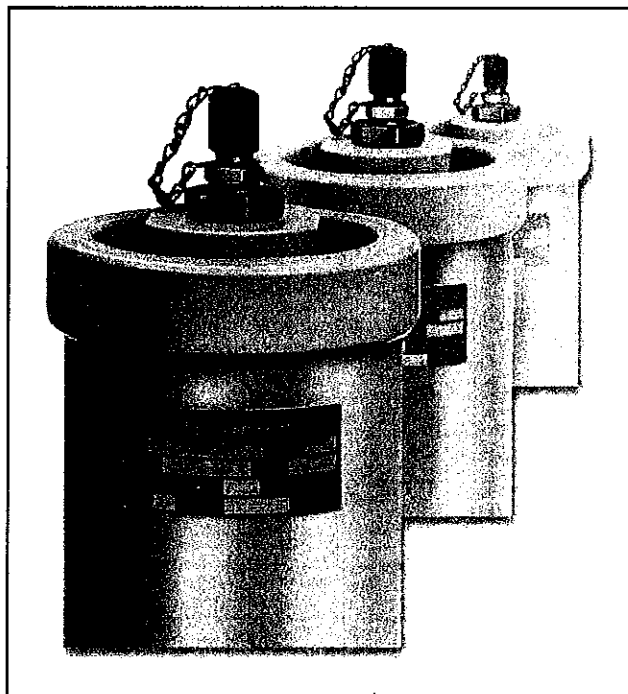
Accumulator charging and testing devices

Easy-to-use gas charging valves with leak proof integrity are required for charging, discharging and pressure testing of hydraulic accumulators. HYDROTECHNIK fulfills these requirements with its gas charging valves.

The quality of a gas charging valve is essential for the long term use in plants with high safety regulations. The valves are easy to use with a safe and reliable connection.

The essential advantages:

- Very good leak proof integrity, leakage $< 2 \times 10^{-6}$ mbar l s⁻¹ within allowed operating temperatures of -20°C to +135°C
- The application and construction is common with the MINIMESS®-coupling, which has been proven over many, many times
- Automatic opening of the gas charging valve when connecting a hose assembly
- Superior and safer manual connection without additional tools
- For different accumulator designs, suitable adapters are available
- Military authorised



Gas charging valves can be applied where hydraulic accumulators are used, for example in:

Mobile hydraulics

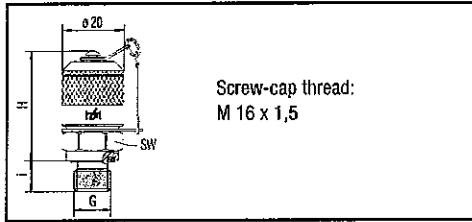
- Pressure energy source for power brake and steering boosters
- Spring element in the construction of vehicles and in stationary plants

Permanent hydraulic plant

- Maintaining the pressure in fastening devices, presses and pressing devices
- Additional sources of energy in stationary plant

MINIMESS®-gas charging valve 1615

Maximum working pressure 63 MPa



Screw-cap thread:
M 16 x 1,5

Compatible with the following media

Inert gases, nitrogen and compressed air. Resistant against antifreeze, oil, anti corrosion oil, grease and fuel.

| Thread G | Type of sealing A | Torque in Nm | Technical data | | | | | Operating temperature range | Coupling material | Part-number with FKM sealings |
|---------------|----------------------|--------------|----------------|---------|---------|----------|--------------------|-----------------------------|-------------------|-------------------------------|
| | | | p max | H in mm | i in mm | SW in mm | | | | |
| M 12 x 1,5 | Form F | 30 | 63 MPa | 36,5 | 8,5 | 17 | -20 °C bis +135 °C | 1.4571 | 2402-01-13.50 | |
| M 14 x 1,5 | | 40 | | 36,5 | 10 | 19 | | 1.4104 | 2402-01-14.00 | |
| ISO 228-G 1/4 | | 40 | | 36,5 | 10 | 19 | | | 2402-01-18.00 | |

Recorded with inspection certificate 3.1 B in accordance to DIN EN 10204, certificate 2.2. in accordance to DIN EN 10204

| | | | | | | | | | |
|------------|--------|----|--------|------|----|----|--------------------|--------|---------------|
| M 14 x 1,5 | Form B | 40 | 63 MPa | 36,5 | 10 | 19 | -33 °C bis +135 °C | 1.4104 | 2402-01-49.70 |
|------------|--------|----|--------|------|----|----|--------------------|--------|---------------|

Material

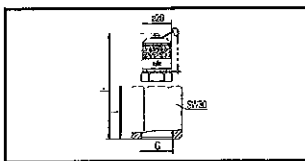
Body: 1.4104 (C4)
Pressure spring: 1.4310
Screw cap: brass (blackened)

Sealing

Internal primary and secondary sealing as well as integral seat seal and anti vibration O-ring (to prevent loosening of the metal cap) made of Viton.

Attention: Before using oxygen, please ensure you rinse and clean the gas charging valve.

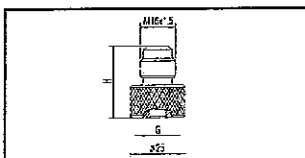
Adapter incorporating gas charging valve 1615 made of stainless steel



| Thread of accumulator | Type of hydraulic accumulator | p max | Material | H in mm | I in mm | SW in mm | Part-number with FKM - sealing |
|-----------------------|-------------------------------|--------|----------|---------|---------|----------|--------------------------------|
| 7/8"-14 UNF | Bosch-bubble accumul. | 63 MPa | 1.4104 | 73 | 36 | 30 | 2446-16-30.00 |
| M 28 x 1,5 | Bosch-diaphragm accumul. | | | 63 | 26 | 36 | 2446-18-30.00 |

Gas charging valve adapter 1615

To be directly screwed on the original valve of the accumulator



| Thread of accumulator | Type of hydraulic accumulator | p max | Material | H in mm | Part-number with FKM - sealing |
|-----------------------|-------------------------------|--------|----------|---------|--------------------------------|
| VG 8 DIN 7756 | Langen | 63 MPa | 1.0718 | 32 | 5414-02-00.00 |
| 5/16"-32 UNEF | US | | | 32 | 5414-02-10.00 |

Surface protection: galvanized and chromated. Further screw-in threads on request.