

The standard type gas valve used in Hydroll piston accumulator is HGV1620 (Minimess 1620), M16 x 2 with operation temperature range -25°C to +80°C. The optional type M16 x 2 arctic is used in arctic conditions with operation temperature from -45°C to +80°C.



DANGER: Use only dry nitrogen (N₂). Air or oxygen could cause an explosion.



WARNING: Please follow these instructions accurately in order to prevent risk situations and air access to accumulator. Only trained and qualified individuals should perform installation and maintenance on the accumulators.



ATTENTION: Check the preliminary filling pressure within one week of filling and thereafter at twelve-month intervals. By attending to leakages, damage to the accumulator and the system is prevented.



IMPORTANT: Please note that temperature will have an effect on the nitrogen pressure. The manufacturer will indicate the pre-charge pressure (P₀) at +20°C. The pressure change will comply with formula $P = P_0 * (T + 273) / 293$. More information of temperature effect, see Hydroll / Piston accumulator installation and operation manual.

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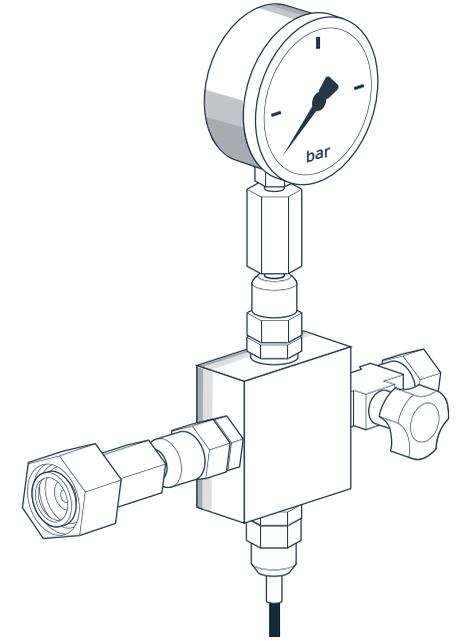
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HPCK CHARGING UNIT OPERATION MANUAL

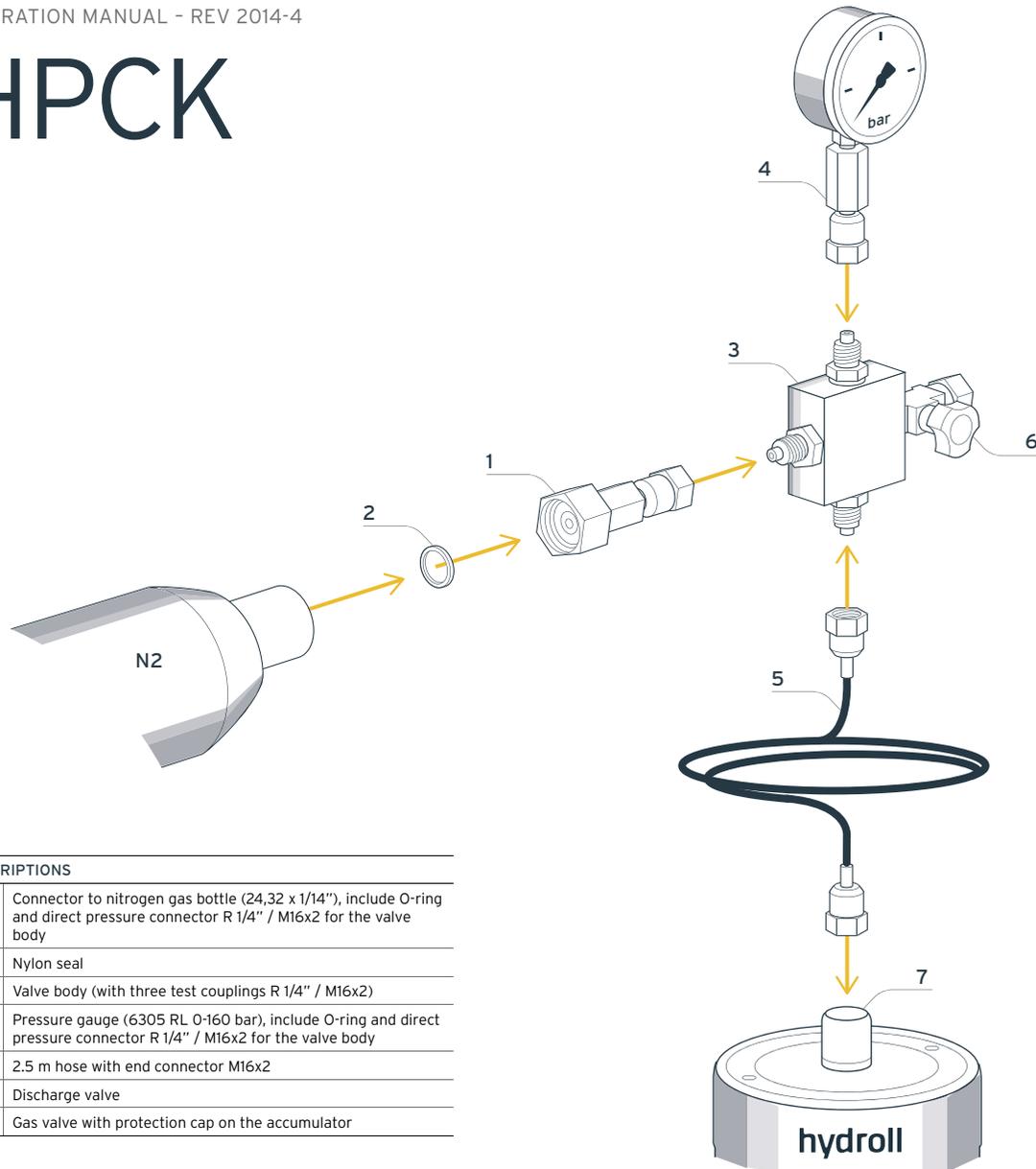
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HPCK CHARGING UNIT

HPCK charging unit is suitable for gas valves with M16 x 2 mm thread used in Hydroll piston accumulators. In the HPCK charging unit the connector to nitrogen gas bottle is size: 24,32 x 1/14".

HPCK



DESCRIPTIONS

1	Connector to nitrogen gas bottle (24,32 x 1/14"), include O-ring and direct pressure connector R 1/4" / M16x2 for the valve body
2	Nylon seal
3	Valve body (with three test couplings R 1/4" / M16x2)
4	Pressure gauge (6305 RL 0-160 bar), include O-ring and direct pressure connector R 1/4" / M16x2 for the valve body
5	2.5 m hose with end connector M16x2
6	Discharge valve
7	Gas valve with protection cap on the accumulator

PRE-CHARGE OPERATION FOR ACCUMULATOR

1. Fix the gas bottle connector (1), pressure gauge (4) and hose (5) to the body.
2. Connect the charging unit to the nitrogen bottle with connector (1). Use the adjusting key. Remember the nylon seal (2).
3. Make sure that the discharge valve (6) is closed before proceeding.
4. Remove the gas valve protection cap (7) on the accumulator.
5. Gently connect charging units hose / end connector (5) to gas valve on the accumulator (7), hand tight only.
6. Check pre-charge pressure on the pressure gauge (4).
7. If needed, increase the pre-charge pressure by opening gas bottle valve gently. Charge gas pressure to wished value. Wait for a while (5 min) to get pressure settled. Charge more if needed.
8. If needed, decrease the pre-charge pressure by opening the discharge valve (6) on the

9. When pre-charge pressure has been set, gently disconnect (by hand) the hose end connector (5) from the gas valve on the accumulator (7).



WARNING:

Make sure that you are not unscrewing the gas valve!

10. Connect gas valve protection cap (7) back to the accumulator.
11. Disconnect the valve body (3) with the gas bottle connector (1) from the nitrogen bottle.
12. Check with soap water or other leak detector liquid gas valve (7) for leaks.