

HAAKON ELLINGSEN COMPACT PANELS

- OPTIONS & TECHNICAL DATA



HAAKON ELLINGSEN COMPACT MODULAR PANELS

In year 2000, Haakon Ellingsen AS launched compact modular 316SS/ATEX pneumatics to the Norwegian oil & gas market. As the first company in our branch, we could offer new technology to system builders, engineering- and oil & gas companies.

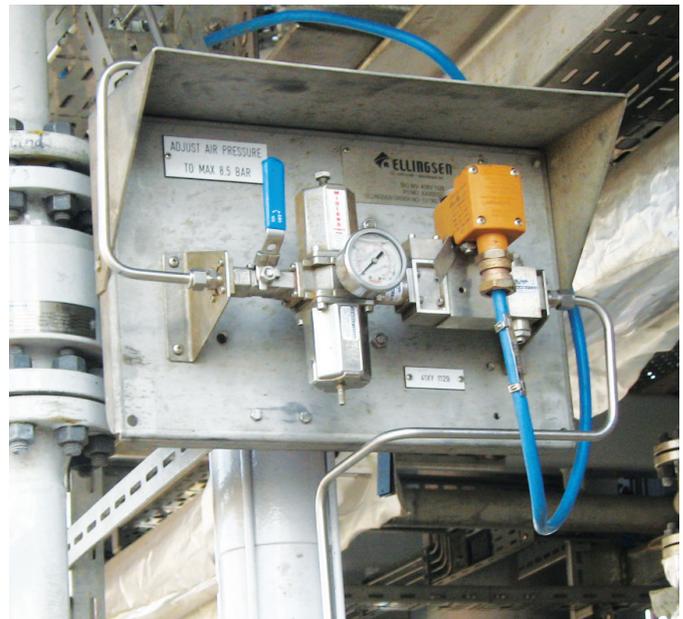
The technology is to connect various pneumatic control elements together without the need of tubing & fittings.

The modularity is obtained by universal interface blocks drilled with mounting holes.

Each control element such as solenoid valves, filter-regulator, non-return valves, manual shut-off valves, speed regulators (non shut-off) and others do also come with mounting holes.

Therefore any combination is possible to be obtained without tubing and fittings.

- Reduced material cost
- Reduced manhour/workshop cost
- Reduced space
- Reduced weight
- Reduced number leakage points



The oil & gas companies do have specific pneumatic circuitry for control panels and systems to operate pneumatic actuated utility- and process valves. With our compact modular system we easily build and comply with any specification and sizes.

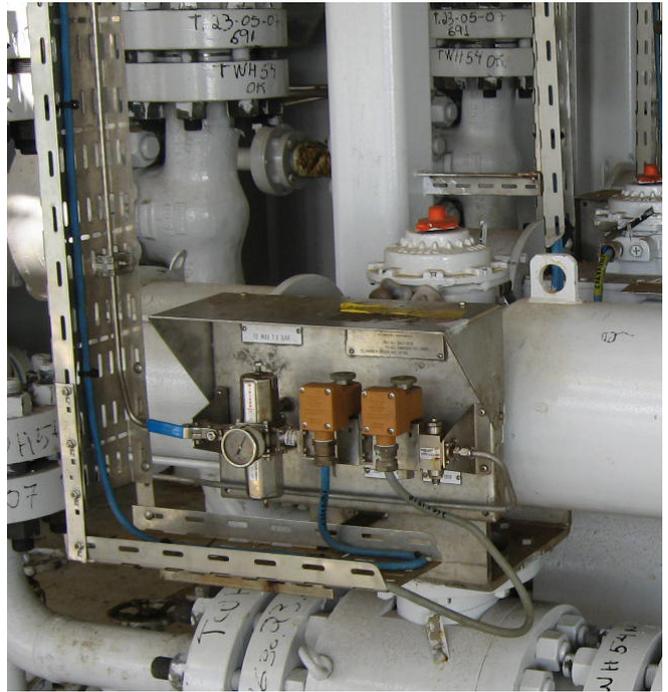
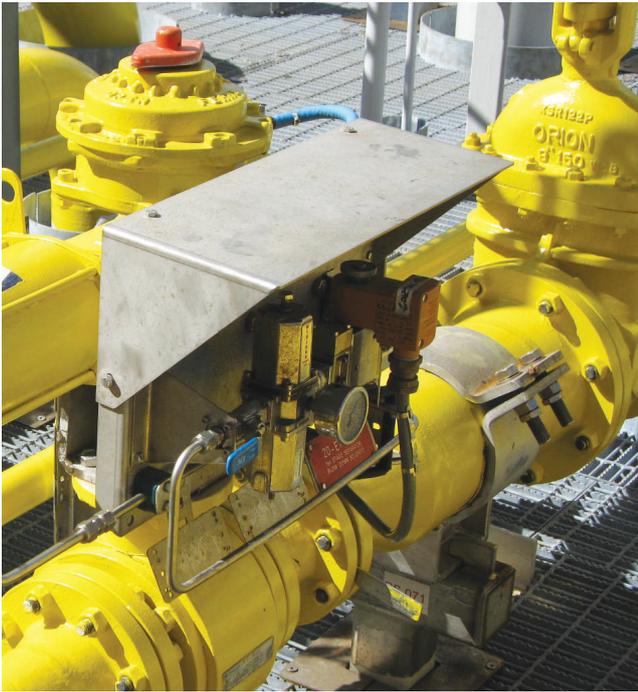
We comply with ATEX, IECEx and NTRL (UL, FM, CSA).

In addition we also offer any size closed loop arrangement based on the same technology. Closed loop arrangement are fitted on the pneumatic actuator to protect the cylinder housing and spring from ingress of salty atmosphere and any other debris.

Haakon Ellingsen AS offer workshop at Skui near Oslo and at Ågotnes, near Bergen. We assemble actuators with limit switch arrangement, compact modular control panels onto any process valve using closed bracketry solutions. Closed bracketry to protect humans and avoid any damage, also to protect critical areas on the assemblies.

Our project department serve our customers with excellent support and project documentation.

References: Equinor ASA, Vår Energi AS, AkerBP ASA, OKEA, Norske Shell ASA



COMPACT MODULAR PANELS

Haakon Ellingsen AS offers standard compact modular control panels for PSD, ESD and BDV applications. All other configurations and customized solutions are available from our engineering department.

Our speciality is modular design with high focus on weight and space savings, life cycle cost (LCC), shorter down time, plug and play replacement and simplified service. Module-based control panels reduce the risk of leakage compared to traditional fitting and tubing solutions.

HECPA-D-UP-PD

1/4" ESV type for Single acting 1 pcs Autoreset 3/2 NC, 1 pcs Manual reset 3/2 NC, without back plate, with NRV and Bi-directional flow regulator



HECPA-A-UP-PD

1/4" XV type for Single acting 1 pcs Autoreset 3/2 NC, without back plate, with NRV and Bi-directional flow regulator



HECPA-B-UP-PD

1/4" BDV type for Single acting, 2 pcs Autoreset 3/2 NC, without back plate, with NRV and Bi-directional flow regulator



HECPA-G-UP-PD

1/4" HV type for Double acting 1 pcs Monostabil 5/2, without back plate, with NRV and Bi-directional flow regulator



HECPA-F-UP-PD

1/4" HV type for Double acting 1 pcs Bistabil 5/2, without back plate, with NRV and Bi-directional flow regulator

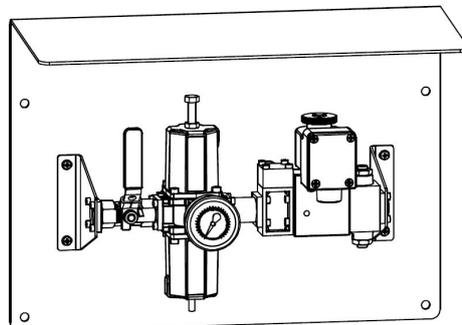


BACKPLATE OPTIONS

Haakon Ellingsen AS offer a selection of backplate options. Other options is available upon request.

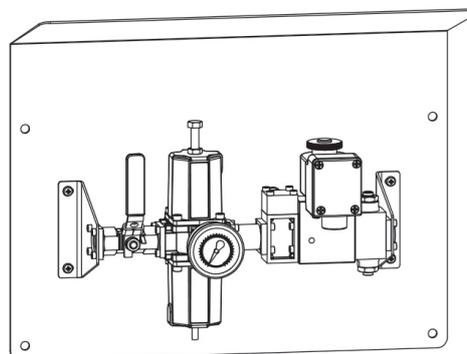
MP Standard back plate

Folded 316SS back plate with integrated roof



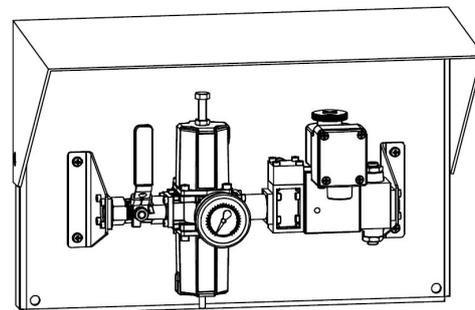
TR back plate

Folded 316SS back plate with integrated roof designed to drain water to the back side



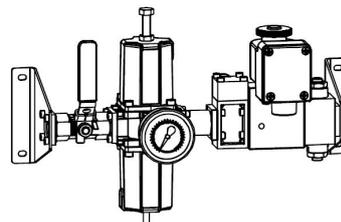
EP Heavy duty back plate

Strengthened 316SS back plate with removable roof



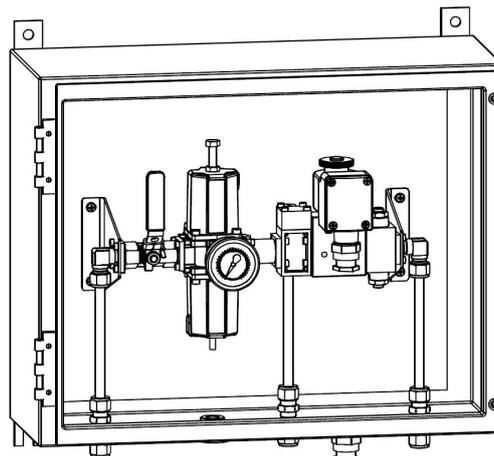
UP Without back plate

Unit supplied with mounting bracket only



MC Cabinet

Manifold mounted in 316SS cabinet



HAAKON ELLINGSEN COMPACT MODULAR PANELS

- CHART

	HECPA	D	UP	PD	R
Size HECPA: 1/4" HECPB: 1/2" HECPC: 3/4" HECPD: 1"					
Type A XV type for Single acting 1 pcs Autoreset 3/2 NC (TR0038 Type 1) B BDV type for Single acting, 2 pcs Autoreset 3/2 NC C BDV type for Single acting, 1 pcs Autoreset 3/2 NO, 1 pcs Autoreset 3/2 NC (TR0038 Type 14) D ESV type for Single acting 1 pcs Autoreset 3/2 NC, 1 pcs Manual reset 3/2 NC (TR0038 Type 2) E ESV type for Single acting 3 pcs Autoreset 3/2 NC F HV type for Double acting 1 pcs Bistabil 5/2 G HV type for Double acting 1 pcs Monostabil 5/2 H With 1/4 Manual reset - New version I With 1/4 Manual reset - Old version J Manual reset for 1/2" manifold					
Mounting back plate MP Standard back plate TR Standard back plate with modified roof EP Heavy duty back plate UP Without back plate MC Manifold mounted in 316SS cabinet					
Alternatives PD With NRV and Bi-directional flow regulator 01 Without NRV, but with Bi-directional flow regulator 02 With NRV, but without flow regulator 03 With NRV and Uni-directional flow regulator 04 With NRV, but without flow regulator, anxillary outlet 05 Without NRV and without flow regulator, anxillary outlet 06 Without NRV, but with Bi-directional flow regulator, anxillary outlet 07 With NRV and Bi-directional flow regulator, anxillary outlet 08 With NRV and Uni-directional flow regulator, anxillary outlet					
Options R Relief valve - make sure to specify relief pressure OPD Over Pressure Device - make sure to specify set and relief pressure TF Thermal Fuse - make sure to specify relief temperature L Low temperature version - please advice needed minimum operating/ambient temperature					

* Example

HECPA-D-UP-PD-R: 1/4" XV type for Single acting 1 pcs Autoreset 3/2 NC, without back plate, with NRV, Bi-directional flow regulator and relief valve.

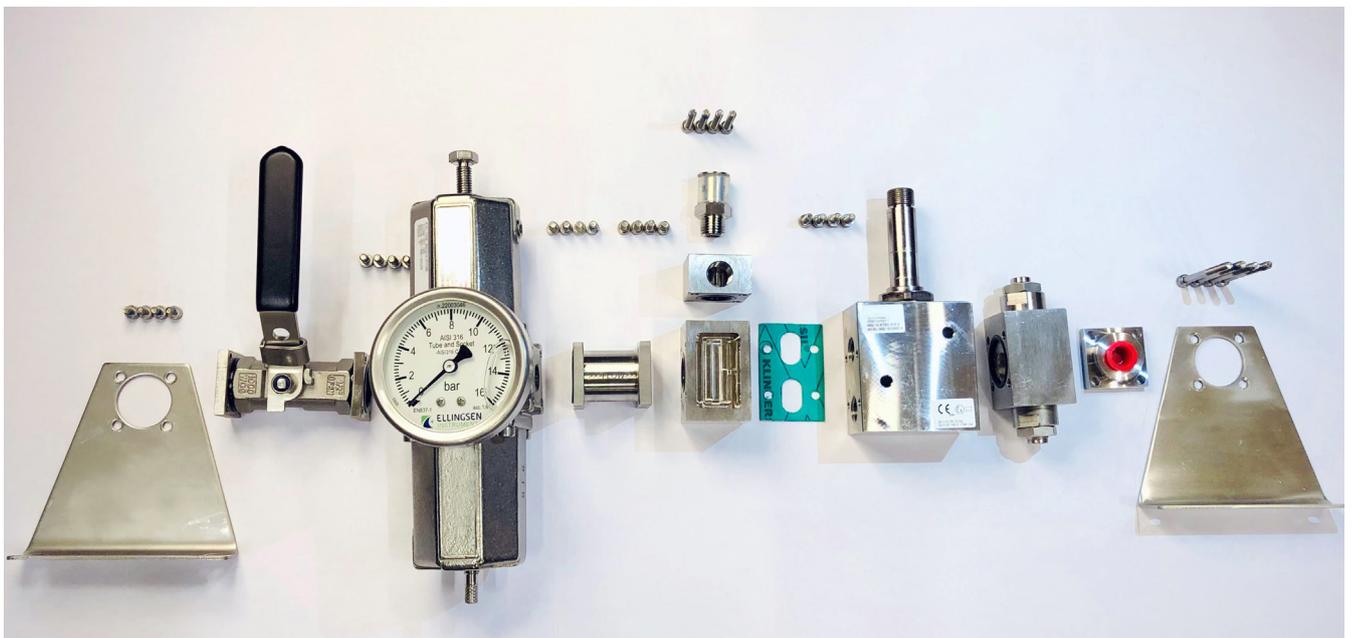
SERVICEABILITY

The compact modular manifolds gives end user the possibility to easily maintain the equipment on site.

Given the reason for maintenance need, the unit can easily be disconnected as a complete unit and replaced with a complete spare manifold.

As an alternative, a specific component within the manifold can also easily be isolated and changed in the field. Each component are bolted together and by unscrewing the bolts, you can slide the component out and replace quickly with a retrofit ready with new interface o-rings.

Both alternatives secure shortest possible action time for the purpose.





ELLINGSEN GROUP

Ellingsen Group consists of the following companies; Haakon Ellingsen AS, Ellingsen Systems AS and Ellingsen Indutech AS.

Ellingsen Group supply products for valves, actuation, instrumentation, pumps and engineered system solutions, to oil & gas, marine and land based industrial market. We combine quality products with decades of experience to design, engineer and provide the most beneficial solutions.

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TO BE OUR CUSTOMERS
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