

Item No	Description	References	Page	Item	Paragraph	Comment / Deviation	Conclusion	Client topics	User Topic 1	User Topic 2	Criticality
1	2. Rotary machines - 2. Compressor - 3. Rotary Type Screw Compressor		All	2.1	Standards	Design, manufacturing and materials of construction according to European and manufacturer standards. ASME and API are not considered.	XXX recommend to XX to accept this deviation	Mechanical Design	Screw compressor	Standard	3
2			3	2.1	Machine monitoring General comment	Only probes for compressor and blower vibration monitoring system considered. Number and location of probes according to manufacturer standard. Racks, communication cards, software, interconnection to control system etc. is not included in scope of supply.	Refer to MOM	Mechanical Design	Screw compressor	Machine monitoring / Vibration	3
3			5	4.7	Bearings	Manufacturer's standard bearing concept shall be possible	XXX recommend to XX to accept this deviation	Mechanical Design	Screw compressor	Bearing	4
4			6	4.9	Lube-Oil and Seal-Oil Systems	Oil system according to manufacturer standard (non API) including oil piping, oil filtering and oil pressure regulating valve. Oil cooling medium air, valve. Oil cooling medium is air.	XXX recommend to XX to accept this deviation	Mechanical Design	Screw compressor	Oil system	3
5			7	5.8	Controls & Instruments	Instrumentation according to manufacturer standard, means switches will be applied. Control of compressor by compressor itself via integrated control unit. Control interface to customer via DCS/ PLC using Modbus RTU.	XXX recommend to XX to accept this deviation	Mechanical Design	Screw compressor	Instrumentation	4

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1	Rotary screw compressors		2	1	Scope	Design of compressor acc. European codes, laws and standards DIN, EN ... (see above), API, ANSI, ASME, NEMA, etc. codes are not considered.	Accepted.	Mechanical Design	Screw compressor	Standard	3
3			3	4.4	Bearings	Manufacturer's standard bearing concept shall be possible. Execution depending on compressor manufacturer's design, providing minimum L10-life time of 40.000 hours.	XXX recommend to XX to accept this deviation	Mechanical Design	Screw compressor	Bearing	4
4			3	4.6-4.8	Lube-Oil and Seal-Oil Systems	Oil system according to manufacturer standard including oil piping, oil filtering and oil pressure regulating valve. Oil cooling medium is air.	Oil piping material shall be made of stainless steel.	Mechanical Design	Screw compressor	Oil system	3
5			4	6.3	Controls & Instruments	Control of compressor by compressor itself via integrated control unit. Control interface to customer via DCS/ PLC using Modbus RTU. Instrumentation itself, according to manufacturer's standard, indicators for pressure/ temperature etc. are applied.	XXX recommend to XX to accept this deviation	Mechanical Design	Screw compressor	Instrumentation	4
2			5	6.4	Machine monitoring General comment	Only probes (SPM nipple) for compressor vibration monitoring system considered. Number and location of probes according to manufacturer standard. Racks, communication cards, software, interconnection to control system etc. is not included in scope of supply.	Refer to MOM	Mechanical Design	Screw compressor	Machine monitoring / Vibration	3

Item No	Standard Comment	Client topics	User Topic 1	User Topic 2	Criticality
1	Antifriction bearings with a L10-lifetime of minimum 40,000 operating hours	Mechanical Design	Screw compressor	Bearing	3
2	Minimum two SPM nipples at the stage for vibration monitoring included	Mechanical Design	Screw compressor	Machine monitoring/ Vibration	3
3	Auxiliary motors (e.g. fan motor, oil pump motor, oil demister motor) according to vendor standard.	Mechanical Design	Screw compressor	Auxiliary motor	4
4	Oil system according to vendor standard. The oil pump and/or oil separator can be electrically or mechanically driven. The oil system minimum consists of circulating oil, oil piping, oil mist separation, oil filtering and an oil pressure regulating valve. Oil cooling medium is air.	Mechanical Design	Screw compressor	Oil system	3
5	Acoustic hood according to vendor standard. The acoustic hood is suitable for the environmental conditions of the project and minimum made of coated carbon steel. The supplier ensure access for equipment maintenance and operation.	Mechanical Design	Screw compressor	Acoustic hood	4
6	Equipment at suction side includes minimum an air filter, an intake silencer and intake piping (if applicable). The filter element is accessible and replaceable. Material gas wetted parts minimum carbon steel outside coated	Mechanical Design	Screw compressor	Suction side/ Silencer	5
7	Equipment of the discharge side consists minimum of a silencer, non-return valve and an expansion joint. Material gas wetted parts minimum carbon steel outside coated.	Mechanical Design	Screw compressor	Discharge side/ Silencer/	5
8	Safety valve disc and seat in stainless steel. Design according to DIN EN ISO.	Mechanical Design	Screw compressor	Safety valve	3
9	Expansion joints are included in the package unit to connect the compressor to the pipes. The gas wetted parts of the expansion joint are made of stainless steel. The bolts are made of galvanized or stainless steel.	Mechanical Design	Screw compressor	Expansion joint	2
10	Instrumentation of compressor according to vendor standard. The compressor has its own microcontroller-based control system. This system ensures safe operation of the compressor unit. All-important operating states will be shown on a local mounted display. The corresponding physical values are shown on the display and they are available via serial link.	Mechanical Design	Screw compressor	Instrumentation	4
11	The stage, acoustic hood, base frame including all carbon steel parts, safety valve, auxiliary motors and carbon steel silencer are painted in C3-m according to ISO-12944.	Mechanical Design	Screw compressor	Painting	3
12	Inspection according to Coperion ITP.	Mechanical Design	Screw compressor	Inspection	3
13	Documentation according to Cperion document list.	Mechanical Design	Screw compressor	Documentation	3
14	API will not be followed.	Mechanical Design	Screw compressor	API / Standard	3