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covers the minimum requirements for axial compressors single shaft and integrally geared process centrifugal compressors and expander compressors for use in the petroleum chemical and gas industries services that handle air or gas the american petroleum institute api 617 style compressors are typically found in refinery and petrochemical applications ge strongly recommends the continuous collection trending and analysis of the radial vibration axial position and temperature data using a machinery management system such as system 1 software api standards are published to facilitate the broad availability of proven sound engineering and operating practices these standards are not intended to obviate the need for applying sound engineering judgment regarding when and where these standards should be utilized the formulation and publication of api standards is not intended in any this tutorial contains recommendations and observations based on experience gained through the design analysis and commissioning of many amb expander compressors both prior to and after the publication of the latest api617 edition api 617 provides guidelines for acceptable vibration levels for centrifugal compressors the standard specifies vibration limits based on different operating conditions and locations within the compressor this standard specifies minimum requirements and gives recommendations for axial compressors singleshaft and integrally geared process centrifugal compressors and expander compressors for special purpose applications that handle gas or process air in the petroleum chemical and gas industries centrifugal compressors api 617 sometimes also called radial compressors are oil free dynamic air compressors that work by converting introduced kinetic energy into increased potential energy this standard specifies minimum requirements and gives recommendations for axial compressors single shaft and integrally geared process centrifugal compressors and expander compressors for special purpose applications that handle gas or process air in the petroleum chemical and gas industries api standard 617 ninth edition april 2022 special notes api publications necessarily address problems of a general nature with respect to particular circumstances local state and federal laws and regulations should be reviewed the use of api publications is voluntary api 617 centrifugal and axial compressors free ebook download as pdf file pdf text file txt or read book online for free the api standard 617 draft has recently been revised seventh edition and now addresses ig centrifugal compressors for process gas service this tutorial describes important technical features of ig compressors and compares them with traditional api 617 beam type compressors 239 integrally geared api 617 process gas compressors by peter j axial and centrifugal compressors and expander compressors api 617 9th edition current show complete document history how to order standards we provide updating reporting audits copyright

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sidestream and discharge openings if the equivalent nozzle diameter is greater than 230 mm 9 in use a value of d_c equal to the following
extremely stringent discharge volume recommendation in api Oct 04 2022
resulting discharge volume 100am³ hr at a polytropic eff 76 discharge t 90degc
approx this requires a dn50 discharge line and with a 1second discharge actual volumetric throughput trapped volume which amounts to 0.028m³ this amounts to some 14m of dn50 line

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