

SURAJ SANKALP FILTRATION SYSTEM

(ANISO 9001-2015 CERTIFIED COMPANY)

CLEAN TROUBLE FREE COMPRESSED AIR / GAS

When compressed air / gas operates your most valuable and productive equipment, you cannot afford to have contamination in the lines.

Get rid your compressed air/gas system of problem causing oil aerosols, dirt and pipe scale with SURAJ SANKALP –AIR /GAS FILTERS.

Rugged housings and long lasting elements give you the best value for your money they will provide dependable filtration to reduce your downtime, maintenance and operating costs. Just a few include chemical and painting.

With a variety of models for flows from 15 to 20,000 scfm (at 100 psig) and 06 element grades to remove oil, oil vapours or particulates, SURAJ SANKALP air/gas filter offers the solution to your particular filtration needs.

IMPORTANT GUIDELINES

1. Filter's inlet and outlet port should be properly matched to your system pipe size. Avoid an undersized connection which will restrict flow.
2. Always consider the maximum flow condition at the minimum operating pressure.
3. size oil removal filters allowing for wet pressure drops of 0.75, 1.0, 1.5, and 4.0 psid for grades SA, SB, SC and SD respectively.
4. install oil removal filters at the coolest point in the systems for maximum removal of condensed aerosols.
5. Change element grades SA, SB, SC, SD, SHT, SVD & BACT before differential pressure reaches 10 PSIG

FILTRATION GRADE

Element Grade	Purpose	Flow direction	Particulate removal down to	Efficiency %	Max. oil carry over (PPM) 5.1	Max. temp. °C	Clean/ dry pressure drop. (PSID)	Colour code
SA	Coarse coalescing	In/Out	5.00	100@ 5.00µ		95	0.50	green
SB	High efficiency coalescing	In/Out	1.00µ	99.999	0.85	70	0.85	Red
SC	High efficiency coalescing	In/Out	0.1µ	99.999	0.03	50	1.00	Blue
SD	High efficiency coalescing	In/Out	0.01µ	99.999	0.009	50	1.75	Black
SHT	High temp. coalescing	In/Out	0.1	99.95	0.09	212	1.00	Metalic
SVD	Vapour Adsorbing	Out/In	0.1µ	99.999	0.004	30	1.5	Black
BACT	Bacteria removal	In /Out	0.2	99.999		90	1.5	white

Filter of this series are manufactured for 150 scfm to 20,000scfm.at 100 psig. Housing are built and

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Stamped in accordance with ASME code, each receive hydrostatic pressure testing (TP) one and half times the maximum working pressure of 250 psig at 105°C. High pressure and high temperature units are also available .

For complete information on all SURAJ SANKALP filter element grades, please see the charts or contact our factory.

SUGGESTED SPECIFICATION

Filter housing are carbon steel or stainless steel and stamped in accordance with ASME code section VIII Div. 1. Maximum working pressure shall be 250 psig at 105°C. (High pressure and temperature filters are also available. Inlet and outlet connections shall be NPT or ANSI RF flange ,on a common centreline and shall include ports for pressure differential gauges.

Housing interior is protected by primer coating and exterior is protected by coating of air dried machine enamel. Housing shall be legs mounted or scart mounted .

For coalescing application flow will first enter in the separation chamber where liquid will separate due to gravity removal and large particles are also separated .so that clean fluid will enter in the system. Filter elements are located in the housing through stainless steel tie rod, 'O' ring , and hex fasteners.

DIFFERENT TYPES OF FILTER ELEMENT:

OIL Removal element shall be equipped fibre glass pre filtration layers, borosilicate micro glass fibre, Perforated stainless steel inner and outer core supported by stainless steel helical spring .Outer layer will allow oil droplets to drain. Maximum oil carry over shall not exceed 5.1, 0.85 , 0.03 , 0.009 parts per million by weight (ppm w/w).

Solid Particle Removal element shall be equipped with fibre glass pre filtration layer followed by micro glass media perforated stainless steel inner and outer core supported by stainless steel helical spring. Filter element will provide particle removal down to 5.0, 1.0 ,0.1 , 0.01 microns.

Dust collector for low pressure and high volume filter elements are the needs of industries which are equipped with micro fibre glass media supported by wire mesh supported by inner helical spring , inner and outer perforated core. Here wire mesh is used as pre filtration layer will separate comparatively larger particle and stop media migration. Filter element will separate down to 10, 05 , 01 micron. Maximum flow through one element is 3000 scfm @45psig operating pressure.

Oil Vapour Removal Element consist of activated carbon nodules separated by micro filter media to prevent media migration. Stainless steel spring ,perforated inner and outer core will support inner layers. Removal of oil vapour down to 0.004parts per million by weight (ppm w/w at 30°C).

Bacteria removal element are made of hydrophobic PTFE membrane of 0.2 micron .pleated filter media is placed in between outer and inner core.

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OTHER PRODUCTS

1.) CUSTOM BUILD OIL FILTRATION SYSTEM

High pressure filter

Return line filter

Filter housing shall be carbon steel or stainless steel with a maximum working pressure of 350 bar with minimum differential pressure for longer life.

Element shall provide particle removal down to (50 , 30 , 20 ,10 , 05) microns.

2.) LIQUID COALESCING SYSTEM

This is a liquid –liquid separation system . This separation is done by a hydrophobic filtration media impregnated with stabilized silicon ,retaining the aqueous phase and other solvent to pass through.

SURAJ SANKALP high efficiency coalescer filters ensure the solvent phase completely free from aqueous phase.

AREA OF APPLICATION

POLYMER, PETROCHEMICAL , PHARMACEUTICAL , NUCLEAR , OFF SHORE, POWER PLANT, OIL & GAS.

OUR VALUED CUSTOMERS.

- 1.) INDIAN SPACE RESEARCH ORGANISATION (ISRO)
- 2.) NEA GROUP , GERMANY
- 3.) KIRLOSKAR PNEUMATIC COMPANY LIMITED
- 4.) LARSEN & TUBRO
- 5.) OIL AND NATURAL GAS CORPORATION (ONGC)
- 6.) RELIANCE INDUSTRIES
- 7.) GAS AUTHORITY OF INDIA LIMITED (GAIL)
- 8.) NATIONAL ALUMINIUM COMPANY LIMITED (NALCO)
- 9.) TATA IRON AND STEEL COMPANY (TISCO)
- 10.) INDORAMA GROUP (INDONESIA)