SD series 2 stages 2005SD - 2010SD - 2015SD - 2021SD - 2033SD - 2063SD - 2100SD



Adapted to all current non-corrosive applications:

- Lamps manufacturing
- Neon signs manufacturing
- Electron tubes evacuation
- TV tubes manufacturing
- Metallurgy
- Centrifuges....

SD series rotary vane pumps address the requirements of all major vacuum applications in diverse industries.

From 5 to 21 m³/h /h:

•no oil mist pollution at the exhaust: the natural lubrication design offers the lowest oil mist level, even with high throughputs or frequent cycling between atmosphere and ultimate pressure.

From 33 to 100 m³/h/h:

- •forced lubrication for continuous operation at all pressures.
- •built-in anti-suckback, activated by the oil pump, for protection of vacuum system against pressure rise.
- •rugged design for improved



2010SD



2033SD

efficiency and reliability.

•compact design: reduced

dimensions, choice of

horizontal or

vertical inlet and exhaust

ports, all

controls and service access requirements (see ordering

located

on the front.

•universal and specific

three-phase

motors, in line with

international

information pages 40 and

41).



2100SD

•optimized tightness:

From 5 to 100 m³/h:

integrated

anti-suckback; all static

seolings

•high pumping speed from atmosphere to vacuum.

secured by 0-rings; external

shaft

•efficient gas ballast for

seal can be renewed easily, vapor pumping.

without

dismantling the pump.

•air cooleed for optimum

performance

•universal single-phase

and

•field serviceable, using the

three-phase motors: see

appropriate maintenance

page 18.

kits.

Specifications SD series 2 stages

	Units	2005SD	2010SD	2015SD	2021SD	2033SD	2063SD
Nominal 50Hz pumping speed (*)	m³/h cfm	5.4 3.8	9.7 6.8	15 10.6	20.7 14.6	30 23.3	60 42.4
Pneuropl 50Hz pumping speed (*) 60hz	m³/h cfm	4.8 3.4	8.5 6	12 8.8	15.5 11.8	27 18.8	55 38
Ultimate partial pressure (*)	mbar	10-4	10-4	10-4	10-4	2.10-4	3.10-4
Ultimate total pressure (*) closed gas ballast	mbar	2.10-3	2.10-3	2.10-3	2.10-3	2.10-3	2.10-3

Ultimate total pressure (*) open gas ballast	mbar	10- ²	10- ²	10- ²	10- ²	2.10-2	2.10-2
Water vapor capacity 50/60Hz	g/h	120/110	125/100	110/100	90/90	700	1200
Water vapor pressure 50/60Hz	mbar	35/25	20/15	12/10	7/7	30	25
Weight (max)	kg(lbs)	25(55)	26(57.2)	27(59.4)	28(61.6)	61(134)	93(205)
Dimensions	see page	25	25	25	25	27	27
Electrical motors	see page	8	8	8	8	31	31
Max nominal power rating 50/60Hz	kW	0.45/0.55	0.45/0.55	0.45/0.55	0.45/0.55	1.1/1.3	2.2/2.6
Min ambient temperature	°C(°F)	12(54)	12(54)	12(54)	12(54)	12(54)	12(54)
Max ambient temperature	°C(°F)	45(113)	45(113)	45(113)	45(113)	45(113)	45(113)
Oil capacity	1	0.83	0.95	0.95	0.98	3.6	7
Inlet flange	ISO-KF	DN25	DN25	DN25	DN25	DN40	DN40
Exhaust flange	ISO-KF	DN25	DN25	DN25	DN25	DN40	DN40

^{(*):} according to Pneurop specifications; with ALCATEL mineral oil.

Maintenance kits Pumping speed **Accessories** characteristics In order to simplify ALCATEL offers a maintenance comprehensive See pages 29 to 33 for performed in the field, range of accessories (mist pumping speed/pressure and ALCATEL eliminators, pressure drop curves. provides maintenance kits filters, traps...) in order to Ordering information: see pages 38 to 41. including optimize interchangeable pump operation in various running components. conditions. These accessories •Minor kit includes all described page 45 to 62. necessary seals (shaft seals, valves,

o-rings...) Oils

•Major kit includes Minor

kit plus Oils of different viscosities

vanes, springs, plugs... and

•Shaft seal kit (for 2005SD specifications are available, to

to enable customers to obtain the

2021SD) includes all best

components performance from rotary vane

(lip seal, shaft sleeve...) pumps,

necessary under different application

for fast periodic renewal of conditions.

external shaft seal. See pages 42 and 43.