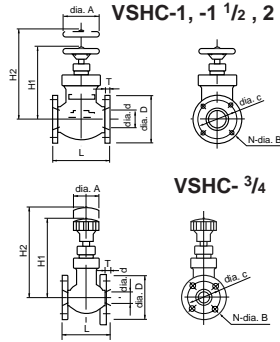


Vacuum Valve VSHC/VLHC/VLPC Series

Vacuum Valve VSHC/VLHC Series S: Straight Model/L: Angle Model; Manual Valve with Vacuum Flange



Specifications

Item	Model	VSHC/VLHC
Common diameter		20 A (3/4B) -100 A (4B)
Main unit material		Cast iron and nickel plating
Gasket material		Nitrile rubber
Allowable baking temperature	°C	< 60
Applicable pressure range	Pa	10 ⁵ -10 ⁻²
Leak volume	Pa · m ³ /s	< 7.0 × 10 ⁻⁶ *1
Allowable surrounding temperature	°C	5-40
Operation method		Manual

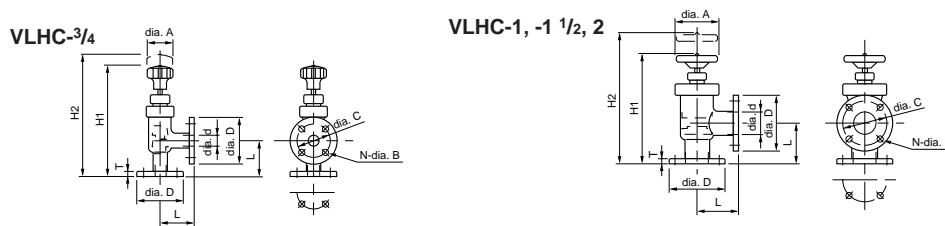
Note: SI units are used in this catalog. The following conversion can be used for non-SI units.
Ultimate pressure: 1Pa = 7.5 × 10⁻³ Torr

*1 a. Seal performance value when valve is shut. O-ring permeability is not included in the leak volume.
b. When the valve is operated air caught in the shaft is turned in and may increase the apparent leak volume.

unit: mm

Model	Item	Common port diameter (A)	Flange specification	Conductance L/s*1	Flange diameter dia. D	Surface interval L	When completely closed H1	When completely open H2	Diameter dia. d	Flange thickness T	Bolt center dia. C	Hole quantity/diameter N-dia. B	Handle dia. A	Weight kg
VSHC-3/4		20	VF20	4.7	80	90	145.5	165.5	20	10	60	4-10	45	1.5
VSHC-1		25	VF25	7.5	90	110	135	155	25	10	70	4-10	65	2.5
VSHC-1 1/2		40	VF40	25.8	105	130	157	190	40	12	85	4-10	80	4.5
VSHC-2		50	VF50	38.6	120	170	182	222	50	12	100	4-10	100	7.2
VSHC-3		80	VF80	117	160	230	301	361	80	14	135	4-12	140	15.3
VSHC-4		100	VF100	187	185	280	324	394	100	14	160	8-12	160	24.4

*1 Conductance: Calculated value using molecular flow, 20 °C, and air

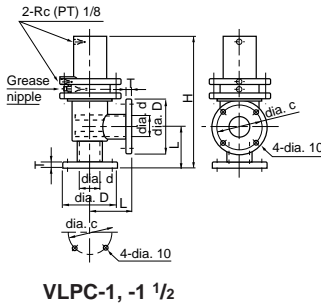


unit: mm

Model	Item	Common port diameter (A)	Flange specification	Conductance L/s*1	Flange diameter dia. D	Surface interval L	When completely closed H1	When completely open H2	Diameter dia. d	Flange thickness T	Bolt center dia. C	Hole quantity/diameter N-dia. B	Handle dia. A	Weight kg
VLHC-3/4		20	VF20	5.0	80	60	193	213	20	10	60	4-10	45	1.5
VLHC-1		25	VF25	12.0	90	65	182	202	25	10	70	4-10	65	2.5
VLHC-1 1/2		40	VF40	40.6	105	80	213	246	40	12	85	4-10	80	3.6
VLHC-2		50	VF50	68.8	120	90	245	285	50	12	100	4-10	100	5.6
VLHC-3		80	VF80	197.0	160	120	375	435	80	14	135	4-12	140	11.4
VLHC-4		100	VF100	335.5	185	130	397	467	100	14	160	8-12	160	18.5

*1 Conductance: Calculated value using molecular flow, 20 °C, and air

Vacuum Valve VLPC Series (L: Angle Model, Compressed Air Driven Valve with Vacuum Flange)



Specifications

Item	Model	VLPC
Common diameter		25 A (1B), 40 A (11/2B)
Main unit material		Cast iron and nickel plating
Gasket material		Nitrile rubber
Allowable baking temperature	°C	< 60
Applicable pressure range	Pa	10 ⁵ -10 ⁻²
Leak volume	Pa · m ³ /s	< 7.0 × 10 ⁻⁶ *1
Allowable surrounding temperature	°C	5-40
Operation method		Compressed air
Compressed air operating pressure	MPa G	0.45-0.55
Open/close signal output		Attachment not possible
Remarks		Reverse flow possible

Note: SI units are used in this catalog. The following conversion can be used for non-SI units.

Ultimate pressure: 1Pa = 7.5 × 10⁻³ Torr

*1 a. Seal performance value when valve is shut. O-ring permeability is not included in the leak volume.

b. When the valve is operated air caught in the shaft is turned in and may increase the apparent leak volume.

unit: mm

Model	Item	Common port diameter (A)	Flange specification	Conductance L/s*1	Flange diameter dia. D	Surface interval L	Total height H	Diameter dia. d	Flange thickness T	Bolt center dia. C	Hole quantity/diameter N-dia. B	Weight kg
VLPC-1		25	VF25	12.3	90	65	207.5	24	10	70	4-10	3.3
VLPC-1 1/2		40	VF40	40.3	105	80	255	40	12	85	4-10	6.0

*1 Conductance: Calculated value using molecular flow, 20 °C, and air