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Gdc-q And GDC Electromagnetic Vacuum Valves

Description: Gdc-q5 electromagnetic high vacuum belt charging valve is connected to the high and low vacuum system.

Gdc-q5 electromagnetic high vacuum belt charging valve is connected to the high and low vacuum system. The valve is opened by energizing the valve, and the charging port is closed at the same time to connect the P and a end pipelines. When the power is off, the valve plate is closed, and the P and a end pipelines are cut off to ensure the vacuum degree of the system. At the same time, the charging port is opened, and the gas is charged to the a end through the f end.

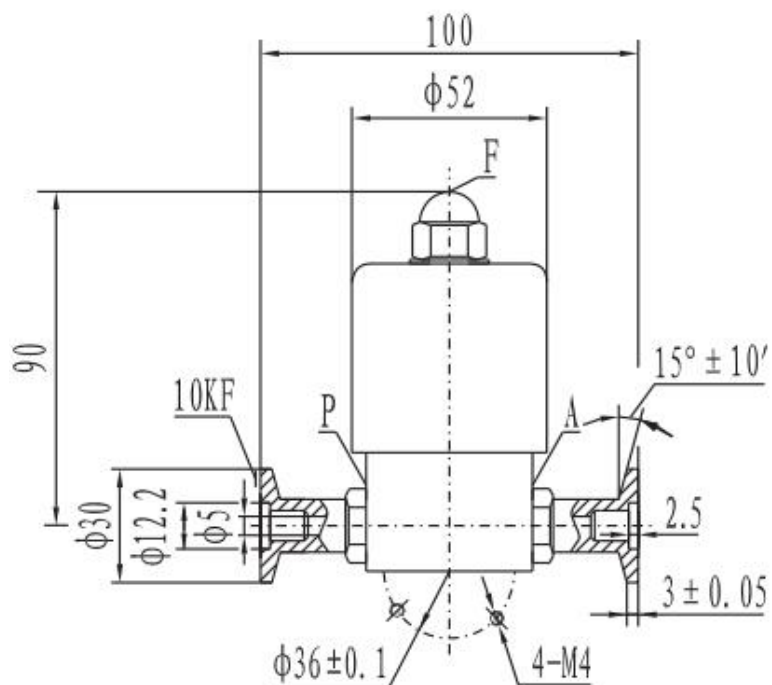
Gdc-5 electromagnetic high vacuum flapper valve is connected to high and low vacuum pipeline to connect or cut off the air flow of vacuum system.

The working medium of gdc-q5 and gdc-5 vacuum valves is clean air and non corrosive gas.

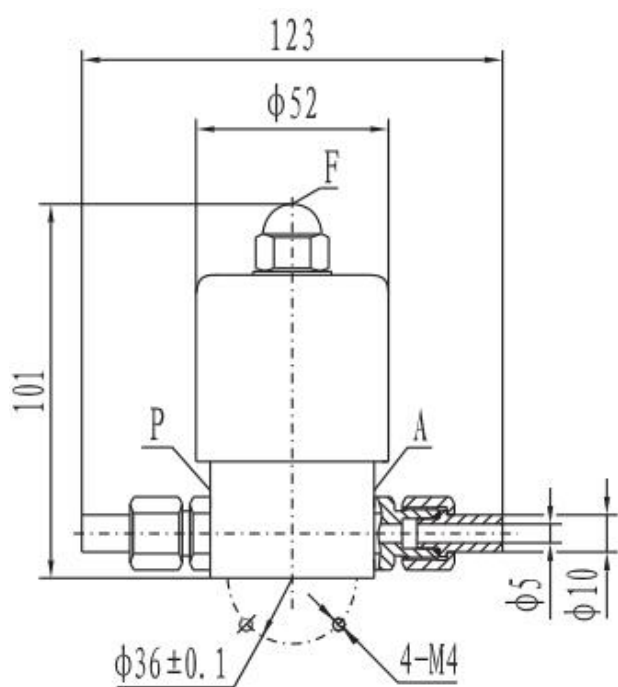
Technical Parameters

model	GQC-Q5	GQC-5
Path (DN)	5	
Scope of application (Pa)	$10^5 \sim 6.7 \times 10^{-4}$	
Valve leakage rate (Pa.L/S) $\leq 1.3 \times 10$	-4	
Power supply voltage (V/Hz)	220/50	

Coil temperature rise (°C)	≤65
Installation position	arbitrarily
Connection standard	1) GB4982; 2) Welded connection



1) 10KF quick-release flange connection



2) Welded connection

A-terminal low vacuum

P-terminated high vacuum



Gdq-j-a Series Normally Closed Pneumatic High Vacuum Flapper Valve

Description: Gdq-j-a series normally closed pneumatic high vacuum flapper valve relies on compressed air as the valve plate opening and closing power through the electromagnetic reversing valve.

Gdq-j-a series normally closed pneumatic high vacuum flapper valve relies on compressed air as the valve plate opening and closing power through the electromagnetic reversing valve. When the power supply or compressed air is lost, the valve with a diameter of less than DN80 will automatically close the valve by the spring force. The valve with a diameter of more than DN100 will quickly close the original air source pressure of the cylinder through the solenoid valve group to automatically close the valve. So as to achieve the function of quickly cutting off the air flow in the vacuum system. The shaft seal structure of pneumatic high vacuum flapper valve can be divided into gdq-j-a rubber seal and gdq-j-a (b) bellows seal. Gdq-j type is angle type, gdq-s type is tee type with pre extraction port.

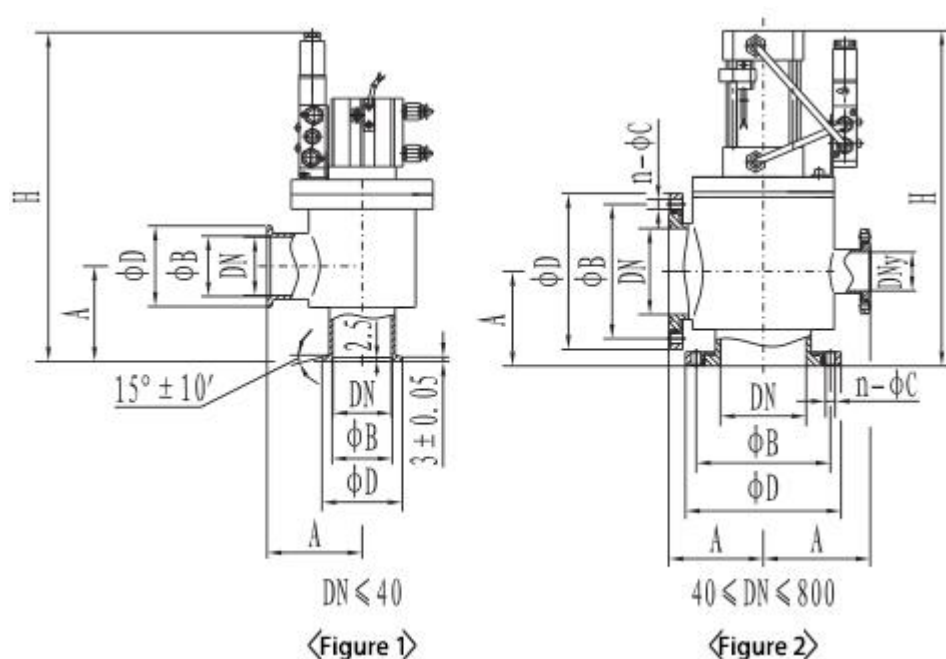
The applicable working medium is air and non corrosive gas.

Technical Parameters

applicability(Pa)	105~1.3×10 ⁻⁴ (Shaft seal material is rubber)
	105~1.3×10 ⁻⁶ (Shaft seal material is bellows)
Valve leak rate(Pa.L/S)	≤1.3×10 ⁻⁵ (the shaft seal material is rubber)
	≤1.3×10 ⁻⁷ (Shaft seal material is bellows)

Applicable temperature (°C)	-25~+80 (The sealing material is nitrile rubber)
	-30~+150 (the sealing material is fluorine rubber)
Material of main parts of valve	Stainless steel or carbon steel
Air source pressure (Mpa)	0.4~0.8
Installation position	DN < 300 arbitrary, DN≥300 vertical
supply voltage	Standard factory: AC220V/50Hz
	Special designation: ①AC110V; ②DC24V; ③DC12V, etc.
Signal feedback	Standard factory: without feedback signal
	Special designation: Magnetic switch DC/AC5~240V

Dimensions



(Figure 1) (KF) connection and external dimensions

model	Path (DN)	ΦD	ΦB	H	A	Flange standard
GDQ-J10/KF	10	30	12.2	180	30	GB4982
GDQ-J16/KF	16	30	17.2	180	40	
GDQ-J25/KF	25	40	26.2	200	50	

GDQ-J40/KF	40	55	41.2	210	65	
GDQ-J50/KF	50	75	52.2	276	70	/

(Figure 2) Looper flange connection and overall dimensions

model	Path (DN)	ΦD	ΦB	H	A	n-ΦC	Flange standard	DNy (pre-extraction port)
GDQ-J40A	40	100	80	230	70	4-Φ9	GB/T6070	/
GDQ-J50A	50	110	90	276	70			
GDQ-J63A	63	130	110	283	88			
GDQ-J80A	80	145	125	324	98	8-Φ9		
GDQ-J100A	100	165	145	338	108			
GDQ-J125A	125	200	175	424	128	8-Φ11	JB919	KF40(GB4982)
GDQ-J (S)150A	150	220	195	482	138			
GDQ-J (S)160A	160	225	200	482	138		12-Φ11	GB/T6070
GDQ-J (S)200A	200	285	260	620	200	DN63(GB/T6070)		
GDQ-J (S)250A	250	335	310	655	208	8-Φ14		JB919
GDQ-J (S)300A	300	380	350	783	250			
GDQ-J (S)320A	320	425	395	1064	250	12-Φ14	GB/T6070	DN100(GB/T6070)
GDQ-J (S)400A	400	510	480	1210	330	16-Φ14		
GDQ-J (S)400A	400	500	465	1210	330	8-Φ18	JB919	DN125(GB/T6070)
GDQ-J (S)500A	500	610	580	1270	360	16-Φ14	GB/T6070	DN160(GB/T6070)
GDQ-J (S)600A	600	710	670	1562	450	12-Φ21	JB919	
GDQ-J (S)630A	630	750	720	1562	450	20-Φ14	GB/T6070	
GDQ-J (S)800A	800	920	880	1865	550	20-Φ21	JB919	DN200GB/T6070)



Gdq-kf Series Through Pneumatic High Vacuum Flapper Valve

Description: Gdq-kf series through pneumatic high vacuum flapper valve uses compressed air as power, changes the direction of air path through electromagnetic reversing valve

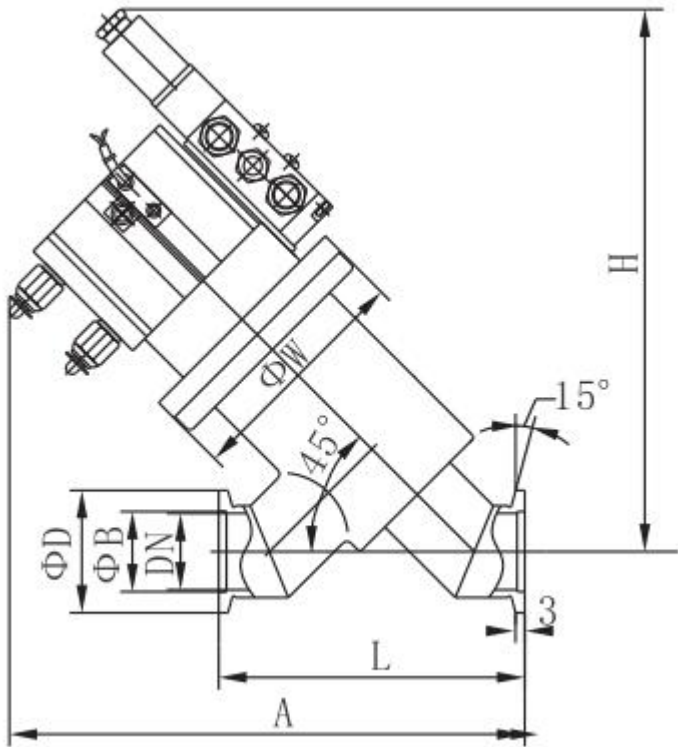
Gdq-kf series through pneumatic high vacuum flapper valve uses compressed air as power, changes the direction of air path through electromagnetic reversing valve, pushes the cylinder piston up and down, drives the valve rod up and down to open or close the valve plate, so as to achieve the purpose of connecting or cutting off the air flow in the vacuum system.
The applicable working medium is air and non corrosive gas.

Technical Parameters

applicability(Pa)	1×10 ⁵ ~1.3×10 ⁻⁶
Valve leak rate(Pa.L/S)	≤1.3×10 ⁻⁷
Applicable temperature (°C)	-25~+ 40
Air source pressure (Mpa)	0.4~0.8
Flange standard	GB4982
Installation position	arbitrarily

supply voltage	Standard factory: AC220V/50Hz
	Special designation: ①AC110V; ②DC24V; ③DC12V, etc.
Signal feedback	Standard factory: without feedback signal
	Special designation: micro switch

Dimensions



model	Path (DN)	ΦD	ΦB	ΦW	L	A	H	Flange standard
GDQ-J16/KF	16	30	17.2	55	80	143	162	GB4982
GDQ-J25/KF	25	40	26.2	77	100	170	177	
GDQ-J32/KF	32	55	41.2	85	120	180	187	
GDQ-J40/KF	40	55	41.2	97	130	195	200	
GDQ-J50/KF	50	75	52.2	98	155	228	219	/



Gdq-js Three Way Pneumatic High Vacuum Flapper Valve

Description: Gdq-js three-way pneumatic high vacuum flapper valve uses compressed air as the power to change the air flow direction by controlling the pneumatic components.

Gdq-js three-way pneumatic high vacuum flapper valve uses compressed air as the power to change the air flow direction by controlling the pneumatic components. It has two-way interface and is driven by the cylinder to make the flapper valve open and close, which is used to connect or cut off the air flow in the vacuum pipeline.

The applicable working medium is air and non corrosive gas.

Technical Parameters

applicability(Pa)	10 ⁵ ~1.3×10 ⁻⁴
Valve leak rate(Pa.L/S)	≤1.3×10 ⁻⁵
Applicable temperature (°C)	-25~+80 (The sealing material is nitrile rubber)
	-30~+150 (the sealing material is fluorine rubber)
Air source pressure (Mpa)	0.4~0.8
Installation position	arbitrarily

supply voltage	Standard factory: AC220V/50Hz
	Special designation: ①AC110V; ②DC24V; ③DC12V, etc.
Signal feedback	Standard factory: without feedback signal
	Special designation: Magnetic switch DC/AC5~240V
Flange standard	GB/T6070

Dimensions

model	Path (DN)	ΦD	L	H	B	A/F	n/d
GDQ-JS30	30	70	178	158	88	42/44	4-M6
GDQ-JS40	40	70	178	158	88	42/44	4-M6
GDQ-JS50	50	90	200	199	100	55/50	4-M8
GDQ-JS63	63	110	245	199	120	62/62	4-M8



GDQ Pneumatic High Vacuum Damper Valves

Description: GDQ-J is angle type and GDQ-S is three-way type with prepumping. Applicable medium can be air and noncorrosive gases.

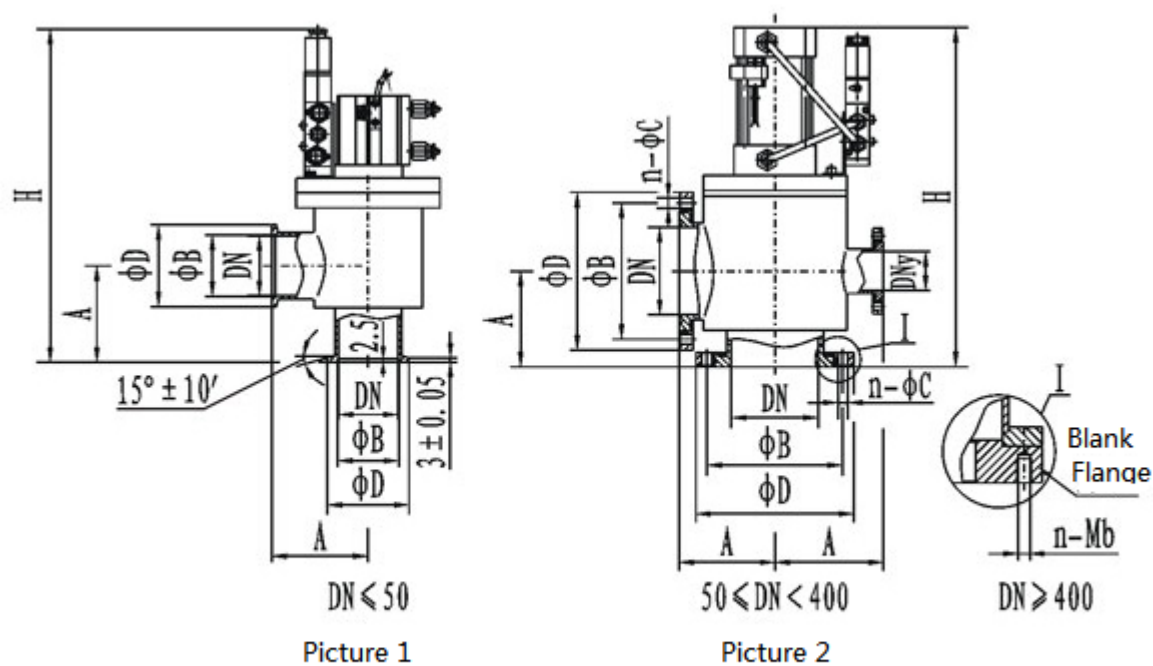
GDQ pneumatic high vacuum damper valve(Angle Valve), motivated by compressed air, pushes the cylinder to up and down move with the valve rod by changing the direction of electromagnetism to transform the gas circuit direction, which drives the valve to open or close, in order to cut off or connect gas flow in the Vacuum system. GDQ-J is angle type and GDQ-S is three-way type with prepumping. Applicable medium can be air and noncorrosive gases.

Basic Dimensions

Applicable Scope(Pa)	105 ~ 1.3×10 ⁻⁴
Valve Leak Rate(Pa.L/S)	≤1.3×10 ⁻⁶
Medium Temperature (°C)	-25 ~ +80(Seal Material: chemigum) -30 ~ +150(Seal Material: viton)
Air Source Pressure(MPa)	0.4 ~ 0.8
Install Position	DN < 300 for any,DN≥300 for vertical
Power Valtage	Standard Technism : AC220V/50Hz especially for AC110V ; DC24V ; DC12V

Signal Feedback

Standard Technism : without feedback signal
especially for Magnetic SwitchDC/AC5 ~ 240V



(Picture One)(KF) Overall Dimension

Model	Diameter(DN)	φD	φB	H	A	Flange Standard
GDQ-J10/KF	10	30	12.2	180	30	GB4982
GDQ-J16/KF	16	30	17.2	180	40	
GDQ-J25/KF	25	40	26.2	200	50	
GDQ-J40/KF	40	55	41.2	210	65	
GDQ-J50/KF	50	75	52.2	276	70	/

(Picture Two)Lap Joint Flange Connections and Size

Model	Diameter(DN)	ΦD	ΦB	H	A	n-ΦC	DNy	n-Mb	Flange Standard
GDQ-J50	50	110	90	276	70	4-Φ9	/	/	GB/T6070
GDQ-J63	63	130	110	283	88				
GDQ-J80	80	145	125	314	88	8-Φ9			
GDQ-J100	100	165	145	338	108				

GDQ-J125	125	200	175	424	128	8-Φ11	DN40(GB4982)			
GDQ-J(S)150	150	220	195	482	138					JB919
GDQ-J(S)160	160	225	200	482	138					
GDQ-J(S)200	200	285	260	620	200	12-Φ11	DN50(GB/T6070)		GB/T6070	
GDQ-J(S)250	250	335	310	655	208		DN63(GB/T6070)			
GDQ-J(S)300	300	380	350	783	250	8-Φ14	DN80(GB/T6070)		JB919	
GDQ-J(S)320	320	425	395	789	250	12-Φ14		GB/T6070		
GDQ-J(S)400	400	510	480	1210	330	16-Φ14	DN100(GB/T6070)	16-M12		
GDQ-J(S)400	400	500	465	1210	330		8-M16	JB919		
GDQ-J(S)500	500	610	580	1270	360		DN125(GB/T6070)	16-M10	GB/T6070	
GDQ-J(S)600	600	710	670	1562	450	12-Φ21	DN160(GB/T6070)	12-M18	JB919	
GDQ-J(S)630	630	750	720	1562	450	20-Φ14		20-M10	GB/T6070	



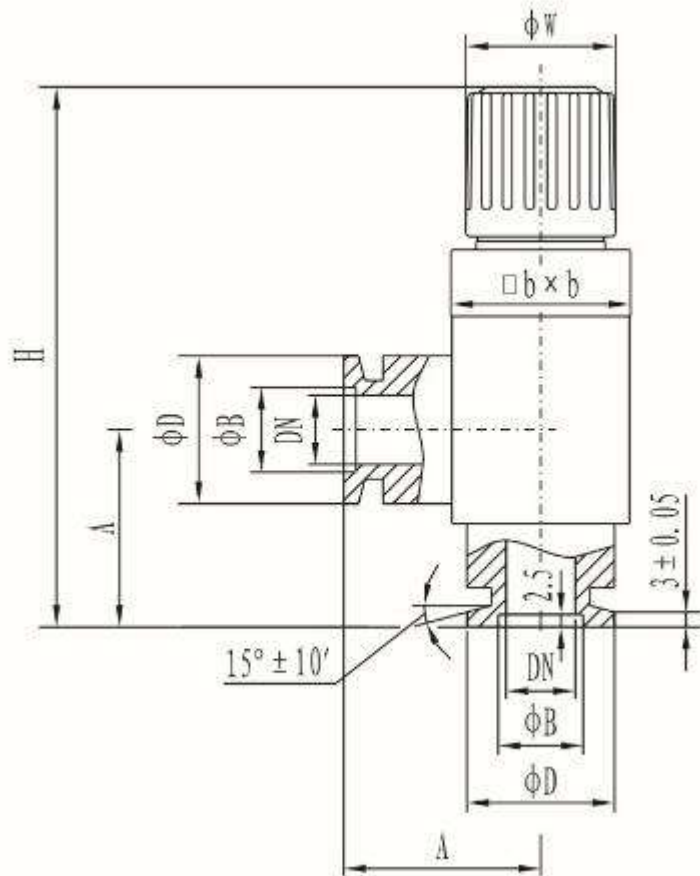
GD-J(b) Manual High Vacuum Damper Valve

Description: GD-J(b) manual high vacuum damper valve(Angle Valve) is one of the important components in the Vacuum system.

GD-J(b) manual high vacuum damper valve(Angle Valve) is one of the important components in the Vacuum system. The transmission component is in screw structure, depended on the hand power to revolve the wheel and open or close the valve.Applicable medium can be air and noncorrosive gases.

Basic Dimensions

Applicable Scope(Pa)	$2 \times 10^5 \sim 1.3 \times 10^{-6}$
Valve Leak Rate(Pa.L/S)	$\leq 1.3 \times 10^{-7}$
Applicable Temperature (°C)	-25 ~ +40
Flange Standard	GB4982
Install Position	arbitrary



Overall Dimensions

Model	Diameter(DN)	ϕD	ϕB	ϕW	H	A	bxb
GD-J10(b)/KF	10	30	12.2	36	116	40	37×37
GD-J16(b)/KF	16	30	17.2	36	116	40	37×37
GD-J25(b)/KF	25	40	26.2	50	144	50	61×61
GD-J40(b)/KF	40	55	41.2	56	174	65	81×81



GDC-J Electromagnetic High Vacuum Damper Valve

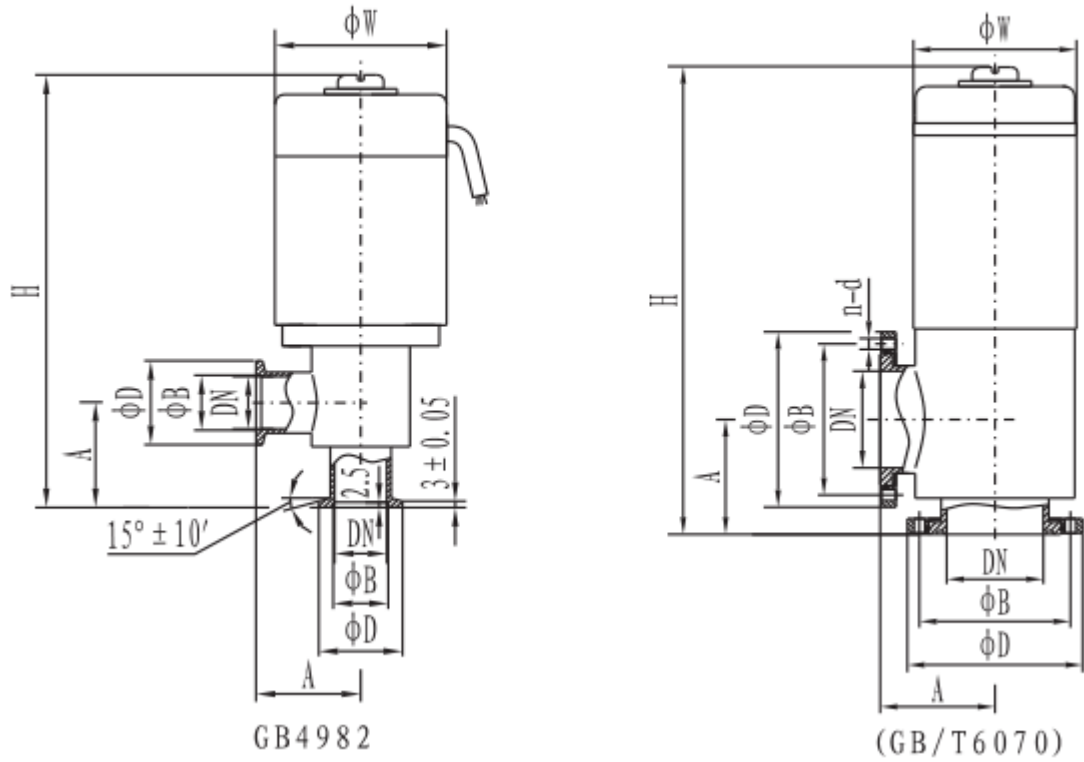
Description:

GDC-J electromagnetic high vacuum damper valve is used to open or close the valve by electromagnetic and spring-return force, applying itself to open or cut off the air current within the Vacuum system. It allows to bear the atmospheric pressure over the valve sealed surface while the downside is full of vacuum as the valve is closed. Under such circumstance can the valve be opened regularly after connecting the electrical control power.

Basic Dimensions

Applicable Scope(Pa)	105 ~ 6.7×10 ⁻⁴
Valve Leak Rate(Pa.L/S)	≤6.7×10 ⁻⁴
Applicable Temperature (°C)	-25 ~ +40
Coil Temperature Rise (°C)	≤65
On and Off Time (S)	3 ~ 5
Power Voltage (V/Hz)	220±10%/50
Install Pattern	Vertical

Picture 2



Overall Dimension

Model	Diameter(DN)	ΦW	ΦD	ΦB	H	A	Flange Standard
GDC-J16A/KF	16	68	30	17.2	186	40	GB4982
GDC-J25A/KF	25	82	40	26.2	193	50	
GDC-J40/KF	40	110	55	41.2	270	65	
GDC-J50A/KF	50	125	75	52.2	307	70	/

Overall Dimension

Model	Diameter(DN)	ΦW	ΦB	H	h	bxh	n-b	Flange Standard
GDC-J16A	16	68	42	165	28	48×48	4-M5	JB919
GDC-J25A	25	82	55	190	35	58×58	4-M6	
GDC-J32	32	92	64	217	40	68×68	4-M6	
GDC-J40	40	110	70	240	44	80×80	4-M6	
GDC-J50A	50	125	90	285	56	95×95	4-M8	
GDC-J65	65	135	105	315	65	115×115	4-M8	
GDC-J80	80	165	125	358	75	140×140	4-M8	



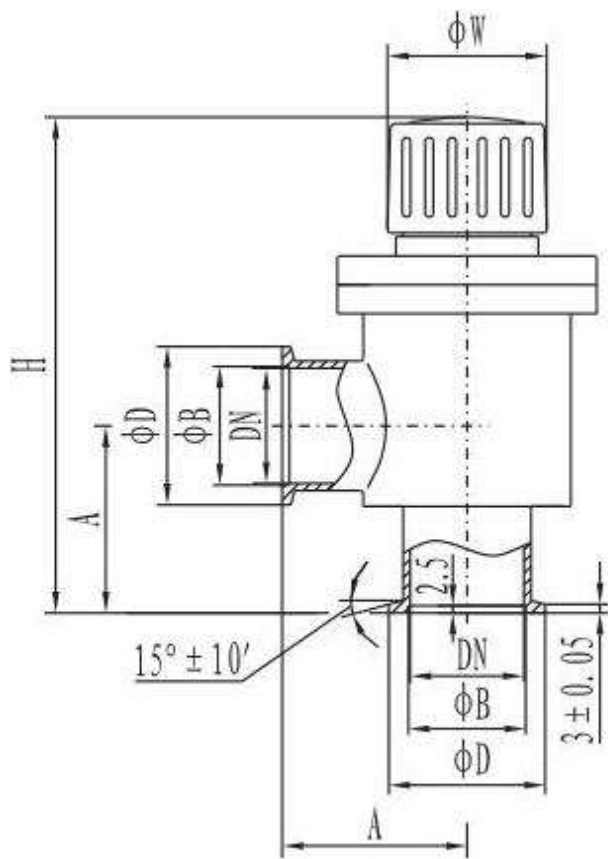
GD-J High Vacuum Damper Valve

Description: GD-J high vacuum damper valve(Angle Valve)is used to open or close the air current in the Vacuum system.

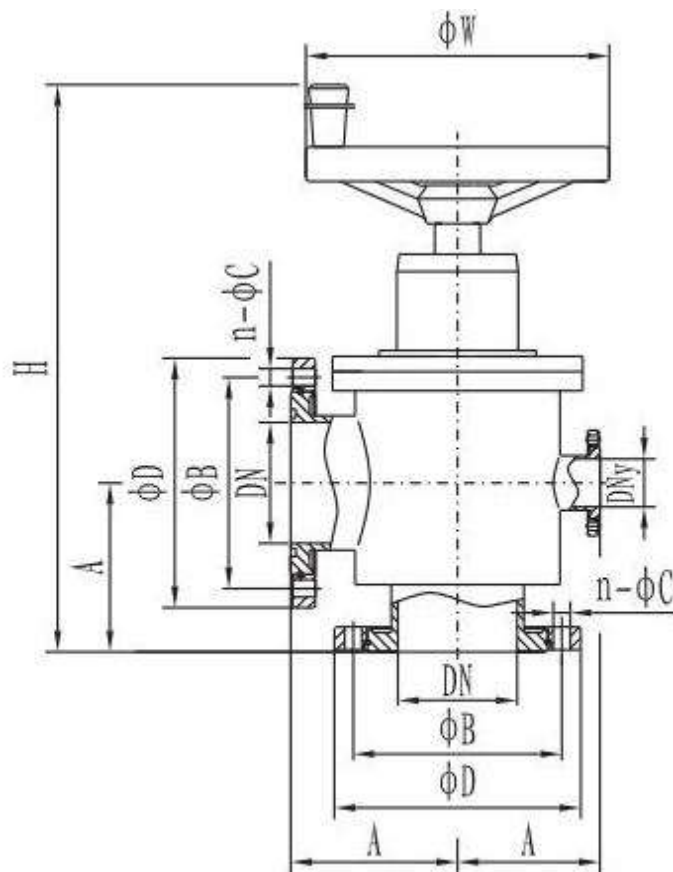
GD-J high vacuum damper valve(Angle Valve)is used to open or close the air current in the Vacuum system. The screw drive is adopted as the transmitted components to lift the valve, which are lighter and reliable in movement. GD-J is angle type and GD-S is three-way type with prepumping. Applicable medium can be air and noncorrosive gases.

Basic Dimensions

Applicable Scope(Pa)	$2 \times 10^5 \sim 1.3 \times 10^{-4}$
Valve Leak Rate(Pa.L/S)	$\leq 1.3 \times 10^{-6}$
Medium Temperature (°C)	-25 ~ +80(Seal Material: chemigum) -30 ~ +150(Seal Material: viton)
Install Position	arbitrary



Picture1



Picture 2

(KF) Overall Dimension

Model	Diameter(DN)	ΦD	ΦB	H	A	ΦW	Flange Standard
GD-J10/KF	10	30	12.2	122	30	36	GB4982
GD-J16/KF	16	30	17.2	132	40	36	
GD-J25/KF	25	40	26.2	158	50	50	
GD-J40/KF	40	55	41.2	180	65	56	
GD-J50/KF	50	75	52.2	278	70	100	/

Lap Joint Flange Connections and Size

Model	Diameter(DN)	ΦD	ΦB	H	A	ΦW	n-ΦC	DNy	Flange Standard
GD-J50	50	110	90	278	70	100	4-Φ9	/	GB/T6070
GD-J63	63	130	110	390	88	160			
GD-J80	80	145	125	432	88				
GD-J100	100	165	145	460	108		8-Φ9		

GD-J(S)150	150	220	195	636	138	200	8-Φ11	DN40(GB4982)	JB919
GD-J(S)160	160	225	200	636	138				GB/T6070
GD-J(S)200	200	285	260	788	200		12-Φ11	DN50(GB/T6070)	
GD-J(S)250	250	335	310	820	208	DN63(GB/T6070)			
GD-J(S)300	300	380	350	980	250	8-Φ14		DN80(GB/T6070)	JB919



GDQ-J(b) Electronic And Pneumatic High Vacuum Damper Valve

Description: GDQ-J(b) Angle Valve is sealed by sylphon and signaled by electrical signal as the valve switch and depended on the compressed air as the motive force to open or close the valve.

GDQ-J(b) electronic and pneumatic high vacuum damper valve(Angle Valve) is sealed by sylphon and signaled by electrical signal as the valve switch and depended on the compressed air as the motive force to open or close the valve. The valve will be relied on the spring to close the valve automatically when losing power supply or the compressed air. To be the on and off mechanism in the high vacuum tube, such valve is advantageous in operating steady and reliable with long life span, which can be the top choice within the automatic vacuum facilities. Applicable medium can be air and noncorrosive gases.

Basic Dimensions

Applicable Scope(Pa)	$1 \times 10^5 \sim 1.3 \times 10^{-6}$
Valve Leak Rate(Pa.L/S)	$\leq 1.3 \times 10^{-7}$
Applicable Temperature (°C)	-25 ~ +40
Air Source Pressure (MPa)	0.4 ~ 0.6
Flange Standard	GB4982
Install Position	Arbitrary



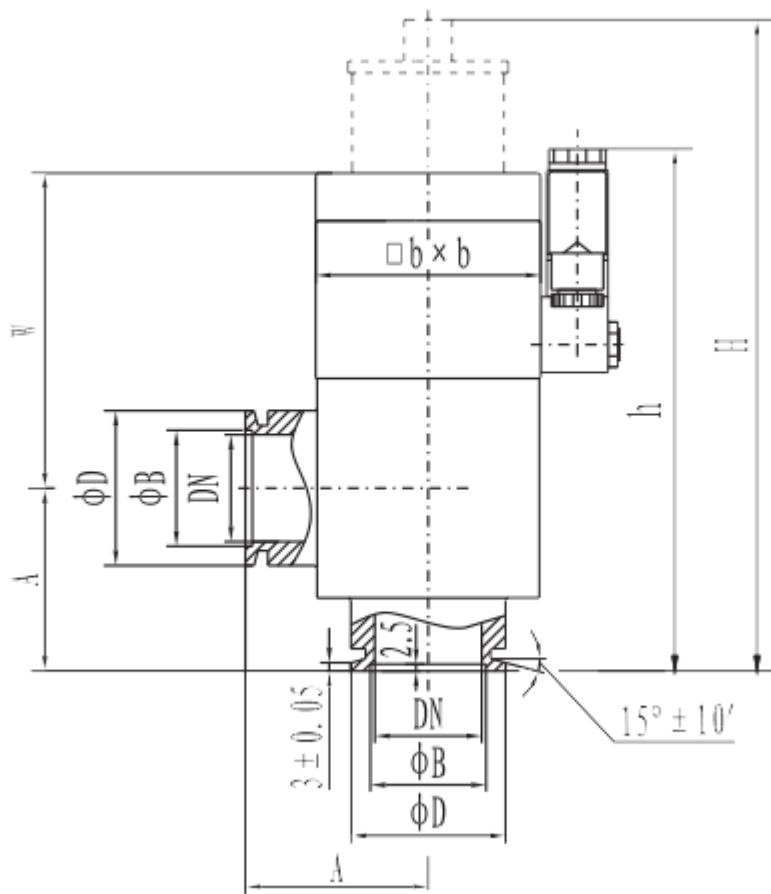
High Vacuum Damper Valve Angle Valve

Description: GDQ-J(b)-A pneumatic high vacuum damper valve(Angle Valve) is sealed by sylpho.

GDQ-J(b)-A pneumatic high vacuum damper valve(Angle Valve) is sealed by sylpho. Motivated by compressed air, it pushes the cylinder to up and down move with the valve rod by changing the direction of electromagnetism to transform the gas circuit direction, which drives the valve to open or close, in order to cut off or connect gas flow in the Vacuum system. Such valve is advantageous in operating steady and reliable with long life span, which can be the top choice within the automatic vacuum facilities. Applicable medium can be air and noncorrosive gases.

Basic Dimensions

Applicable Scope(Pa)	$1 \times 10^5 \sim 1.3 \times 10^{-6}$
Valve Leak Rate(Pa.L/S)	$\leq 1.3 \times 10^{-7}$
Applicable Temperature (°C)	-25 ~ +40
Air Source Pressure (MPa)	0.4 ~ 0.6
Flange Standard	GB4982
Install Position	Arbitrary
Power Valtage	Standard Technism : AC220V/50Hz especially for AC110V ; DC24V ; DC12V.



Overall Dimensions

Model	Diameter(DN)	ϕD	ϕB	H	A	L	bxb
GDQ-J10(b)A	10	30	12.2	139	40	40	40×40
GDQ-J16(b)A	16	30	17.2	139	40	40	40×40
GDQ-J25(b)A	25	40	26.2	161	50	51	62×62
GDQ-J40(b)A	40	55	41.2	191	65	60	80×80

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