COVNA®
VALVE

Solenoid Valve 2W Series

Characteristic: 1. Direct lifting diaphragm construction with high frequency
2. Open from 0 bar with large flow rate
3. Applied to low pressure system

Medium: Steam and Hot Water, Civil gas, Oil, etc.

Temperature: N-NBR: -5℃ to 80℃
E-EPDM : -5℃ to 100℃
V-VITON: -5℃ to 120℃

Pressure: 0.0Mpa~1.0Mpa

Port Size: 3/8", 1/2", 3/4", 1", 1¼", 1½", 2"

Port Thread: BSPP, BSPT, NPT, FLANGE

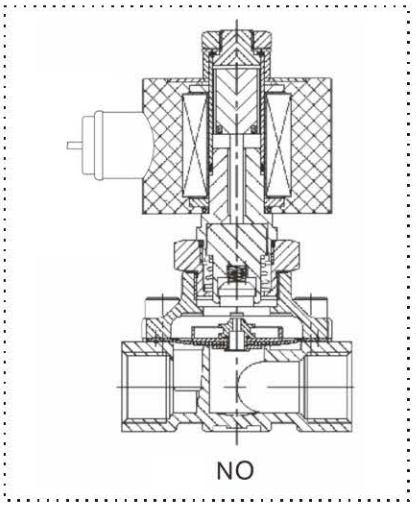
Orifice(mm): 15, 20, 25, 32, 40, 50

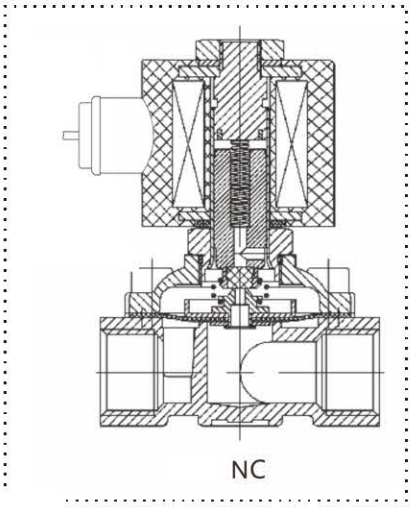
Voltage: DC-12V, 24V
AC-24V, 120V, 240V/60Hz; 110V, 220V/50Hz

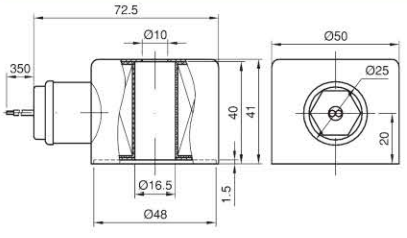
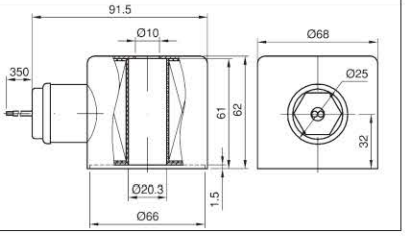
Tolerance: ±10%

Coils: **Y32B, 40VA(AC), 18W(DC), IP65,100%ED**
Y42B, 50VA(AC), 20W(DC), IP65,100%ED

Material: Body- Brass or stainless steel UPVC
Seal- VITON PTFE NBR EPDM
Armature Tube- Stainless Steel304
Plunger- Stainless Steel 430F
Stop- SS 403F
Springs-SS 304
Shading Rings-Stainless Steel 304





Model	Picture	Voltage	Motor Power	Protection Class	Available For	Outline Size Drawing
Y32B		1.AC220V 2.AC110V 3.AC24V 1.DC24V 2.DC12V 3.DC6V **The voltage can be customed**	40VA 18W	IP65	**DN10 DN15 DN20 DN25**	
Y42B		1.AC220V 2.AC110V 3.AC24V 1.DC24V 2.DC12V 3.DC6V **The voltage can be customed**	50VA 20W	IP65	**DN32 DN40 DN50**	

COVNA®
VALVE

Solenoid Valve 2W Series

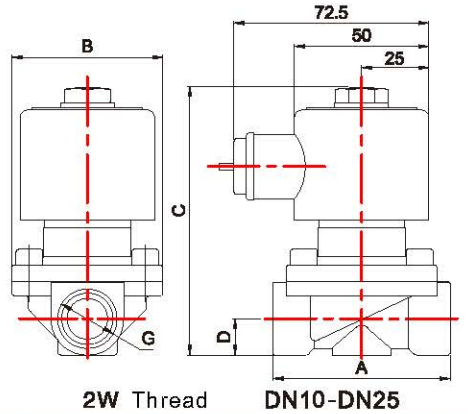
Determine Valve Body Code

Type	Orifice mm	Port size	Port thread	Body	Seal	Voltage
2W	10,15,20, 25,32,40, 50	G - G/BSP N - NPT thread F - Flange	B - Brass S - Stainless steel UPVC	N-NBR E-EPDM V-VITON	Y32B Y42B	1.AC220V 2.DC24V 3.AC110V 4.DC12V 5.AC24V 6.DC6V

EXMAPLE:HK08 25 GBN S21H2, HK08 SERIES, NC, 25MM ORIFICE, 1"G, STAINLESS BODY, PET SEAL, COIL S21H, AC220V, DIN

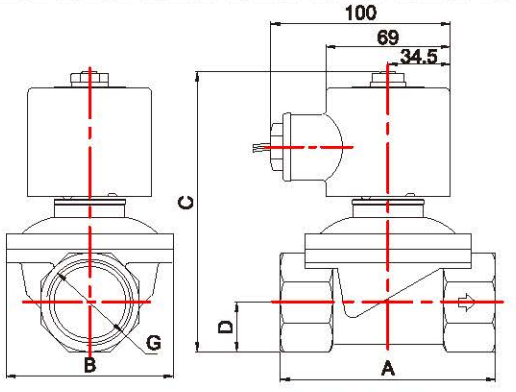
Technical Parameters

Size	Port Size	Orifice mm	Cv	Min Pressure	Max Presuure		Operating Temperature		
					AC(40VA)	DC(18W)	NBR	EPDM	VITON
2W-10	3/8"	10	4.5	0.0MPa	0.7MPa	0.7MPa	-5℃~80℃	-5℃~100℃	-5℃~120℃
2W-15	1/2"	15	4.5	0.0MPa	0.7MPa	0.7MPa			
2W-20	3/4"	20	9.3	0.0MPa	0.7MPa	0.7MPa			
2W-25	1"	25	12	0.0MPa	0.7MPa	0.7MPa			
					AC(50VA)	DC(20W)			
2W-32	1-1/4"	32	24	0.0MPa	1.0MPa	1.0MPa			
2W-40	1-1/2"	40	29	0.0MPa	1.0MPa	1.0MPa			
2W-50	2"	50	48	0.0MPa	1. 0MPa	1. 0MPa			



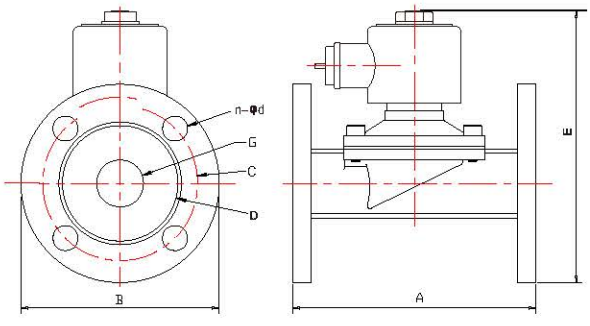
2W Thread DN10-DN25

Size		2W-10	2W-15	2W-20	2W-25
A		68	68	68	97
B		56	56	56	76
C	NO	95	115	120	127
	NC	92	112	117	123
D		13.5	13.5	16.5	20



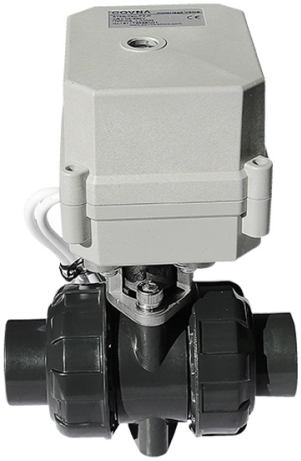
2W Thread DN32-DN50

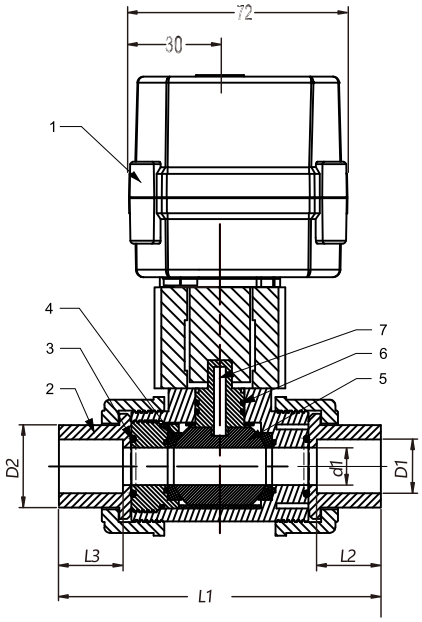
Size		2W-32	2W-40	2W-50
A		115	122	166
B		86	93	118.5
C	NO	153	160	180
	NC	153	160	180
D		24	28	36

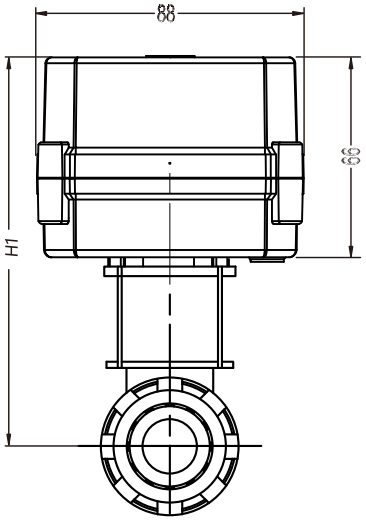


2W Flange

Size	A	B	C	D	n-Φd	E	
						NO	NC
2W-15	101	ø90	ø65	ø40	4-ø14	145	135
2W-20	103	ø100	ø75	ø48	4-ø14	157	147
2W-25	133	ø110	ø85	ø62	4-ø14	162	152
2W-32	142.5	ø132	ø100	ø66	4-ø18	185	185
2W-40	152	ø142	ø110	ø76	4-ø18	200	200
2W-50	178	ø155	ø125	ø96	4-ø18	212	212







Design Feature

- All-copper gear design, high accuracy output torque, especially for multi-channel scaling system.
- Small size, compact structure.
- A variety of control methods, either to accept remote valve position control signal, but also the feedback Signal in place for computer intelligence unit testing.
- Good sealing performance

Miniature Motorized UPVC Ball Valve	
Product Specification	1/2", 3/4", 1", NPT/BSP (Optional)
Max. Working Pressure	1.0MPa
Circulation Medium	Fluid, Air
Rated Voltage	AC/DC9~24V, AC110-230V (Optional)
Working Current	≤ 800mA
Open/Close Time	≤ 15 Sec
Life Time	70,000 times
Actuator Material	Engineering Plastics
Valve Body Material	UPVC
Sealing Material	PTFE
Actuator Rotation	90°
Max. Torque Output	10N.M
Ambient Temperature	-15°C ~ 50°C
Liquid Temperature	2°C ~ 90°C
Line Control	CR2-01, CR2-02 , CR3-03, CR4-01, CR5-01, CR5-02, CR7-03, CR7-04 (Optional)
Cable Length	0.5m,1.5m(Optional)
Manual Override	No
Indicator	Yes
Protection Class	IP67

Main Parts Materials			
No.	Parts	Material	Quantity
1	Actuator	PPO	1
2	Body	Stainless Steel	1
3	O-ring	FKM	2
4	Sealing	PTFE	2
5	Ball	Stainless Steel	1
6	O-ring	FKM	2
7	Stem	Stainless Steel	2

Outline Size Dimension						
Size	d1	D1	D2	L1	L2	L3
HKT15(½")	15	20	34	99	21	21
HKTs20(¾")	20	25	40	117	25	25
HKT25(1")	25	32	47	132	29	29

COVNA®
VALVE

Electric UPVC Ball Valve

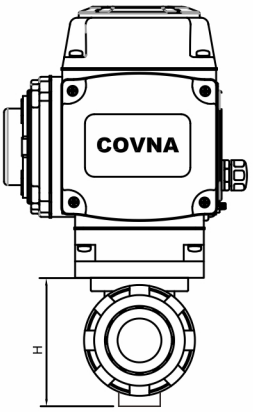
Introduction

Ultra Low Torque，Elegant，Durable，Corrosion Resistance

Full Flow, PTFE Ball sealing, Low Torque Can Use the Handle Regulating Valve Seat Tightness Released By The Central Section Is Still Intact, Valves, Replaceable To Provide Supplementary Platform Embedded Copper Nut Products Convenient Automatic Actuator

Electric Actuator

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bus
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customized
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



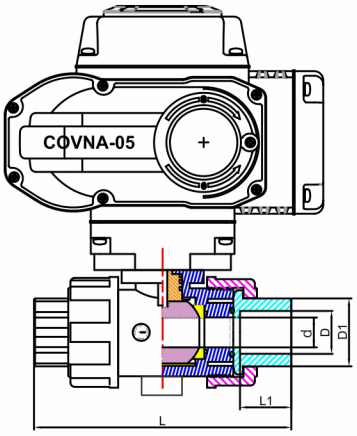
Technical Parameters

Body		Valve components	
Nominal Size	DN15~DN400	Seat Material	EPDM
Body Material	Plastic UPVC	Core Material	Plastic UPVC
Connection Type	Double union	Stem Material	SS304, SS410
Pressure Rating	PN1.0MPa PN1.6MPa	Applicable Medium	Water, Liquids, Gas, Oil, Powder, Steam, Acid-base Corrosive Medium.
Structure type	Floating ball core		

Qutine Size drawing

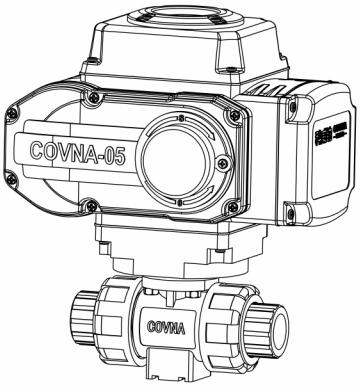
UNIT: mm

MEDLE	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
d	14	20	25	30	38	50	63	78	100
D	20	25	32	40	50	63	75	90	110
D1	30	36	45	55	64	77	96	112	141
L1	22. 8	25	28.5	32	34.8	39	46	48	64.5
L	121. 8	134. 5	150.2	166.8	179	205	233	257	309
H	61	74	90	104	121	146	169	220	255
Weight (Kg)	3. 4	3. 5	3. 65	3.88	4.6	5.1	7. 6	9. 4	12. 6
Actuator	COVNA-05						COVNA-10	COVNA-16	



Installation Instruction

1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.



COVNA®
VALVE

Electric Fluorine lined butterfly valve

Introduction

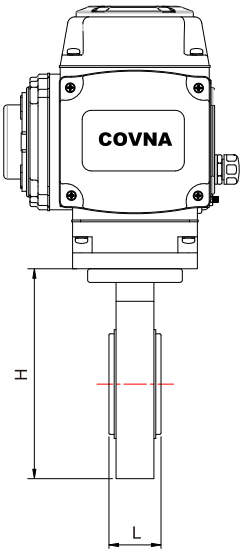
PVC plastic butterfly valve according to the different medium has a variety of optional material, corrosive resistance is strong, adapt to large diameter,small volume, light weight, health non-toxic material, easy maintenance and replacement.

Electric Actuator

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bus
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customized
Protection Class	Ip65; Explosion Proof Construction Are Acailable: EX d II BT4

Technical Parameters

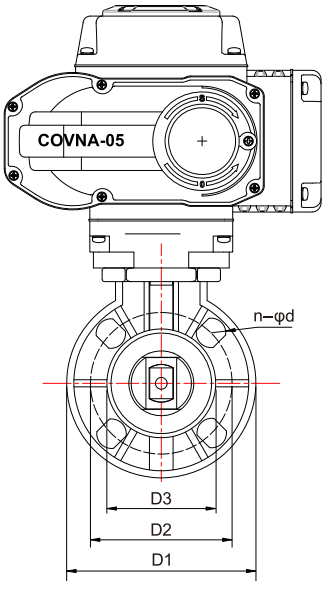
Valve Body		Valve Components	
Size Range	DN50-DN600	Body Material	UPVC, CPVC, RPP, PVDF
Operating Pressure	1.0MPa	Stem Material	UPVC, CPVC, RPP, PVDF
End Connection	Wafer, Flange	Sealing Material	EPDM, NBR
Structure	Midline Structure A Type	Applicable Media	Compatible PVC Food Industry Chemical Solvents



Qutine Size drawing

UNIT: mm

MEDLE	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN500
Inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
D	52.7	64.4	83	104.2	123.3	157	202.5	250.5	301.6	333.3	389.6	491.6
D1	165	185	200	220	250	285	340	395	445	505	565	670
D2	125	145	160	180	210	240	295	355	410	470	525	620
D3	99	118	132	156	184	211	266	319	370	429	480	582
L	108	112	114	127	140	140	150	165	185	195	216	229
H	192	207	224	255	290	325	386	460	510	565	632	759
n–φd	4–φ18	4–φ18	8–φ18	8–φ18	8–φ18	8–φ22	8–φ22	12–φ22	12–φ22	16–φ22	16–φ26	20–φ26
Weight (Kg)	4.48	4.48	5.28	7.38	7.78	9.02	10.48					



Installation Instruction

1. When removing the valve from storage, a careful check should be made to ensure that the valve has not been damaged during the storage period.
2. Valve open or close position is indicated on the notch plate for lever operated valves or on the top of the gear operator for gear operator operated valves.
3. Center valve, span body with bolts, but do not tighten. Slowly open disc to ensure that it clears adjacent pipe ID and leave at full open position.
4. For flange welding center valve with disc 10 open between flanges, span bolts, align this assembly in pipe and tack weld flanges to pipe. After tack welding, remove valve and finish welding.
5. Valve should be checked for identification purpose and ensure that characteristics of valve matches to those specified for piping specifications, for the line where that is to be mounted. Nameplate instructions will give the necessary information.

COVNA®
— VALVE —

Penumatic UPVC Ball Valve

Introduction

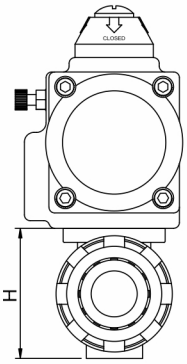
Ultra Low Torque，Elegant，Durable，Corrosion Resistance

Full Flow, PTFE Ball sealing, Low Torque Can Use the Handle Regulating Valve Seat Tightness Released By The Central Section Is Still Intact, Valves, Replaceable To Provide Supplementary Platform Embedded Copper Nut Products Convenient Automatic Actuator

Pneumatic Actuator

Double acting	Air to open, air to close, air supply failure to keep the current position
Single Acting N/C	Air to open, interrupt air to close, air failure to close
Single Acting N/O	Air to close, interrupt air to open, air failure to open
Optional accessory	Reversing solenoid valve, limit switch box, air filter reducing valve, positioner, handle manual, lock up valve

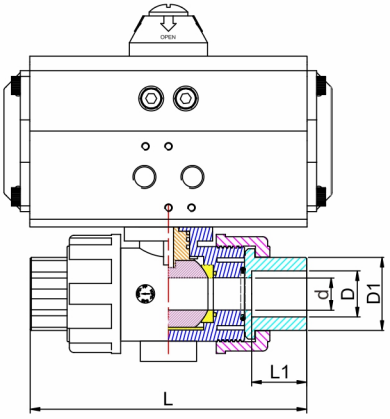
Technical Parameters



Body		Valve components	
Nominal Size	DN15~DN100	Seat Material	EPDM
Body Material	Plastic UPVC	Core Material	Plastic UPVC
Connection Type	Double union	Stem Material	SS304, SS410
Pressure Rating	PN1.0MPa PN1.6MPa	Applicable Medium	Water, Liquids, Gas, Oil, Powder, Steam, Acid-base Corrosive Medium.
Structure type	Floating ball core		

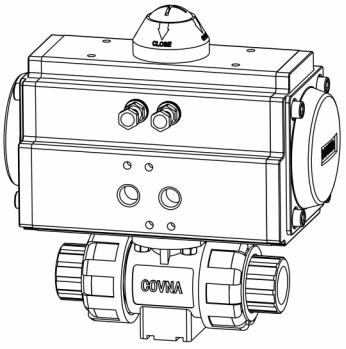
Qutine Size drawing

UNIT: mm



MEDLE	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
d	14	20	25	30	38	50	63	78	100
D	20	25	32	40	50	63	75	90	110
D1	30	36	45	55	64	77	96	112	141
L1	22. 8	25	28.5	32	34.8	39	46	48	64.5
L	121. 8	134. 5	150.2	166.8	179	205	233	257	309
H	61	74	90	104	121	146	169	220	255
Weight (Kg)	1.68	1.78	1.93	2.16	3.68	4.28	5.78	9.38	13.88
Actuator	AT52	AT52	AT52	AT52	AT63	AT63	AT75	AT83	AT105

Maintenance



- Tightening the seal between the valve and the actuator:
  Remove the four bolts underneath the actuator. Separate the actuator from the valve.
  Tighten the nut on the top of the valve body.
  Place the actuator back on the valve and screw everything back into place.

- Tightening the seals between the valve and the inlet/outlet ports:
  Remove the torque bolts and check for any debris or damage to the gaskets.
  Use a torque wrench or other consistent method of tightening the torque bolts to reconnect the inlet and outlet ports.

COVNA®
VALVE

Pneumatic Fluorine lined butterfly valve

Introduction

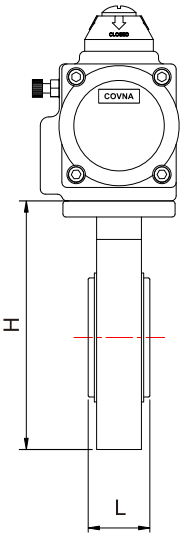
Pvc plastic butterfly valve according to the different medium has a variety of optional material, corrosive resistance is strong, adapt to large diameter,small volume, light weight, health non–toxic material, easy maintenance and replacement.

Pneumatic Actuator

Double acting	Air to open, air to close, air supply failure to keep the current position
Single Acting N/C	Air to open, interrupt air to close, air failure to close
Single Acting N/O	Air to close, interrupt air to open, air failure to open
Optional accessory	Reversing solenoid valve, limit switch box, air filter reducing valve, positioner, handle manual, lock up valve

Technical Parameters

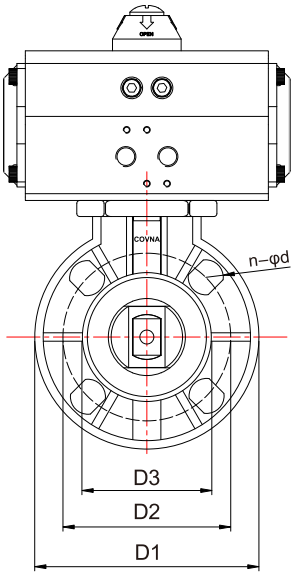
Valve Body		Valve Components	
Size Range	DN50-DN600	Body Material	UPVC, CPVC, RPP, PVDF
Operating Pressure	1.0MPa	Stem Material	UPVC, CPVC, RPP, PVDF
End Connection	Wafer, Flange	Sealing Material	EPDM, NBR
Structure	Midline Structure A Type	Applicable Media	Compatible PVC Food Industry Chemical Solvents



Qutine Size drawing

UNIT: mm

MEDLE	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN500
Inch	2"	2–1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
D	52.7	64.4	83	104.2	123.3	157	202.5	250.5	301.6	333.3	389.6	491.6
D1	165	185	200	220	250	285	340	395	445	505	565	670
D2	125	145	160	180	210	240	295	355	410	470	525	620
D3	99	118	132	156	184	211	266	319	370	429	480	582
L	108	112	114	127	140	140	150	165	185	195	216	229
H	192	207	224	255	290	325	386	460	510	565	632	759
n–φd	4–φ18	4–φ18	8–φ18	8–φ18	8–φ18	8–φ22	8–φ22	12-φ22	12-φ22	16-φ22	16-φ26	20-φ26
Weight (Kg)	2.36	2.66	3.76	4.96	7.5	9.26	13.14					



Maintenance

- Tightening the seal between the valve and the actuator:
  Remove the four bolts underneath the actuator. Separate the actuator from the valve.
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  Place the actuator back on the valve and screw everything back into place.

- Tightening the seals between the valve and the inlet/outlet ports:
  Remove the torque bolts and check for any debris or damage to the gaskets.
  Use a torque wrench or other consistent method of tightening the torque bolts to reconnect the inlet and outlet ports.