PVC-U JOINTING PROCEDURES



VALDUS Was established in 1978 and with in a relatively short space of time had become a major player in european and italian industrial manufacturing sector specializing in the design and manufacture of the injection moulds of the thermoplastic industry and subsequently in the production of injection moulded valves and other similar product in U-PVC , C-PVC , PP-H , PVDF , and Material , Valdus thermoplastic valve

are suitable for use in pressure pipeline system up to 16 bar in industrial and chemical process pipeline as well as for municipal water reticulation and irrigation installations the intert materials use dalsolend themselves to the safe conveyance of potable water and food stuffs in the line with the moststringent international regulation our product range consists of comprehensive line of both U-PVC valve and Fitting as well Our products carry international certification under several Quality Marks



The Moulds for our produced from designs emanating form technical design department which is backed up by the latest CAD and CAM Programmed design technology All Valdus manufacturing and processing procedures comply with UNI EN ISO 9001 : 2008 Specification and similar

standard apply to products quality , after sales services and documention requirments - the latter under the super vistion of an executive appointed by and responsible to managing director Valdus major objectives are to maintain and increase our market share by adopting a policy of pursuing innovation and excellence to enable the company to oftter more completed and comprehensive systems incorporating the latest avaliable technology to broader customer base and the winder global enviroment



PVC-U JOINTING PROCEDURES

About VALDUS

Since 1978, Valdus has manufactured and marketed thermoplastic pipe fittings, valves, and piping components to wholesalers in the industrial PVF, process piping, water treatment, pool/spa, commercial plumbing, and irrigation markets.

Valdus entered the Custom Injection Molding business in 1985, building on the expertise gained from **molding proprietary products in the valve and pipe fitting market. Our experience working with** CPVC, PVC, PP, ABS, HDPE, Noryl, and other materials enables us to work with a variety of industries. In addition to injection molding, we perform secondary CNC machining operations, hot stamp and pad print, and sub-assembly.

The Valdus Valve line has answered the need for reliable flow control for over 30 years. Our offering includes corrosion resistant Ball Valves, Check Valves, Butterfly Valves, Y-Line Strainers, and Unions. For more details on these and other products offered by Valdus

PVC-U IMPERIAL ACCESSORIES

PVC-U (Unplasticised polyvinyl chloride) is one of the most popular thermoplastic materials used for pressure pipework installations. Light in weight PVC-U has excellent resistance "to chemicals and abrasion, is tasteless and odourless making it ideal for use with" potable water systems **and most food products as its extremely smooth bore gives excellent flow characteristics without** sediment or deposit.

PVC-U is resistant to most solutions of acids, alkalis, salts and solvents."
Connections can be made by either solvent cement or BSP threaded fittings.

PVC-U systems are light, strong and simple to fit using a solvent cement."

PVC-U is approved by the Water Research Advisory Scheme (WRAS) for use with potable water.

PVC-U is suitable for temperatures of 0 deg C to 60 degrees C

Attention Search Engines :
Valdus is a manufacturer of thermoplastic valves, plastic valves.
Products: PVC Ball Valve, CPVC Ball Valve, PVC Butterfly Valve, Ball Valves, Check Valves, Swing Check Valves, Ball Check Valves, Butterfly Valves, Y-Line Strainers, Unions, Slo-Close Valves, Injection Molding, Custom Injection Molding, Ultrasonic Welding, Empire Molded Plastics, VALDUS Manufacturing, S.R.L., Large Tonnage Molding, Large Part Molding

PVC-U JOINTING PROCEDURES

PVC-U cement is gap filling
PVC-U cement softens the inside of the fitting and the outside of the pipe to form a joint chemically.
Strength of joint is reduced if surfaces are not cleaned and properly prepared.

1. Cut the pipe end square.
2. Remove burrs and clean out swarf. A chamfer must be filed approx 3mm x 45° (This will prevent the layer of cement being scraped away as the pipe is pushed into the fitting).
3. Use a felt marker pen or pencil to mark the pipe at the distance which will penetrate the socket to the root/stop.
4. Thoroughly clean the surfaces of both pipe and fittings with MEK cleaner on a clean lint-free cloth. Please note it is not necessary to abrade pipe or fitting unless pipes are discoloured/sun bleached.
5. Stir the PVC-U Cement thoroughly.
6. Use a clean brush approximately half as wide as the pipe to be jointed.
   Apply cement to the pipe and fittings using longitudinal strokes.
   The pipe should have a slightly thicker coating than the fitting.
   The prepared areas should be completely covered with cement.
   Note: It is important to apply cement quickly to enable assembly without excessive force being required.
7. Immediately after application of cement push pipe fully home into the fitting without rotating.
   Hold the pipe and fitting for up to a minute, depending on size, to ensure fitting does not slide off the pipe.
   Note: When working under cold conditions ensure the joints are free from frost and moisture and allow extra curing time.
8. Wipe off excess cement from both sides of the joint using a clean lint-free cloth.
9. Replace lids on tins.
10. Clean brush in MEK cleaner.

PRECAUTIONS
The jointing area must be well ventilated
Do not allow a naked flame or smoking in the jointing area
Ensure cement is used prior to its expiry date (shown on bottom of tin)
Wear rubber or latex gloves when applying MEK cleaner and PVC-U cement
Never dilute PVC-U solvent cement
Always replace lids on tins when not in use
Always use clean brushes
Always use clean lint-free cloth or absorbent paper
Use a shelter to keep jointing surfaces dry in wet weather

CEMENT SETTING TIMES

PIPE DIAMETER	UP TO 2"		21/2" TO 4"		5" AND ABOVE	
Temperature	Up to 10 bar	Up to 16 bar	Up to 10 bar	Up to 16 bar	Up to 10 bar	Up to 16 bar
>10°C	2 h	4 h	4 h	8 h	8 h	16 h
5°C to 10°C	4 h	8 h	8 h	16 h	16 h	32 h

These times are applicable to Griffon cement.

CEMENT USAGE RECOMMENDATIONS
The following is an estimation of the number of joints likely to be achieved per litre of solvent cement.

NOMINAL BORE	NUMBER OF JOINTS	TYPE AND SIZE OF BRUSH	NUMBER OF PEOPLE
3/8" - 1/2"	300	4mm Round	1
3/4" - 1"	180	8mm Round	1
11/4" - 2"	100	1" Flat	1
21/2" - 3"	50	2" Flat	1
4"	20	2" Flat	2
5" - 6"	10	3" Flat	2
8"	8	3" Flat	3
10"	3	3" Flat	3
12"	2	3" Flat	3

INSTALLING THREADED FITTINGS

1. Ensure all threads are clean.
2. Apply PTFE tape to the male thread for 1½ turns in a clockwise direction.
3. Screw the female threaded fitting by hand onto the male thread.
4. It should be possible to screw the fitting on by hand for ⅔ of the thread length.
5. After tightening by hand add an extra ½ turn with a suitable tool ie strap wrench

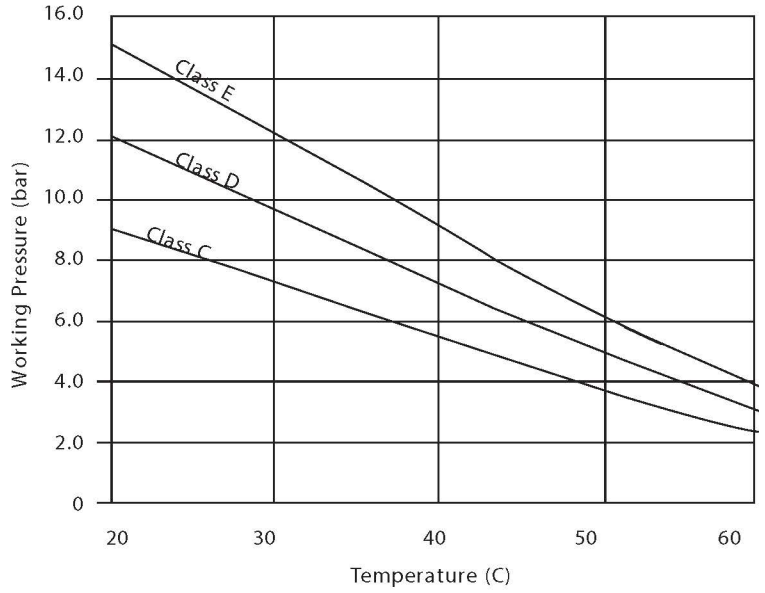
PRECAUTIONS
Use PTFE tape only. Do not use thread seal paste or any other jointing compound. Do not force tightening of the joint under any circumstances. For connecting plastic pipework systems to metal pipework systems composite unions and/or flanges must be used.

PVC-U JOINTING PROCEDURES

Imperial PVC-U products are generally manufactured in accordance with the following standards:
Pipe - EN1452-2 / BS3505/06 ASTM D-1784 / D1785
Fittings - EN1452-3 / BS4346 Part 1 ASTM D-1784 / D-2467 D-2464
Threaded Fittings - BS21, DIN2999, ISO7 / D-2464

Unless otherwise stated PVC-U Pressure Fittings have the following pressure ratings:
Solvent Weld - 3/8" to 8" = Class E/15 bar
Threaded = Class D/12 bar
* All quoted at 20°C

Pressure ratings for plastic pipework systems are always quoted at 20°C, it is a fundamental principle of such systems that if the temperature is increased then the pressure rating must be reduced.
PVC-U systems should never be used for temperatures in excess of 60°C.
The following chart gives a rough guide as to the pressure/temperature relationship of PVC-U pipework systems.



In above ground installations it is essential to provide support to ensure that the weight of the pipe and its contents are adequately supported. The recommended maximum support spacings for horizontal runs of PVC-U pipe are given in the table below. Spacings are calculated assuming the pipes are carrying water

1. Fluid density of not more than 1g/cm
2. PN15 pipe / ASTM
3. Horizontal Pipe run

NOMINAL BORE	20°C	50°C
	SPACING GIVEN IN METRES	
3/8"	0.8	0.5
1/2"	0.9	0.6
3/4"	1.0	0.7
1"	1.1	0.8
11/4"	1.2	0.9
11/2"	1.3	1.0
2"	1.4	1.1
21/2"	1.5	1.2
3"	1.6	1.3
4"	1.9	1.3
5"	2.1	1.5
6"	2.3	1.6
8"	2.5	1.8

For vertical pipe runs spacing should be increased by 30%.

NOMINAL BORE	MEAN O.D.
1/2"	21.4
3/4"	26.7
1"	33.6
11/4"	42.2
11/2"	48.3
2"	60.3
21/2"	75.2
3"	88.9
4"	114.3
5"	140.2
6"	168.3
8"	219.1

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and CISQ/Isliuto dei Plastici S.r.l.
hereby certify that the organization

VALDUS

LOCALITA'PIANMERCATO.5
16044 MONLEOSNE DI CICAGNA(GE)

for the following field of activities

Produzione e montaggio di raccordi e valvole in plastica

has implemented and maintains a

Quality Management System

which fulfils the requirements of the following standard

ISO 9001:2000

Issued on: 2014-09-22
Validity date: 2029-09-22

Registration Number: IT-4367

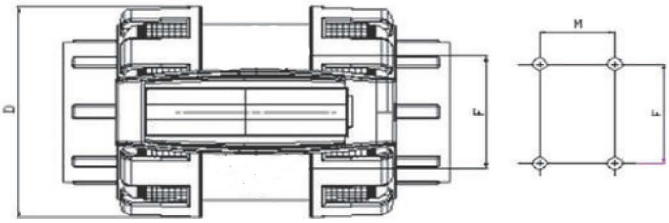
Michael Drechsel
President of IQNet

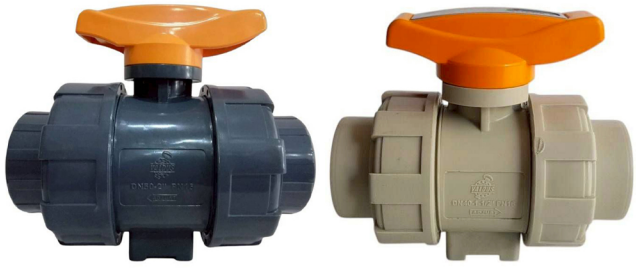
Pål Eddie
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TRUE UNION BALL VALVE

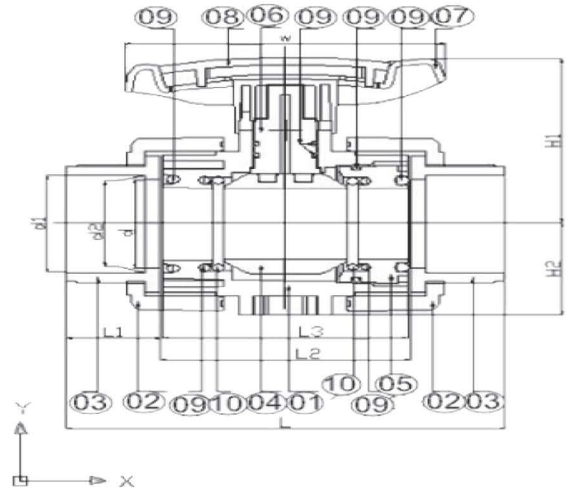
Size : 1/2" - 2"
Joint End : Socket(ANSI/CNS/DNS/JIS)
: Threaded(PT/NPT/BSPF)
Working Pressure : 150 PSI





Specification of material

NO.	PART	MATERIAL	Q'TY
1	BODY	UPVC/CPVC/PP	1
2	UNION NUT	UPVC/CPVC/PP	2
3	UNION END	UPVC/CPVC/PP	2
4	BALL	UPVC/CPVC/PP	1
5	THREADED SPACER	UPVC/CPVC/PP	1
6	STEM	UPVC/CPVC/PP	1
7	HANDLE	ABS	1
8	HANDLE CAP	ABS	1
9	ORING	EPDM/VITON	7
10	SEAT	PTFE	2



Dimensions

Unit: mm

Nom. SIZE	d 1				d 2			
	ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS
DN15 (1/2")	21.54	20.30	22.30	22.40	21.23	20.10	21.70	21.9
DN20 (3/4")	26.87	25.30	26.30	26.40	26.57	25.10	25.70	25.9
DN25 (1")	33.65	32.30	32.33	34.50	33.27	32.10	31.67	33.9
DN32 (1-1/4")	42.42	40.30	38.43	42.50	42.04	40.10	37.57	41.9
DN40 (1-1/2")	48.56	50.30	48.46	48.60	48.11	50.10	47.54	47.9
DN50 (2")	60.63	63.30	60.56	60.60	60.17	63.10	59.44	59.9

Dimensions

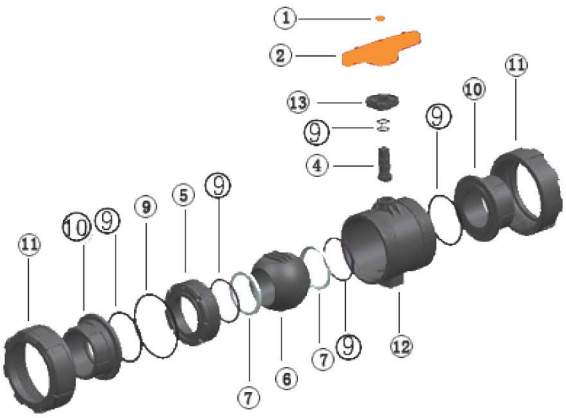
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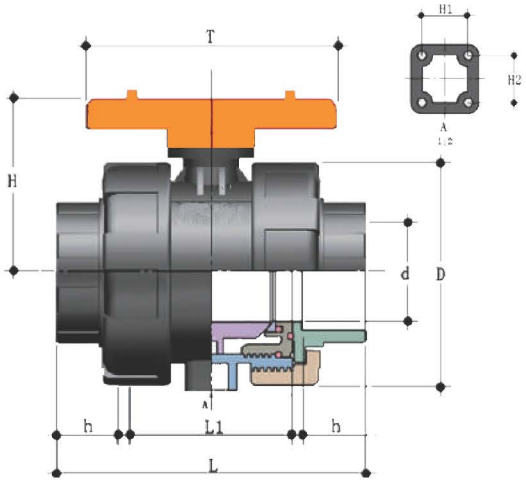
Nom. Size	D	L	H1	H2	L1	L2	L3	W	I	F	Operating torque (N • M)
DN15 (1/2")	53.8	110.2	49.3	27.5	21.8	68.0	55.8	75.0	M6	31.0	3.0
DN20 (3/4")	64.8	120.2	63.0	33.5	25.4	70.5	59.6	92.0	M6	33.0	3.5
DN25 (1")	76.0	138.5	73.0	39.0	27.8	83.5	73.5	93.8	M6	40.0	4.0
DN32 (1-1/4")	85.8	162.8	86.0	43.5	32.0	92.0	82.0	110.0	M8	45.0	5.0
DN40 (1-1/2")	91.5	170.0	95.5	48.0	28.0	98.0	87.0	115.0	M8	52.0	7.0
DN50 (2")	122.0	205.0	113.0	62.0	38.0	126.0	115.0	146.0	M8	70.0	10.0

TRUE UNION BALL VALVE

Size : 2-1/2" - 4"
Joint End : Socket(ANSI/CNS/DNS/JIS)
: Threaded(PT/NPT/BSPF)
Working Pressure : 150 PSI







Specification of material

NO.	PART	MATERIAL	Q'TY
1	HANDLE CAP	ABS	1
2	HANDLE	ABS	1
4	STEM	UPVC/CPVC/PP	1
5	THREADED SPACER	UPVC/CPVC/PP	1
6	BALL	UPVC/CPVC/PP	1
7	BALL SEAT	TEFLON	2
9	ORING	EPDM/VITON	7
10	UNION END	UPVC/CPVC/PP	2
11	UNION NUT	UPVC/CPVC/PP	2
12	BODY	UPVC/CPVC/PP	1

Dimensions

Unit: mm

Nom. SIZE	d 1				d 2			
	ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS
DN65 (21/2")	73.38	75.30	76.60	76.70	72.85	74.80	75.87	75.90
DN80 (3")	89.31	90.40	89.60	89.80	88.70	89.80	88.83	88.90
DN100 (4")	114.76	110.40	114.70	115.00	114.07	109.80	113.98	113.80

Dimensions

Unit: mm

Nom. Size	D	H	h	L	L1	T	H1	H2	Operating torque(N · M)
DN65 (21/2")	148.00	132.00	46.00	234.00	120.50	170.00	35.00	35.00	12.0
DN80 (3")	178.20	156.00	550.00	258.50	139.50	221.00	35.00	35.00	16.0
DN100 (4")	218.90	173.00	65.00	309.00	165.00	250.00	35.00	35.00	25.0

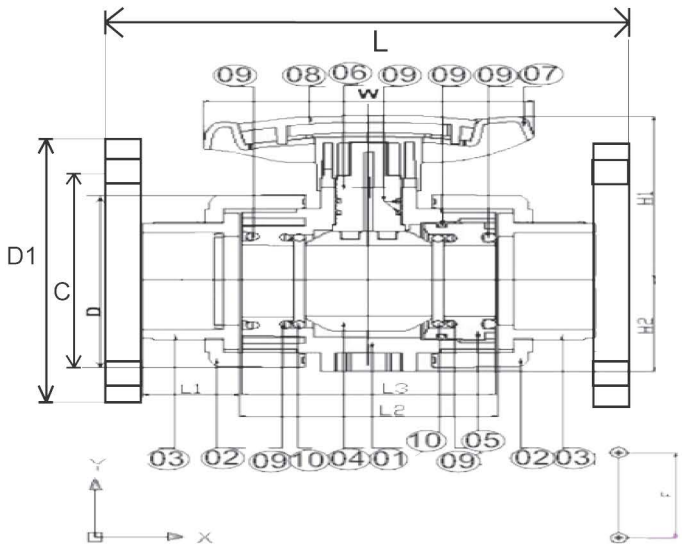
TRUE UNION BALL VALVE (FLANGE TYPE)

Size : 1/2" - 4"
Joint End : Flanged End (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI



Specification of material

NO.	PART	MATERIAL	Q'TY
1	BODY. FLANGE	UPVC/CPVC/PP	1
2	UNION NUT	UPVC/CPVC/PP	2
3	UNION END	UPVC/CPVC/PP	2
4	BALL	UPVC/CPVC/PP	1
5	THREADED SPACER	UPVC/CPVC/PP	1
6	STEM	UPVC/CPVC/PP	1
7	HANDLE	ABS	1
8	HANDLE CAP	ABS	1
9	ORING	EPDM/VITON	7
10	SEAT	PTFE	2



Dimensions

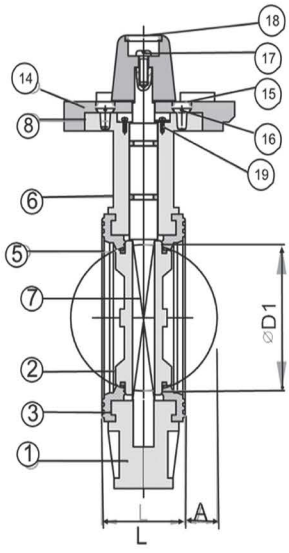
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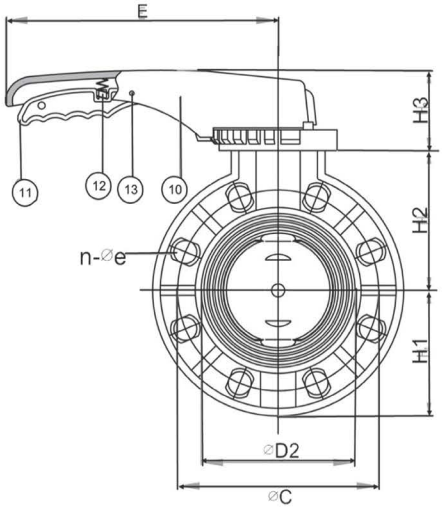
Nom. Size	D	d	C			H1	H2	L2	W	I	F	D1	L	n-φe	
			ANSI	JIS	DIN									ANSI	JIS
DN15 (1/2")	53.8	15	60.3	70	65	49.3	27.5	68.0	75.0	M6	31.0	95	139.2	4-15	
DN20 (3/4")	64.8	20	70.0	75	75	63.0	33.5	70.5	92.0	M6	33.0	100	148.6	4-15	
DN25 (1")	76.0	25	79.4	90	85	73.0	39.0	83.5	93.8	M6	40.0	125	169.7	4-19	
DN32 (1-1/4")	85.8	32	88.9	100	100	86.0	43.5	92.0	110.0	M8	45.0	140	194.8	4-19	
DN40 (1-1/2")	91.5	40	98.4	105	110	95.5	48.0	98.0	115.0	M8	52.0	140	206	4-19	
DN50 (2")	122.0	50	120.7	120	125	113.0	62.0	126.0	146.0	M8	70.0	165	245	4-22	
DN65 (21/2")	148.0	65	139.5	140	145	132	74.0	120.5	170	M10	84	175	281.6	4-19	
DN80 (3")	178.2	75	152.4	150	160	156	89.1	139.5	221	M10	84	200	303.5	8-24	
DN100 (4")	218.9	97	190.5	175	180	173	109.5	165	250	M10	84	220	353.0	8-26	

BUTTERFLY VALVE (LEVER TYPE)

Size : 2" - 8"
Joint End : Flange (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI







Specification of material

NO.	PART	MATERIAL	Q'TY
1	BODY	UPVC/CPVC/PP	1
2	DISC	UPVC/CPVC/PP	1
3	SEAT	EPDM/ VITON	1
5	STABILIZING RING	SS304	2
6	STEM O-RING	EPDM	1
7	VALVE STEM	SS304/ SS316	1
8	SHAFT RETAINER	SS304	1
10	HANDLE LEVER	ABS	1
11	TRIGGER	ABS	1
12	SPRING	SS304	1
13	PIN	SS304	1
14	POSITION LOCK PLATE	UPVC/CPVC/PP	1
15	PLATE CAP	UPVC/CPVC/PP	4
16	PLATE SCREW	SS304	4
17	HANDLE BOLT	SS304	1
18	HANDLE CAP	ABS	1
19	SHAFT RETAINER SCREW	SS304	2

Dimensions

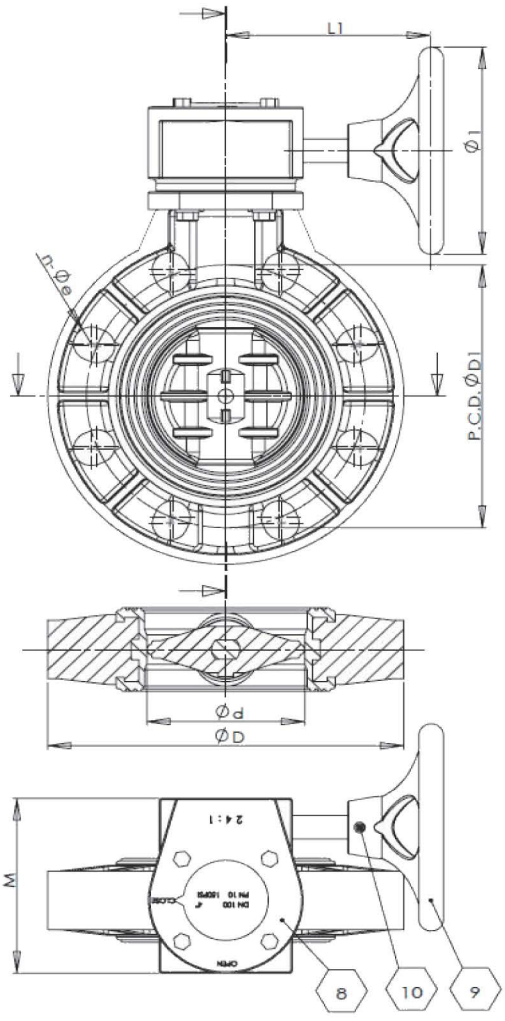
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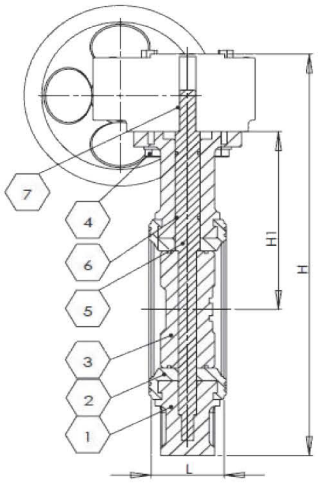
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				JIS	DIN/ANSI							(FT*LB)	(N*M)
2"	44.5	4.8	123	4-20		54	85.8	220	79	88	74	25	34
2-1/2"	48.0	9.5	143	4-21		67	104.5	220	90	97	74	25	34
3"	53.0	15.0	157	8-21		83	119.5	249	96	115	74	25	34
4"	57.0	22.0	186	8-21		101	141.0	249	110	128	74	25	34
5"	68.0	29.5	213	8-24		127	171.5	320	127	157	96	40	54
6"	73.0	39.5	240	8-24		152	197.0	320	145	170	96	40	54
8"	92.0	54.0	296	12-24	8-24	200	249.0	335	172	213	96	59	80

BUTTERFLY VALVE (GEAR TYPE)

Size : 8" - 16"
Joint End : Flange (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI







Specification of material

NO.	PART	MATERIAL	Q'TY
1	BODY	UPVC/CPVC/PP	1
2	DISC	UPVC/CPVC/PP	1
3	SEAT SEAL	EPDM/ VITON	1
5	STEM	SS304	1
6	STEM O-RING	EPDM/VITON	4
7	KEY	STEEL	1
8	GEAR BOX	IRON	1
9	HAND WHEEL	IRON	1
10	PIN	STEEL	1

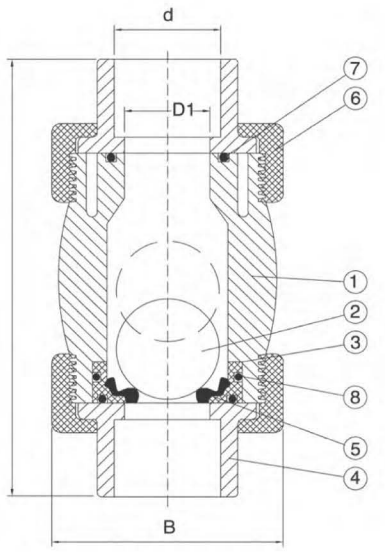
Dimensions

Unit: mm

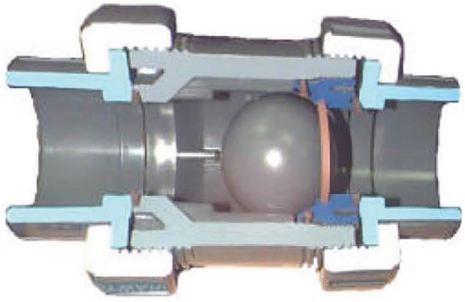
Nom. Size	ØD	Ød	L	P.C.D. ØD1			Ø1	Ll	H1	H	M	N	n-Øe		
				JIS	DIN	ANSI							JIS	DIN	ANSI
8"	460	302	108	400	400	432	280	220	280	595	180	130	16-Ø25	12-Ø25	12-Ø25
10"	412	255	98	355	350	362	280	220	260	551	180	130	12-Ø25	12-Ø25	12-Ø25
12"	460	302	108	400	400	432	280	220	280	595	180	130	16-Ø25	12-Ø25	12-Ø25
14"	500	345	88	445	460	476	380	280	410	670	250	220	16-Ø25	16-Ø25	12-Ø29
16"	565	395	98	510	515	540	380	280	490	770	250	220	12-Ø27	16-Ø27	16- Ø29

TRUE UNION BALL CHECK VALVE

Size : 1/2" - 4"
Joint End : Socket (ANSI/CNS/DNS/JIS)
: Threaded (PT/NPT/BSPF)
Working Pressure : 150 PSI







Specification of material

NO	PART	MATERIAL	QTY
1	BODY	UPVC/PP/CPVC/PVDF	1
2	BALL	UPVC/PP/CPVC/PVDF	1
3	CARRIER	UPVC/PP/CPVC/PVDF	1
4	END	UPVC/PP/CPVC/PVDF	1
5	SEAL	EPDM/VITON	1
6	UNION NUT	UPVC/PP/CPVC/PVDF	2
7	O-RING	EPDM/VITON	2
8	SEAL O-RING	EPDM/VITON	1

Dimensions

Unit: mm

SIZE / Nom.		D1	B	L	Thread(d)	Socket (d)		
					BSPT/NPT	JIS	ANSI	DIN
1/2"	DN25	15	53.5	101	R1/2	22	21	20
3/4"	DN20	19.5	63.3	115	R3/4	26	26	25
1"	DN25	25	73	156	R1	32	33	32
1-1/4"	DN32	32	97.5	171	R1-1/4	38	42	40
1-1/2"	DN40	40	171	171	R1-1/2	48	48	50
2"	DN50	50	195	195	R2	60	60	63
2-1/2"	DN65	62.5	150	226	R2-1/2	76	73	75
3"	DN80	76	184	274	R3	89	89	90
4"	DN100	100	199	367	R4	114	114	110

TRUE UNION SPRING CHECK VALVE

Size : 1/2" - 4"
Joint End : Socket (ANSI/CNS/DNS/JIS)
: Threaded (PT/NPT/BSPF)
Working Pressure : 150 PSI







Specification of material

NO	PART	MATERIAL	QTY
1	BODY	UPVC/PP/CPVC/PVDF	1
2	SPRING	SUS316	1
3	CARRIER	UPVC/PP/CPVC/PVDF	1
4	END	UPVC/PP/CPVC/PVDF	1
5	SEAL	EPDM/VITON	1
6	UNION NUT	UPVC/PP/CPVC/PVDF	2
7	O-RING	EPDM/VITON	2
8	SEAL O-RING	EPDM/VITON	1

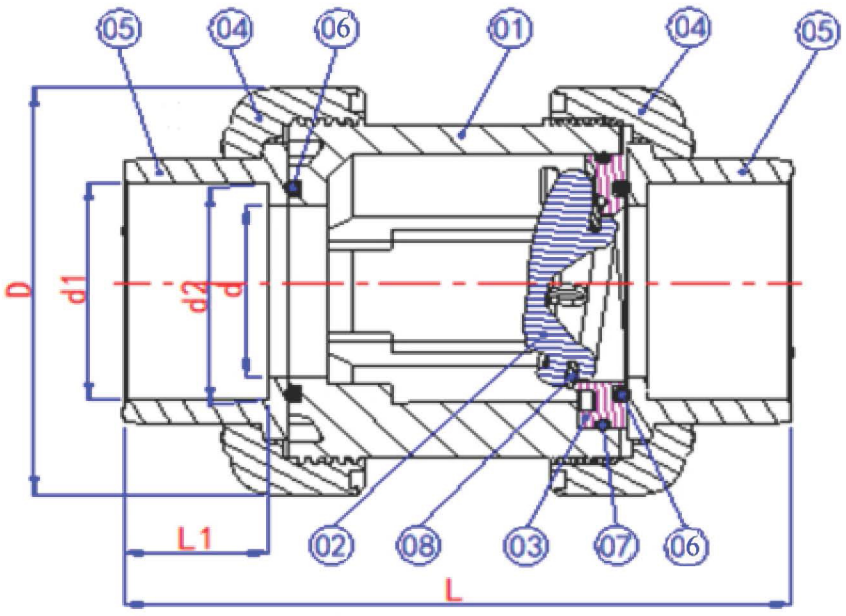
Dimensions

Unit: mm

SIZE / Nom.		D1	B	L	Thread(d)	Socket (d)		
					BSPT/NPT	JIS	ANSI	DIN
1/2"	DN25	15	53.5	101	R1/2	22	21	20
3/4"	DN20	19.5	63.3	115	R3/4	26	26	25
1"	DN25	25	73	156	R1	32	33	32
1-1/4"	DN32	32	97.5	171	R1-1/4	38	42	40
1-1/2"	DN40	40	171	171	R1-1/2	48	48	50
2"	DN50	50	195	195	R2	60	60	63
2-1/2"	DN65	62.5	150	226	R2-1/2	76	73	75
3"	DN80	76	184	274	R3	89	89	90
4"	DN100	100	199	367	R4	114	114	110

TRUE UNION SWING CHECK VALVE

Size : 1-1/2" - 4"
Joint End : Socket (ANSI/CNS/DNS/JIS)
: Threaded (PT/NPT/BSPF)
Working Pressure : 150 PSI





Specification of material

ITEM	PART	MATERIAL	QTY
01	BODY	UPVC / CPVC	1
02	DISC	UPVC / CPVC	1
03	ADJUST SEAT	UPVC / CPVC	1
04	UNION NUT	UPVC / CPVC	2
05	UNION END	UPVC / CPVC	2
06	ORING	EPDM / VITON	2
07	ORING	EPDM / VITON	1
08	SEAL	EPDM / VITON	1

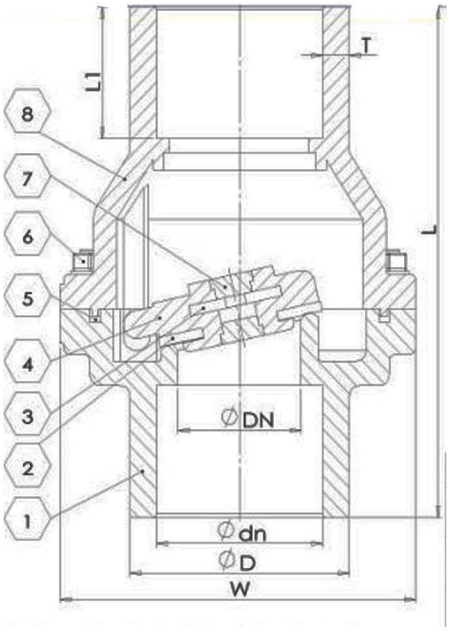
Dimensions

Unit: mm

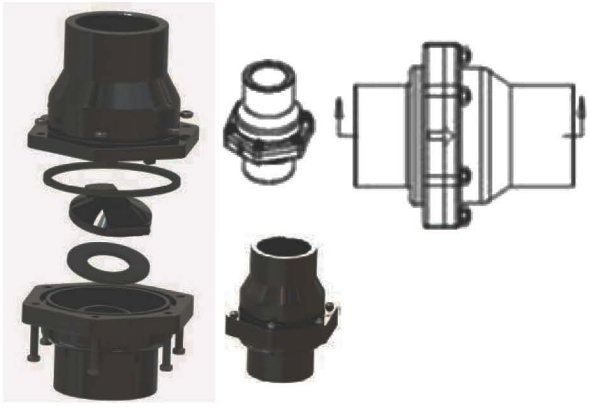
SIZE \ Nom.		D1	B	L	Thread(d)	Socket (d)		
					BSPT/NPT	JIS	ANSI	DIN
1-1/2"	DN40	40	171	171	R1-1/2	48	48	50
2"	DN50	50	195	195	R2	60	60	63
2-1/2"	DN65	62.5	150	226	R2-1/2	76	73	75
3"	DN80	76	184	274	R3	89	89	90
4"	DN100	100	199	367	R4	114	114	110

SWING CHECK VALVE

Size : 3/4" - 6"
Joint End : Socket (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI







Specification of material

NO	PART	MATERIAL	QTY
1	BODY	UPVC/PP/CPVC/PVDF	1
2	SEAL	EPDM/VITON	1
3	PLATE	STEEL	1 - 3
4	FLAPPER	UPVC/PP/CPVC/PVDF	1
5	O-RING	EPDM/VITON	1
6	BOLT	SS304/SS316	4 - 12
7	COVER	UPVC/PP/CPVC/PVDF	1
8	UPPER	UPVC/PP/CPVC/PVDF	1

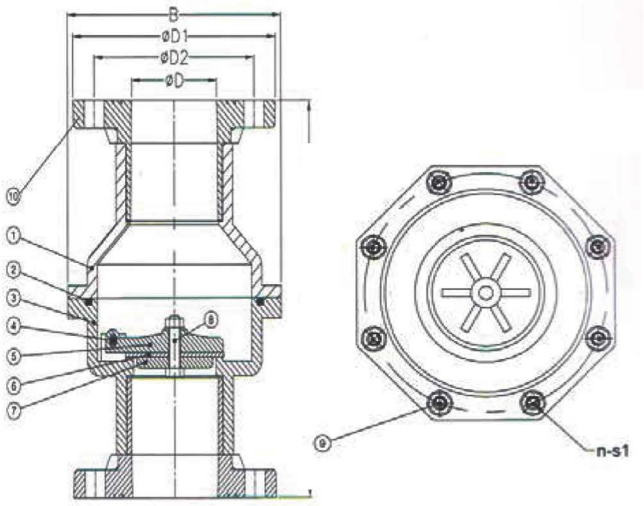
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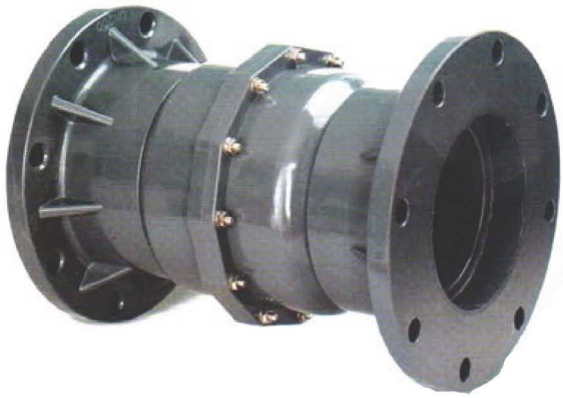
Unit: mm

SIZE / Nom.		D	L1	L	W	T
3/4"	DN20	36	27	98	64	6
1"	DN25	46	27	107	75	7
1-1/4"	DN32	56	34	130	110	8
1-1/2"	DN40	66	38	147	120	9
2"	DN50	81	39	162	140	9
2-1/2"	DN65	95	45	198	148	10
3"	DN80	112	55	236	163	11
4"	DN100	132	75	305	204	11
6"	DN150	194	90	382	292	17

SWING CHECK VALVE (FLANGE TYPE)

Size : 3/4" - 8"
Joint End : Flange (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI





Specification of material

NO	PART	MATERIAL	QTY
1	UPPER BODY	UPVC/CPVC/PP/PVDF	1
2	O-RING	EPDM/VITON	1
3	BODY	UPVC/CPVC/PP/PVDF	1
4	SHAFT	SS304/SS316	1
5	SPIGOT BODY	UPVC/CPVC/PP/PVDF	1
6	SEAT	EPDM/VITON	1
7	BOTTOM	UPVC/CPVC/PP/PVDF	1
8	BOLT	SS304/SS316	1
9	BODY BOLT	SS304/SS316	8
10	FLANGE	UPVC/CPVC/PP/PVDF	2

Dimensions

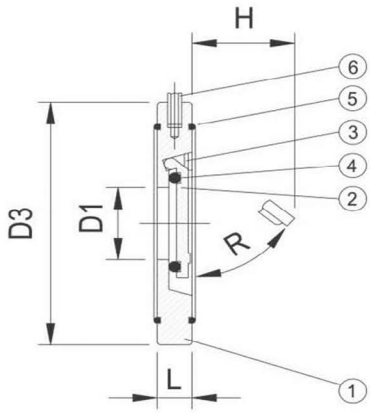
Unit: mm

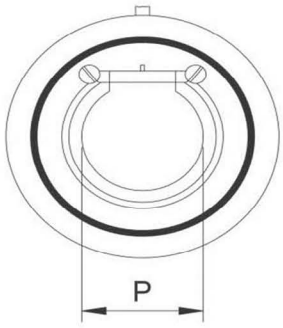
SIZE / Nom.		B	D1	L	D2		
					ANSI	DIN	JIS
3/4"	DN20	45	110	118	70	75	75
1"	DN25	65	153	127	79	85	90
1-1/4"	DN32	80	160	150	88	100	100
1-1/2"	DN40	100	168	194	98	110	105
2"	DN50	150	170	182	120	125	120
2-1/2"	DN65	180	174	256	139	145	140
3"	DN80	200	189	292	152	160	150
4"	DN100	222	214	310	190	180	175
6"	DN150	273	278	413	241	240	240
8"	DN200	273	333	433	298	295	290

WAFER CHECK VALVE

Size : 2" - 12"
Joint End : Flange (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI







Specification of material

NO	PART	MATERIAL	QTY
1	BODY	UPVC/CPVC/PP/PVDF	1
2	FLAPPER	UPVC/CPVC/PP/PVDF	1
3	SCREW	PP	2
4	O-RING	EPDM/VITON	1
5	O-RING	EPDM/VITON	2
6	INSTALLTION DEVICE	SUS316	1

Dimensions

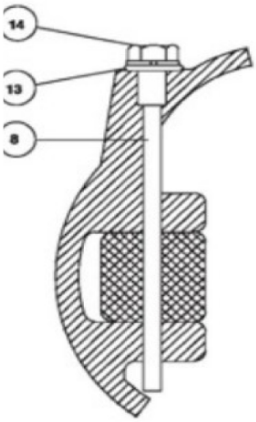
Unit: mm

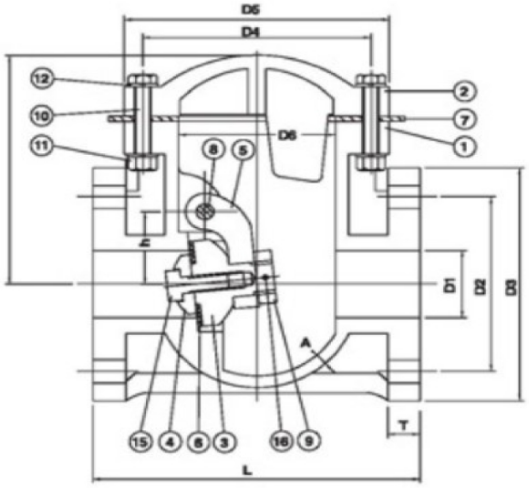
Size / Nom.		D1	D3	P	L	H
2"	DN80	44	119	42	20	54
2-1/2"	DN65	40	119	57	20	51
3"	DN80	54	129	72	20	74
4"	DN100	70	154.5	90	22	91
5"	DN125	82	192	104	24	142
6"	DN150	92	218	114	26	147
8"	DN200	112	273	134	35	191
10"	DN250	190	285	179	40	229
12"	DN300	216	325	226	45	259

SWING CHECK VALVE (HORIZENTAL TYPE)

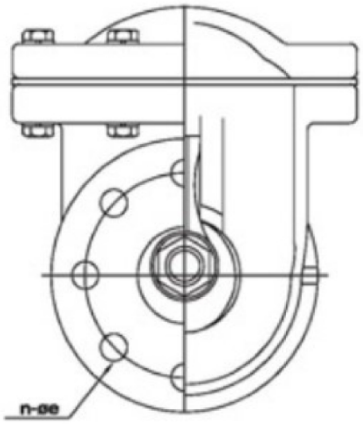
Size : 1″ - 10″
Joint : Flange (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI







NO	PART	MATERIAL	QTY
1	BODY	UPVC/CPVC/PP/PVDF	1
2	BONET	UPVC/CPVC/PP/PVDF	1
3	DISC	UPVC/CPVC/PP/PVDF	1
4	GASKET HOLDER	UPVC/CPVC/PP/PVDF	1
5	SWING ARMS	UPVC/CPVC/PP/PVDF	1
6	DISC GASKET	EPDM/VITON	1
7	BONNET GASKET	EPDM/VITON	1
8	SHOT	PP	1
9	DISC HOLD	PP	1
10	BOLTS	SUS304	6,8,10,12
11	NUTS	SUS304	6,8,10,12
12	WASHERS	SUS304	6,8,10,12
13	O-RING	EPDM/VITON	1



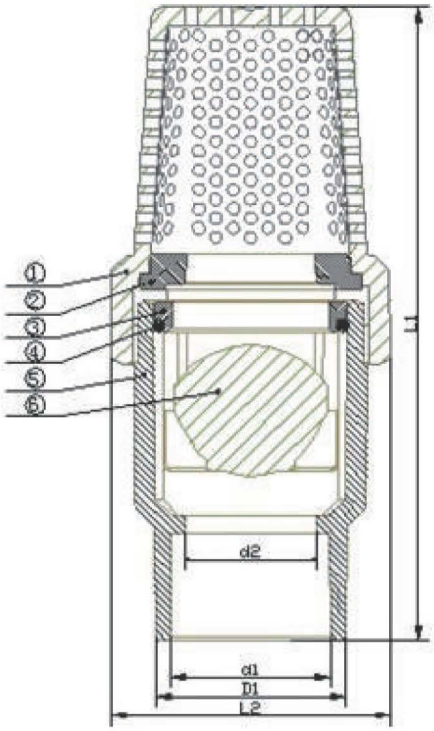
Dimensions

Unit:mm

Size \ Nom.		D1	D2	D3	e	D4	D5	D6	L	T	A	H	STANDARD		
													JIS	ANSI	DIN
1"	DN25	25	90	125	19	110	130	75	160	15	6	40	79	85	90
1-1/2"	DN40	41	105	140	19	125	145	85	180	18	8	45	88	100	100
2"	DN50	52	120	155	19	155	180	105	200	18	8	55	98	110	105
2-1/2"	DN65	80	140	175	19	181	205	130	240	20	9	70	120	125	120
3"	DN80	80	150	185	19	181	205	130	260	20	9	70	139	145	140
4"	DN100	100	175	210	19	235	265	170	300	24	10	90	152	160	150
5"	DN125	125	210	250	23	285	330	210	350	24	14	110	190	180	175
6"	DN150	150	240	280	23	330	370	250	400	30	16	135	241	240	240
8"	DN200	200	290	330	23	390	425	300	500	30	18	170	298	295	290
10"	DN250	250	355	395	23	330	370	250	600	38	16	135	355	362	350

FOOT VALVE

Size : 3/4" - 6"
Joint End : Socket (ANSI/CNS/DNS/JIS)
: Threaded (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI





Specification of material

NO.	PART	MATERIAL	Q'TY
1	FILTER	UPVC/CPVC/PP	1
2	PAD	UPVC/CPVC/PP	1
3	SPACER	UPVC/CPVC/PP	1
4	SEAL	EPDM	1
5	BODY	UPVC/CPVC/PP	1
6	BALL	UPVC/CPVC/PP	1

Dimensions

Unit: mm

Nom. / SIZE	d 1				d 2				D1	L1	L2
	ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS			
DN15(1/2")											
DN20(3/4")	26.87	25.30	26.30	26.40	26.57	25.10	25.70	25.9	35	146	63
DN25(1")	33.65	32.30	32.33	34.50	33.27	32.10	31.67	33.9	43	174	73
DN32(1-1/4")	42.42	40.30	38.43	42.50	42.04	40.10	37.57	41.9	53	190	85
DN40(1-1/2")	48.56	50.30	48.46	48.60	48.11	50.10	47.54	47.9	62	206	98
DN50(2")	60.63	63.30	60.56	60.60	60.17	63.10	59.44	59.9	75	235	118
DN65(2-1/2")	73.38	75.30	76.60	76.70	72.85	75.10	75.87	75.9	91	302	134
DN80(3")	89.31	90.40	89.60	89.70	88.70	90.10	88.83	88.9	110	350	158
DN100(4")	114.76	110.4	114.7	115.0	114.1	110.10	113.98	113.8	135	428	202
DN150(6")	166.2	166.2	168.8	160.5	164.6	165.3	168.0	160.1	193	475	260

SWING FOOT VALVE

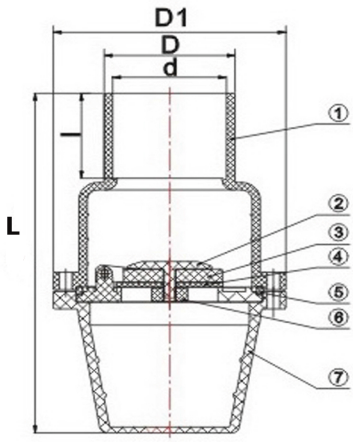
Size : 2-1/2" - 12"
Joint End : Socket (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI

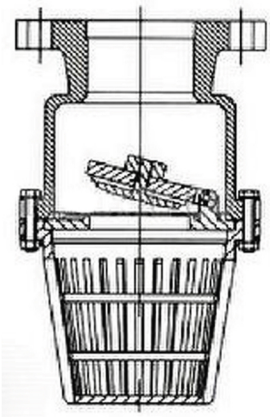


Size : 2-1/2" - 6"



Size : 8"







Size : 10" - 12"

Specification of material

NO	PART	MATERIAL	QTY
1	BODY	UPVC/CPVC/PP/PVDF	1
2	CONNECTOR	EPDM/VITON	1
3	SPRING	SUS316	1
4	GATE	UPVC/CPVC/PP/PVDF	1
5	SEAL	EPDM/VITON	1
6	BODY	UPVC/CPVC/PP/PVDF	1

Dimensions

Unit: mm

Size	Nom.	D	D1	I	L	STANDARD			
						JIS	ANSI	DIN	BSPT
2"	DN50	76.4	183.8	58.2	252	60	60	63	11
2-1/2"	DN65	90	171.6	73.5	293	76	73.03	75	11
3"	DN80	76.4	183.8	58.2	252	89	88.9	90	11
4"	DN100	115	216	93	360	114	114.3	110	11
5"	DN150	161	291	120	500	FLANGE STANDARD			
6"	DN150	161	291	120	500	168.3	168.3	160	11
8"	DN200	161	291	120	580	FLANGE STANDARD			
10"	DN250	191	295	150	584	FLANGE STANDARD			
12"	DN300	261	391	160	645	FLANGE STANDARD			

SWING FOOT VALVE (NEW TYPE)

Size : 2″ - 8″
Joint End : Socket (ANSI/JIS/DIN)
Joint End : Flange (ANSI/JIS/DIN)
Working Pressure : 150 PSI



2″ - 6″



2″ - 8″

ADVANTAGES :

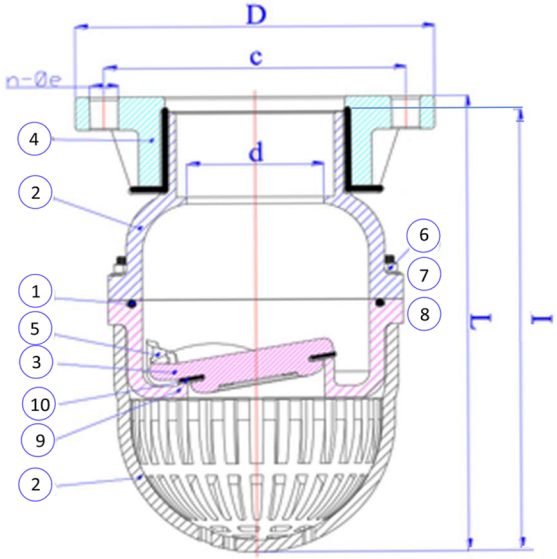
1) Material meet drinking water standard
2) 100% pure virgin material , CaCO3 free (Chalk)
3) UV resistant powder added
4) Can be assembled vertically or horizontally

DESCRIPTION :

1) Material : UPVC , CPVC , PPH
2) Size : 2″ - 8″, 50mm - 225mm ; DN50 - DN200
3) Standard : ANSI,DIN,JIS
4) Joint End : Socket,Flange
5) Working Pressure : 150 PSI
6) Operating Temperature : UPVC (0-55*C)
: CPVC (0-95*C)
7) Valve body color : UPVC (dark gray). CPVC (light gray)

Specification of Material

ITEM	PART	MATERIAL	QTY
1	BODY	UPVC/CPVC/PPH	1
2	BODY	UPVC/CPVC/PPH	1
3	VALVE CLACK	UPVC/CPVC/PPH	1
4	FLANGE	UPVC/CPVC/PPH	1
5	BUKLE	UPVC/CPVC/PPH	1
6	BOLT	SS304/316	8 - 12
7	PAD	SS304/316	8 - 12
8	NUT	SS304/316	8 - 12
9	O-RING	EPDM/VITON	1
10	SEAL	EPDM/VITON	1



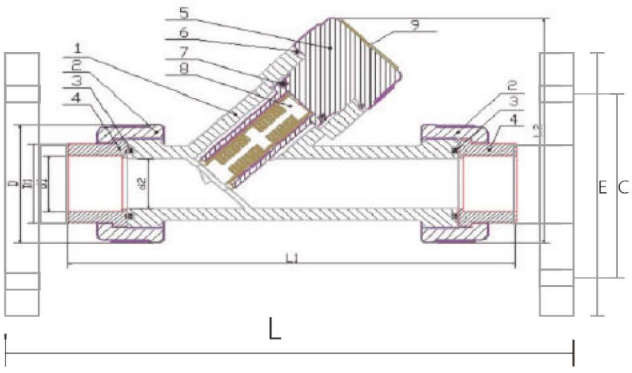
DIMENSIONS

Unit:MM

SIZE	d	D	I	L	C			n - ∅ e	
					ANSI	JIS	DIN	ANSI	DIN/JIS
2"(50)	50.00	125.00	210.00	255.00	140.00	140.00	145.00	4-19	
2-1/2"(65)	63.00	182.00	223.00	268.00	150.00	152.00	160.00	8-19	
3"(80)	75.00	200.00	272.00	330.00	150.00	152.00	160.00	8-19	
4"(100)	95.00	228.00	334.00	410.00	175.00	191.00	180.00	8-22	8-23
5"(125)	95.00	250.00	437.00	525.00	216.00	210.00	210.00	8-22	8-23
6"(150)	150.00	285.00	451.00	545.00	241.00	240.00	240.00	8-22	8-22
8"(200)	150.00	343.00	-	362.00	298.00			8-23	

Y-STRAINER

Size : 1/2″ - 4″
Joint End : Socket (ANSI/CNS/DNS/JIS)
: Flange (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI
Screen Specification : 1/2″ - 2″ 20 Mesh
2-1/2″ - 4″ 10 Mesh





Specification of material

NO.	PART	MATERIAL	Q'TY	NO.	PART	MATERIAL	Q'TY
1	BODY	UPVC	1	6	STRAINER SEAL	EPDM	1
2	UNION NUT	UPVC	2	7	STRAINER O-RING	EPDM	1
3	O-RING	EPDM	2	8	SCREEN	PP	1
4	UNION END	UPVC	2	9	STRAINER COVER	ABS	1
5	STRAINER NUT	UPVC	1				

Dimensions

Unit: mm

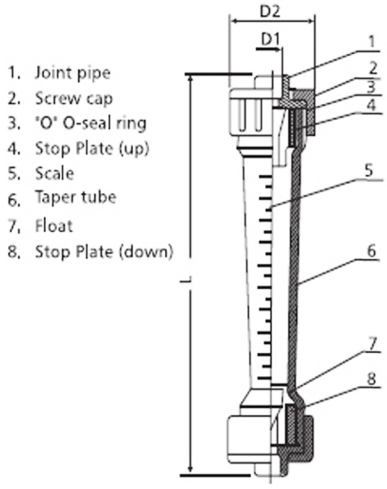
Nom. SIZE	d 1				d 2				D	L	L1	L2	H	E	n-φe		C		
	ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS							ANSI	JIS	ANSI	JIS	DIN
DN15(1/2")	21.54	20.30	22.30	22.40	21.23	20.10	21.70	21.9	42	178	149	82	42	95	4-15		60.3	70	65
DN20(3/4")	26.87	25.30	26.30	26.40	26.57	25.10	25.70	25.9	52	198.4	170	110	58	100	4-15		70.0	75	75
DN25(1")	33.65	32.30	32.33	34.50	33.27	32.10	31.67	33.9	58	223.2	192	119	52	125	4-19		79.4	90	85
DN32(1-1/4")	42.42	40.30	38.43	42.50	42.04	40.10	37.57	41.9	72	240.0	208	131	72	139	4-19		88.9	100	100
DN40(1-1/2")	48.56	50.30	48.46	48.60	48.11	50.10	47.54	47.9	82.6	294.0	258	165	82.6	140	4-19		98.4	105	110
DN50(2")	60.63	63.30	60.56	60.60	60.17	63.10	59.44	59.9	101	346	306	197	101	165	4-22		120.7	120	125
DN65(2-1/2")	73.38	75.30	76.60	76.70	72.85	75.10	75.87	75.9	128	424.6	377	245	128	175	4-19		139.5	140	145
DN80(3")	89.31	90.40	89.60	89.70	88.70	90.10	88.83	88.9	146	480	435	272	146	200	8-24		152.4	150	160
DN100(4")	114.76	110.4	114.7	115.0	114.1	110.10	113.98	113.8	168	512	468	315	168	220	8-19		190.5	175	180

ROTA METER UPVC (PLASTIC TUBE)

- Plastic Tube Type
- Glue Joint / Threaded Connection
- Operating Temp : 0 - 60 *C
- Accuracy : +/ -4%
- Body : Material : AS / Acrylic
- Float Material : AS / SS316 / PTFE
- Fitting Material : ABS / UPVC
- O-ring Material : Silicon / EPDM / Viton



The structure chart of LZS-15-LZS-65



Model	SHORT TYPE				LONG TYPE			
	L	D1	D2	D3	L	D1	D2	D3
VZH-15	202	44	26	20	280	44	26	20
VZH-20	230	51	31	25	322	51	31	25
VZH-25	226	57	40	32	380	57	40	32
VZH-32	288	74	49	40	390	74	49	40
VZH-40	380	87	60	50	410	87	60	50
VZH-50	341	98	73	63	430	98	73	63
VZH-80	430	123	82	75				

VZH-15 (L/H)	VZH-20 (L/H)	VZH-25 (L/H)	VZH-32 (m3/h)	VZH-40 (m3/h)	VZH-50 (m3/h)	VZH-65 (m3/h)	VZH-80 (m3/h)	VZH-100 (m3/h)	VZH-125 (m3/h)	VZH-150 (m3/h)
		60-600	0.4-4	0.4-4	0.4-4	5-25	5-25	8-50	15-150	15-150
6-60	40-400	100-1000	0.6-6	0.6-6	0.6-6	8-40	8-40	12-60	22-180	22-180
10-100	60-600	160-1600	1.0-10	1.0-10	1.0-10	12-60	12-60	14-90	20-200	20-200
16-160	100-1000	250-2500		1.2-12	1.6-16	1.0-10	12-80	18-120		
25-250		300-3000			7-23	1.6-16				
40-400										
60-600										
80-800										
100-1000										

VALDUS VALDUS

Y-STRAINER VALVE (FRP)

GL41 FLANGED Y-STRAINER

Brief introduction

Flanged strainers are main parts of all kinds of pumps, valves in the pipeline. It is suitalbe for pipeline of nominal pressure≤1.6MPa. Mainly used to filter dirt, rust and other debris in media such as steam, air, and water etc.

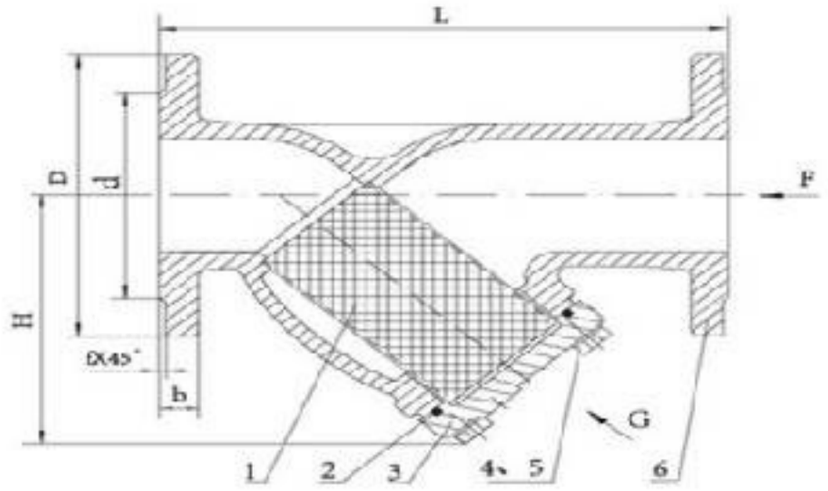


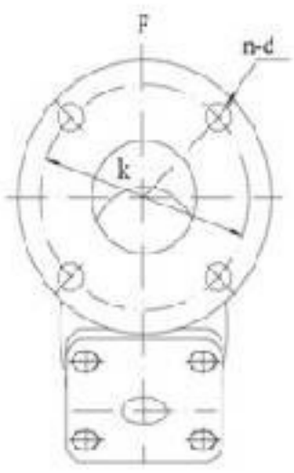
Materials of Main Parts

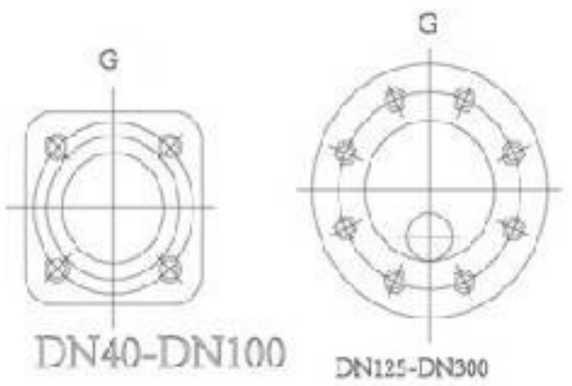
Parts	Material
Body	FRP
Bonnet	Stainless steel
Filtering net	Stainless steel

Main Specifications

Nominal diameterDN(mm)	40~600
Nominal pressure(MPa)	1.6
Suitable temperature℃	≤200
Suitable media	Water, oil, gas, etc.
Main material	FRP







Overall & Connection Dimensions and Weights

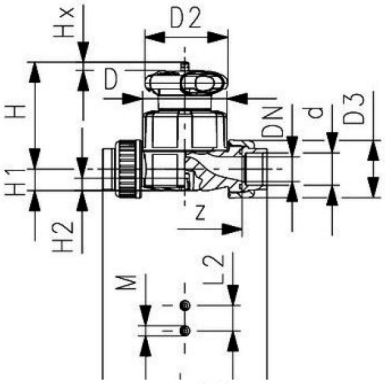
DN	D	d	K	L		b	f	n-d	H	Weight(kg)	
				F1	GB					F1	GB
40	150	84	110	200	200	18	3	4-18	125	9.5	9.5
50	165	99	125	230	230	20	3	4-18	133	12	12
65	185	118	145	290	290	20	3	4-18	154	16	16
80	200	132	160	310	310	22	3	8-18	176	20	20
100	220	156	180	350	350	24	3	8-18	204	28	28
125	250	184	210	400	400	26	3	8-18	267	45	45
150	285	211	240	480	480	26	3	8-22	310	62	62
200	340	266	295	600	600	30	3	12-22	405	112	112
250	405	319	355	730	605	32	3	12-26	455	163	125
300	460	370	410	850	635	32	4	12-26	516	256	145
350	520	430	470	980	696	32	4	16-26	495	368	214
400	580	482	525	1100	790	38	4	16-30	560	440	304
450	640	532	585	1200	850	40	4	20-30	641	- -	396
500	715	585	650	1250	978	42	4	20-33	850	- -	450
600	840	685	770	1450	1295	48	5	20-36	980	- -	700

DIAPHRGM VALVE

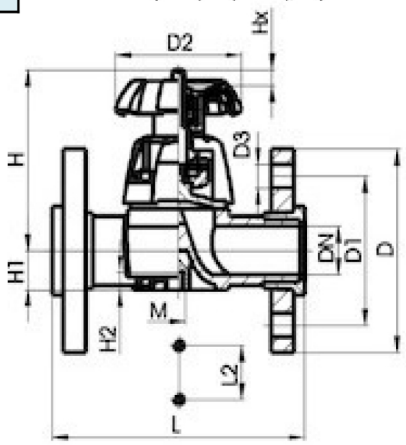
Size : 1/2" - 12"
Joint : Socket(ANSI/CNS/DNS/JIS)
: Threaded (PT/NPT/BSPF)
: Flange (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI

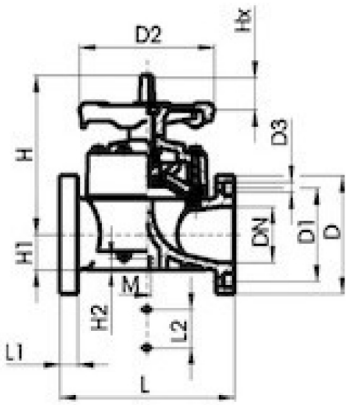












Part Material

NO	PART	MATERIAL	QTY
1	BODY	UPVC/CPVC/PP/PVDF	1
2	DIAPHARGM	EPDM/VITON/PTFE	1
3	SPRING	SUS316	1
4	GATE	UPVC/CPVC/PP/PVDF	1
5	SEAL	EPDM/VITON	1
6	NUT	UPVC/CPVC/PP/PVDF	1

Dimension Unit:mm

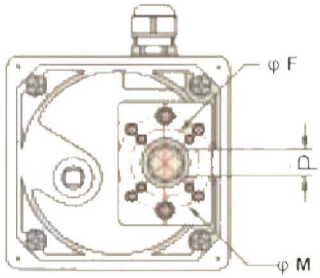
Size \ Nom.		d	D	D2	D3	H	H1	H2	L	STANDARD		
										JIS	ANSI	DIN
1/2"	DN15	16	65	65	43	73	14	12	110	70	60	80
3/4"	DN20	20	65	65	43	73	14	12	120	75	70	91
1"	DN25	25	65	65	51	81	18	12	130	90	80	98
1-1/4"	DN35	32	87	87	58	107	22	12	160	104	82	155
1-1/2"	DN40	40	87	87	72	115	26	15	180	105	93	129
2"	DN50	50	135	135	83	148	32	15	210	120	110	148
2-1/2"	DN65	63	135	135	100	166	39	15	250	140	125	162
3"	DN80	65	140	175	130	166	39	15	280	150	145	172
4"	DN100	75	140	175	130	173	42	15	340	175	160	190
6"	DN150	75	155	183	140	173	42	15	480	240	240	240
8"	DN200	83	155	183	140	180	42	15	510	290	275	225
10"	DN200	83	175	192	140	180	42	18	570	355	315	284
12"	DN250	90	175	192	140	180	42	18	680	400	367	320

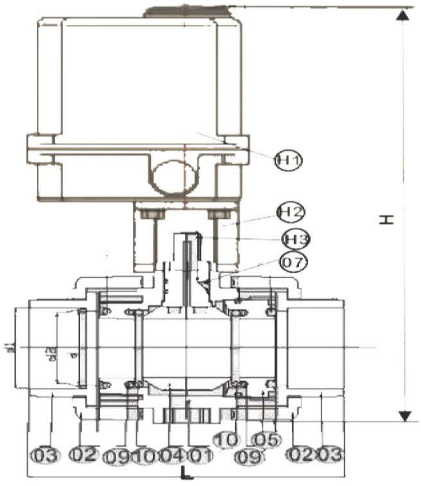
ELECTRIC ACTUATOR BALL VALVE

Size : 1/2" - 4"
Joint End : Socket (ANSI/CNS/DNS/JIS)
: Threaded (PT/NPT/BSPF)
: Flange (ANSI/CNS/DIN/JIS)
Working Pressure : 150 PSI

SIZE	Specification				Speed(sec.)		Output Torque (kgf/cm)		
	POWER	AC110V	AC220V	DA24V	AC	DC	AC110	AC220V	DC24V
1/2" - 2"	10W	0.6A	0.3A	0.1A	10	15	350	362	438
UM-1	15W	0.7A	0.4A	N/A	10	N/A	410	432	N/A
2-1/2"	15W	0.6A	0.3A	0.1A	10	15	350	362	438
UM-1	10W	0.7A	0.4A	N/A	10	N/A	410	432	N/A
3"-4"	15W	12.A	0.4A	N/A	12	N/A	500	500	N/A
UM-2	10W	N/A			N/A	16	N/A	N/A	700







Specification of material

NO.	PART	MATERIAL	Q'TY
1	BODY	UPVC/CPVC/PP	1
2	UNION NUT	UPVC/CPVC/PP	2
3	UNION END	UPVC/CPVC/PP	2
4	BALL	UPVC/CPVC/PP	1
5	THREADED SPACER	UPVC/CPVC/PP	1
7	STEM O-RING	EPDM/VITON	2
9	O-RING	EPDM/VITON	5
10	SEAT	PTFE	2
H1	ELECTRIC ACTUATOR	NYLON	1
H2	BRACKET	ALUMINUM	1
H3	ADAPTER	SUS304	1

Dimensions

Unit: mm

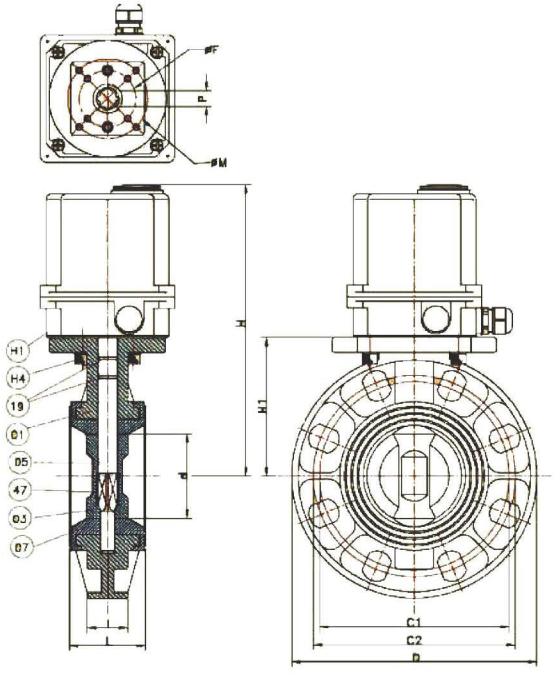
Nom. Size	d1				d2				L	H	M	F	P
	ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS					
DN15 (1/2")	21.54	20.30	22.30	22.40	21.23	20.10	21.70	21.9	110.2	228.8	50	36	9
DN20 (3/4")	26.87	25.30	26.30	26.40	26.57	25.10	25.70	25.9	120.2	239.8	50	36	9
DN25 (1")	33.65	32.30	32.33	34.50	33.27	32.10	31.67	33.9	138.5	272.0	50	36	11
DN32 (1-1/4")	42.42	40.30	38.43	42.50	42.04	40.10	37.57	41.9	162.8	281.8	50	36	11
DN40 (1-1/2")	48.56	50.30	46.46	48.60	48.11	50.10	47.54	47.9	170.0	289.5	50	36	11
DN50 (2")	60.63	63.30	60.56	60.60	60.17	63.10	59.44	59.9	205.0	320.0	50	36	11
DN65 (21/2")	73.38	75.30	76.60	76.70	72.85	74.80	75.87	75.90	234.00	315.0	50	36	14
DN80 (3")	89.31	90.40	89.60	89.80	88.70	89.80	88.83	88.90	258.50	350.0	50	36	14
DN100 (4")	114.76	110.40	114.70	115.00	114.07	109.80	113.98	113.80	309.00	390.0	-	70	17

ELECTRIC ACTUATOR BUTTERFLY VALVE

Size : 2" - 8"
Joint End : Flanged End (ANSI/CNS/DNS/JIS)
Working Pressure : 150 PSI



SIZE	Specification				Speed(sec.)		Output Torque (kgf/cm)		
	POWER	AC110V	AC220V	DA24V	AC	DC	AC110	AC220V	DC24V
2" - 2-1/2"	10W	0.6A	0.3A	0.1A	10	15	350	362	400
UM-1	15W	0.7A	0.4A	N/A	10	N/A	430	432	N/A
3"-4"	15W	1.2A	0.4A	N/A	12	N/A	500	500	N/A
UM2	10W	N/A	N/A	N/A	N/A	16	N/A	N/A	700
5"-6"	25W	0.8A	0.6A	N/A	8	N/A	1486	1562	N/A
UM3	30W	N/A		0.3A	N/A	8	N/A	N/A	1500
8"	25W	0.8A	0.6A	N/A	20	N/A	2500	2500	N/A
UM-4	30W	N/A		0.3A	N/A	20	N/A		2500



Specification of material

NO.	PART	MATERIAL	Q'TY
01	BODY	PVC	1
03	DISC	PVC	1
05	VALVE STEM	SS304/ SS316	1
07	SEAT	EPDM/ VITON	1
19	STEM O-RING	EPDM/ VITON	2
H1	ELECTRIC ACTUATORS	NYLON	1
H4	BOLT	SS304	4

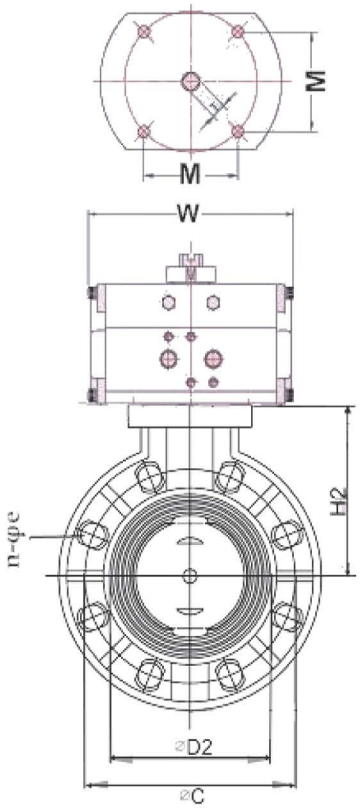
Dimensions

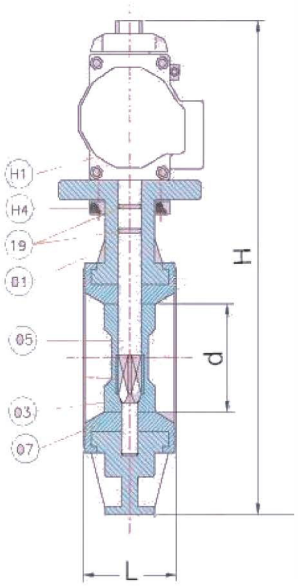
Unit: mm

Nom. Size	d	D2	C	n- φ e		L	H	H2	P	Operating torque	
				JIS	DIN/ANSI					(FT*LB)	(N*M)
2"	54	85.8	123	4-20		44.5	244.0	99.0	14	25	34
2-1/2"	67	104.5	143	4-21		48.0	253.0	108.0	14	25	34
3"	83	119.5	157	8-21		53.0	271.0	126.0	14	25	34
4"	101	141.0	186	8-21		57.0	311.5	139.5	14	25	34
5"	127	171.5	213	8-24		68.0	313.0	141.0	17	40	54
6"	152	197.0	240	8-24		73.0	428.5	184.5	17	40	54
8"	200	249.0	296	12-24	8-24	92.0	472.0	228.0	22	40	54

PNEUMATIC ACTUATOR BUTTERFLY VALVE

Size : 2" - 8"
Joint End : Flanged End (ANSI/CNS/DNS/JIS)
Max Oper Pressure : 120 PSI
Lowest Air Pressure : 60 Psi
Working Pressure : 150 PSI







Specification of material

NO.	PART	MATERIAL	Q'TY
01	BODY	UPVC/CPVC/PP	1
03	DISC	UPVC/CPVC/PP	1
05	VALVE STEM	SS304/ SS306	1
07	SEAT	EPDM/ VTION	1
19	STEM O-RING	EPDM/ VITON	2
H1	PNEUMATIC ACTUATOR	ALUMINUM	1
H4	BOLT	SS304	4

Dimensions

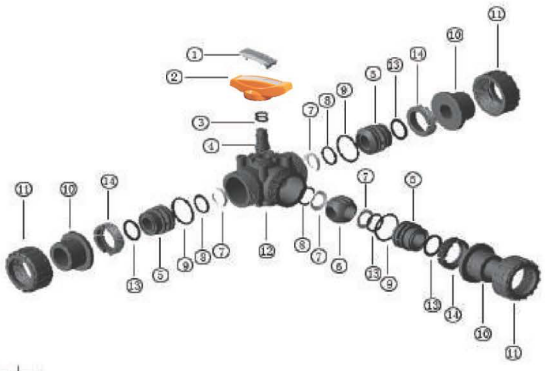
Unit: mm

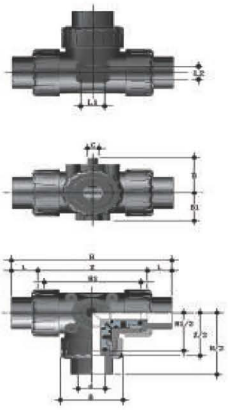
Nom. Size	d	D2	C	n- φ e		L	H	H2	F	W		T	Operating torque	
				JIS	DIN/ANSI					DA	SR		(FT*LB)	(N*M)
2"	54	85.8	123	4-20		44.5	287	99.0	108	145	169	14	25	34
2-1/2"	67	104.5	143	4-21		48.0	307	108.0	108	169	201	14	25	34
3"	83	119.5	157	8-21		53.0	331	126.0	108	169	201	14	25	34
4"	101	141.0	186	8-21		57.0	358	139.5	108	169	201	14	25	34
5"	127	171.5	213	8-24		68.0	427	141.0	128	209	242	17	40	54
6"	152	197.0	240	8-24		73.0	458	184.5	128	209	242	17	40	54
8"	200	249.0	296	12-24	8-24	200	553	228.0	153	242	275	22	40	54

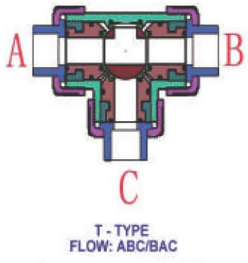
3 WAY TRUE UNION BALL VALVE

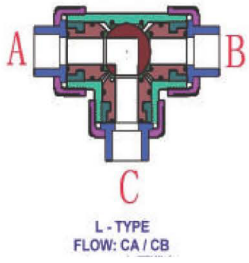
Size : 1/2" - 2"
Joint End : Socket (ANSI/CNS/DNS/JIS)
: Threaded (PT/NPT/BSPF)
Working Pressure : 150 PSI











Specification of material

NO.	PART	MATERIAL	Q'TY
1	Cap	UPVC/CPVC/PP	1
2	Handle	UPVC/CPVC/PP	1
3	O-ring	EPDM/ VITON	2
4	Stem	UPVC/CPVC/PP	1
5	Seal Carrier	UPVC/CPVC/PP	3
6	Ball	UPVC/CPVC/PP	1
7	Seat Seal	PTFE	4
8	O-ring	EPDM/ VITON	4
9	O-ring	EPDM/ VITON	3
10	End Connector	UPVC/CPVC/PP	3
11	Union Nut	UPVC/CPVC/PP	3
12	Body	UPVC/CPVC/PP	1
13	O-ring	EPDM/ VITON	3
14	Snap ring	UPVC/CPVC/PP	3

Dimensions

Unit: mm

Nom. Size	D	L	H1	H2	L1	L2	L3	W	I	F	E
DN15 (1/2")	53.8	110.2	49.3	27.5	21.8	68.0	55.8	75.0	M6	31.0	69.0
DN20 (3/4")	64.8	120.2	63.0	33.5	25.4	70.5	59.6	92.0	M6	33.0	69.0
DN25 (1")	76.0	138.5	73.0	39.0	27.8	83.5	73.5	93.8	M6	40.0	82.2
DN32 (1-1/4")	85.8	162.8	86.0	43.5	32.0	92.0	82.0	110.0	M8	45.0	82.2
DN40 (1-1/2")	91.5	170.0	95.5	48.0	28.0	98.0	87.0	115.0	M8	52.0	117.0
DN50 (2")	122.0	205.0	113.0	62.0	38.0	126.0	115.0	146.0	M8	70.0	117.0

Nom. SIZE	d				B	B1	C	H	H1	Z	L	H1/2	Z/2	H/2	L1	L2	OPerating torque
	ANSI	DIN	JIS	CNS													(N.M)
DN15 (1/2")	21.54	20.30	22.30	22.40	51	38.5	69	163	109	119	22.5	54.5	59.5	81.5	26	18	3.5
DN20 (3/4")	26.87	25.30	26.30	26.40	51	38.5	69	172	109	123	24.5	54.5	61.5	86	26	18	
DN25 (1")	33.65	32.30	32.33	34.50	58	46	82	200	130	144	28	65	72	100	26	18	4.5
DN32 (1-1/4")	42.42	40.30	38.43	42.50	58	46	82	208	130	144	32	65	72	104	26	18	
DN40 (1-1/2")	48.56	50.30	48.46	48.60													5.5
DN50 (2")	60.63	63.30	60.56	60.60													

UNION & GASKET

Union

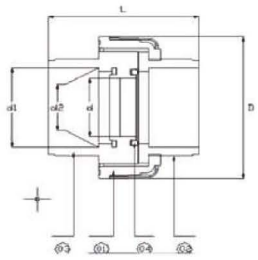
Size : 1/2″ - 4″

Joint End : Socket (ANSI/CNS/DNS/JIS)

: Threaded (PT/NPT/BSPF)

Working Pressure : 150 PSI





Specification of material

NO.	PART	MATERIAL	Q'TY
1	UNION NUT	UPVC/CPVC/PP	1
2	UNION END	UPVC/CPVC/PP	1
3	BODY	UPVC/CPVC/PP	1
4	ORING	EPDM/VITON	1

Dimensions

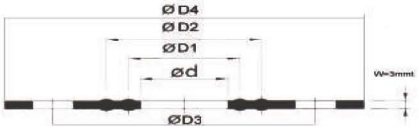
Unit: mm

Nom. SIZE	d	d 1				d 2				D	L
		ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS		
DN15(1/2")	15	21.54	20.30	22.30	22.40	21.23	20.10	21.70	21.9	53.8	59
DN20(3/4")	20	26.87	25.30	26.30	26.40	26.57	25.10	25.70	25.9	64.8	63.3
DN25(1")	25	33.65	32.30	32.33	34.50	33.27	32.10	31.67	33.9	76	72.8
DN32(1-1/4")	32	42.42	40.30	38.43	42.50	42.04	40.10	37.57	41.9	85.8	78.5
DN40(1-1/2")	40	48.56	50.30	48.46	48.60	48.11	50.10	47.54	47.9	91.5	88
DN50(2")	50	60.63	63.30	60.56	60.60	60.17	63.10	59.44	59.9	122	99
DN65(2-1/2")	63	73.38	75.30	76.60	76.70	72.85	75.10	75.87	75.9		
DN80(3")	75	89.31	90.40	89.60	89.70	88.70	90.10	88.83	88.9		
DN100(4")	97	114.76	110.4	114.7	115.0	114.1	110.10	113.98	113.8		

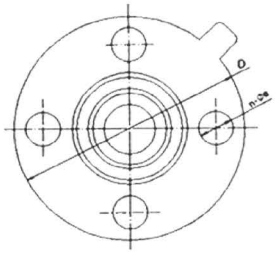
Gasket EPDM/VITON/PTFE+EPDM

Size : 1/2″ - 12″

Joint End : Flange End (ANSI/CNS/DNS/JIS)







JIS 10K

Unit: mm

Nom. Size	D1	D2	D3	D4	d1	n-Øe
1/2"	26	41	70	93	18	4-15
3/4"	32	47	75	98	22	4-15
1"	38	53	60	123	30	4-19
1-1/4"	50	65	100	133	37	4-19
1-1/2"	54	69	105	138	43	4-19
2"	68	83	120	153	54	4-19
2-1/2"	86	101	140	173	69	4-19
3"	98	112	150	183	80	8-19
4"	120	138	175	208	102	8-19
5"	145	166	210	248	127	8-23
6"	168	190	240	278	150	8-23
8"	216	190	240	278	150	8-23
10"	270	306	355	398	249	12-25
12"	324	352	400	443	300	16-25

ANSI#150LB

Unit: mm

Nom. Size	D1	D2	D3	D4	d1	n-Øe
1/2"	25.40	40.64	60.45	86.36	17.78	4-16
3/4"	33.02	48.26	70.10	96.52	22.86	4-16
1"	38.10	53.34	79.50	106.7	30.48	4-16
1-1/4"	50.80	66.04	88.90	114.3	38.10	4-16
1-1/2"	53.34	68.55	98.55	124.4	43.18	4-16
2"	68.58	83.82	120.7	149.9	53.34	4-19
2-1/2"	86.36	101.6	139.7	175.2	68.58	4-19
3"	99.06	111.8	152.4	187.9	81.28	4-19
4"	119.4	137.2	190.5	226.1	101.6	8-19
6"	167.6	190.5	241.3	276.9	148.9	8-22
8"	215.9	246.4	298.5	340.4	198.1	8-22
10"	269.2	307.3	361.9	403.9	249.9	12-25
12"	325.2	353.1	431.8	480.1	299.7	12-25

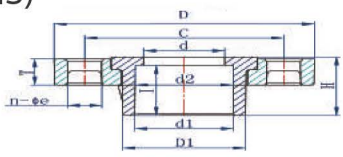
TS FLANGE & BLIND FLANGE

TS Flange

Size : 1/2" - 4"

Joint End : Flanged End (ANSI/CNS/DNS/JIS)

Working Pressure : 150 PSI





Dimensions

Unit: mm

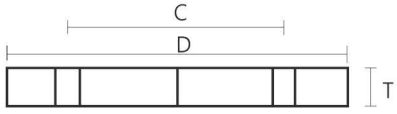
Nom. SIZE	FLANGE D	d	d1	C	H	T	n-Øe	APPROX. WE. (g)
1/2"	94.5	15.0	21.54	70.0	28.5	15.0	4-15	112
3/4"	104	21.5	26.87	73.0	30.0	15.5	4-15	148
1"	118	25.0	33.65	85.0	33.5	16.0	4-16	190
11/4"	139	32.0	42.42	100.0	38.5	16.5	4-16	275
11/2"	150	40.5	48.56	105.0	42.0	18.0	4-19	360
2"	165	50.0	60.63	125.0	46.5	20.0	4-19	485
21/2"	185	65.2	73.38	142.2	53.0	22.0	4-19	668
3"	202	80.5	89.31	157.0	56.25	22.8	8-19	785
4"	230	108.0	114.76	185.0	67.0	23.5	8-19	1050
6"	288	150.0	168.83	242.0	86.0	26.0	8-23	1865

Blind Flange

Size : 1/2" - 4"

Joint End : Flanged End (ANSI/CNS/DNS/JIS)

Working Pressure : 150 PSI





Dimensions

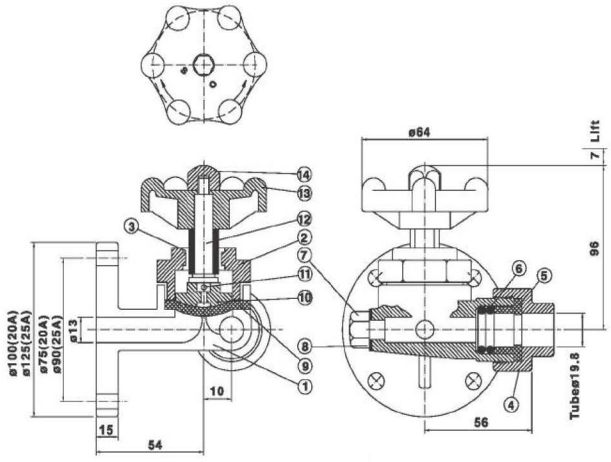
Unit: mm

Nom. SIZE	ΦD	ΦC	T	n-Φe	Approx.Wt. (g)
1/2"	94.5	70.0	14.0	4-15	112
3/4"	104	73.0	15.0	4-15	148
1"	118	85.0	16.0	4-16	210
11/4"	139	100.0	16.0	4-16	310
11/2"	150	105.0	17.5	4-19	400
2"	165	125.0	19.5	4-19	540
21/2"	185	142.2	21.0	4-19	770
3"	202	157.0	21.5	8-19	860
4"	230	185.0	22.0	8-19	1120
6"	288	242	29.0	8-23	1990

GAUGE VALVE

Size : 3/4"
Joint End : Socket (ANSI/CNS/DNS/JIS)
: Threaded (PT/NPT/BSPF)
Working Pressure : 150 PSI





Specification of material

NO	PART	MATERIAL	QTY
1	BODY	UPVC	1
2	BONNET	UPVC	1
3	INSERTED	BRASS	1
4	TUBE HOLDER	UPVC	1
5	O-RING HOLDER	UPVC	1
6	TUBE O-RING	EPDM/VITON	1
7	LEAKING HOLE	UPVC	1
8	LEAKING O-RING	EPDM/VITON	1
9	DIAPHRAGM	EPDM/VITON	1
10	COMPRESSOR	BRASS	1
11	SET PIN	SUS304	1
12	STEM	BRASS	1
13	HANDLE	ABS	1
14	HANDLE HOLDER	UPVC	1

Dimensions

Unit: mm

Size \ Nom.		NOMINAL SIZE	OUTER DIAMETER OF TUBE
3/4"	DN20	14	20

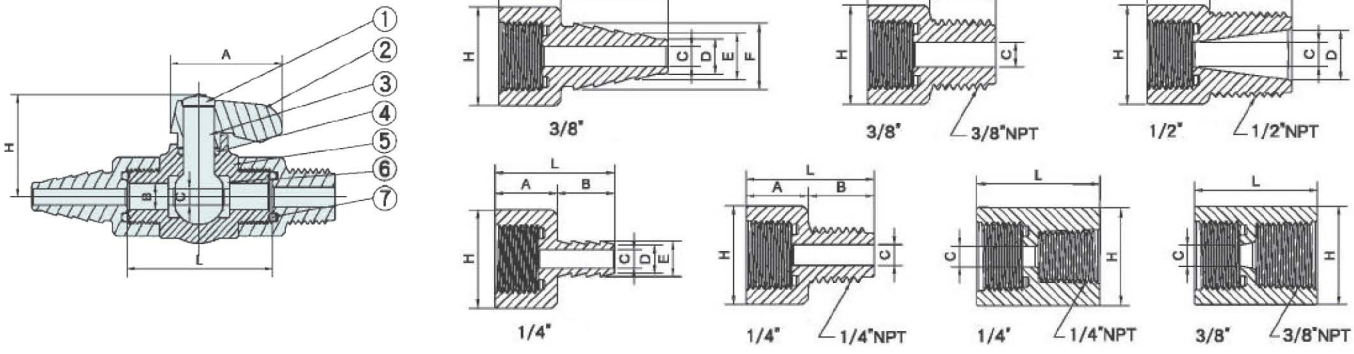
LAB COCK

Size : 1/4" - 3/8"
Joint End : Female x Hose , Hose x Hose
Working Pressure : 150 PSI



Specification of material

NO	PART	MATERIAL	QTY
1	CAP	UPVC	1
2	HANDLE	ABS	1
3	BALL	UPVC	1
4	O-RING	EPDM	1
5	BODY	UPVC	1
6	SEAT	EPDM	2
7	CARRIER O-RING	EPDM	1



Dimensions

Unit: mm

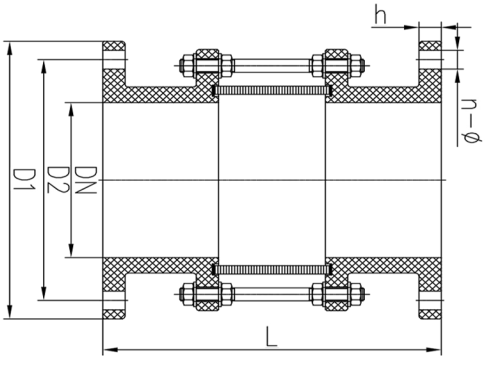
Size \ Nom.		L	H	A	B	C	D	E	F
1/4"	HOSE	37.68	25.04	29.04	6.4	4			
3/8"	HOSE	41.2	24	15.2	26	5	8.5	11.35	11.65
3/8"	MPT	31.2	24	15.2	16	6			
1/2"	MPT	35.24	24	15.2	20.04	5.95	12.1		
1/4"	FPT	29.19	24	15.2	26	4.5	6.95	8.65	
1/4"	MPT	31.2	24	15.2	16	5			
1/4"	FPT	30	24			5			
3/8"	FPT	30	24			5.11			

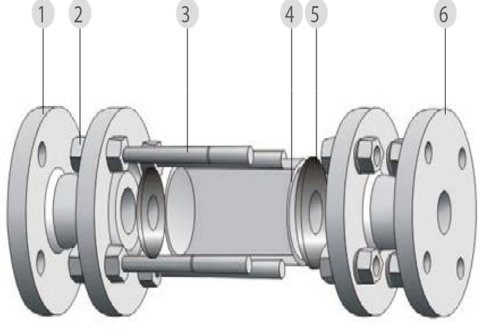
SIGHT GLASS , UPVC , FLANGE STANDARD



PART MATERIAL TABLE

No.	Name	Material
1	Base	FRPP,PVDF,CPVC,UPVC,PPH
2	Hex nuts	SUS304/316
3	Double headed stud	SUS304/316
4	Glass	Glass
5	Washers	EPDM,FPM
6	Base	FRPP,PVDF,CPVC,UPVC,PPH





Sight Glass Assembly Detail Drawing

DIMENSION LIST

DN (mm)	D1	D2			L	h	n-Φ		
		GB	JIS	ANSI			GB	JIS	ANSI
25(1/2")	115	85	100	3.13	238	15	4-Φ14	4-Φ19	4-Φ16
32 (1 1/4")	150	100	100	3.45	230	16	4-Φ18	4-Φ19	4-Φ16
40 (1 1/2")	150	110	105	3.88	230	16	4-Φ18	4-Φ19	4-Φ16
50 (2")	165	125	120	4.74	233	17	4-Φ18	4-Φ19	4-Φ19
65 (2 1/2")	195	145	140	5.49	277	20	4-Φ18	4-Φ19	4-Φ19
80 (3")	195	160	150	6	277	20	8-Φ18	4-Φ19	4-Φ19
100 (4")	215	180	175	7.5	310	21	8-Φ18	8-Φ19	8-Φ19
125 (5")	250	210	210	8.5	350	26	8-Φ18	8-Φ23	8-Φ22
150 (6")	285	240	240	9.51	385	27	8-Φ23	8-Φ23	8-Φ22
200 (8")	340	295	290	11.75	400	25	8-Φ23	12-Φ23	8-Φ22