



VISHAL
INDUSTRIES

Manufacturers of Thermoplastic Valves, Fittings and Pumps

For 50 years, Vishal Industries has served as a well-known and well-established manufacturing company. Established in 1972, Vishal Industries is a name you can trust; a reliable manufacturer of various thermoplastic products for industries like Chemicals, Electroplating, Cement, Steel, Effluent and Sewage Treatment Plants, etc. We come with a reputation for providing transparent platforms to deliver high-quality products. Our corporate clientele includes companies like Reliance Industries, Tata Projects, Tata Steel, Grauer and Weil, Thermax and Ion Exchange. Since inception, the company has grown consistently in business and as a team. The head office is in Goregaon, Mumbai and the manufacturing Unit is in Vasai. Over the years, our manufactured products range from valves, pipe fittings and pumps in PP, PVC and PVDF. While being dedicated to catering to our customers with the utmost diligence, we deliver high standards of workmanship with a stringent budget. Our aim is to enable the small and medium scale industries of India to not only survive but also thrive and achieve substantial growth.

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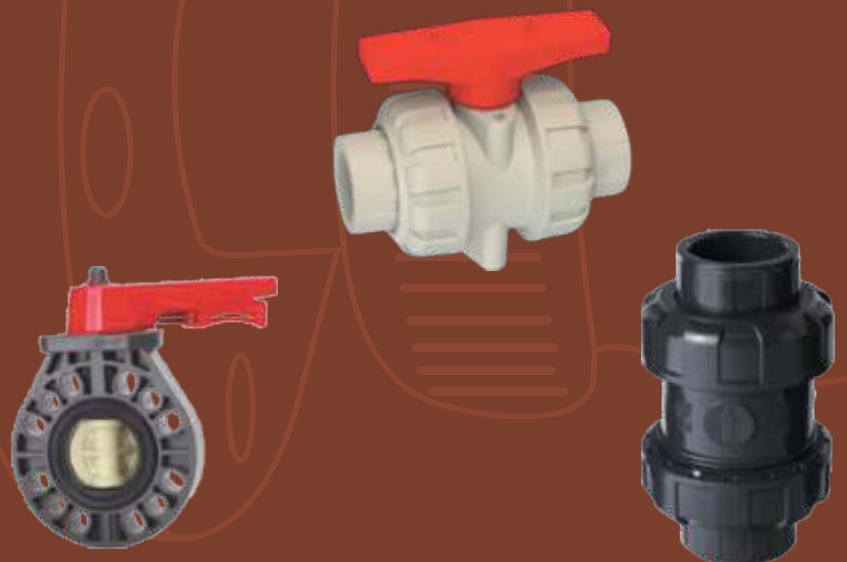
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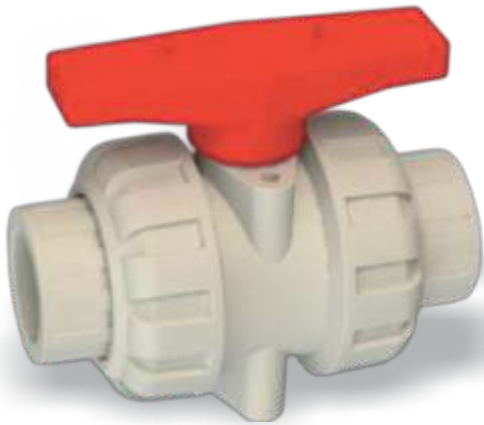


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VALVES



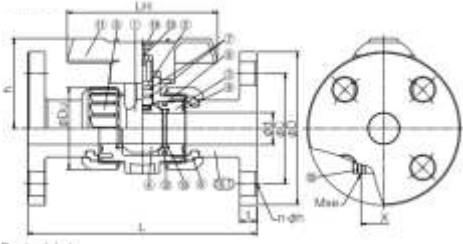
TRUE UNION BALL VALVE



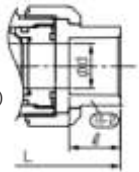
VM Series

- * Easy maintenance with ball stopper mechanism at closed position, which hold the ball back from popping out when the union nut is loosened
- * Controllable sealing performance by tightening the union nut
- * No pressure loss because of the full-port same inner diameter as that of pipe
- * Keep water quality because of no stasis design in flow path
- * It's possible to install an actuator on to the valve body directly

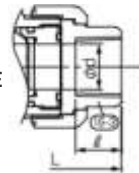
● FLANGE TYPE



● SOCKET TYPE (PVC, HT, CPVC, PP)



● THREAD TYPE (PVC, PVDF)



Parts List

No.	Part Name	Q'ty	Material	No.	Part Name	Q'ty	Material
1	Body	1	● U-PVC	14	Handle Cap	1	ABS
2	Stem	1	● C-PVC	15	Insert Nut	2	C3604
3	Ball Holder	1	● PPH	16	Flange	2	● U-PVC ● C-PVC ● PPH ● PVDF
4	Ball	1	● PVDF				
5	Union Nut	2					
6	Set Ring	2					
7	Stem O-ring	2		17	TS Socket	2	● U-PVC ● PPH ● C-PVC
8	Ball Holder O-ring	1	● EPDM				
9	Union O-ring	2	● FKM	18	Threaded	2	● U-PVC ● PVDF
10	Ball Seat O-ring	2					
11	Handle	1	ABS	19	Butt Spigot Type	2	● U-PVC ● PVDF ● PE
12	Ball Seat	2	PTFE				
13	Screw	1	SUS304				

Liquid Temp Tables & Maximum Working Pressure

Material	Usable Temperature (°C)	Max. Working Pressure at room Temp(bar)
U-PVC	0~50	10
C-PVC	0~90	10
PPH	0~80	10
PVDF	0~100	10

Flange Type

SIZE		d	L	h	LH	Du	Insert Nut		Flange (Table D)				Flange (ASA 150)				Flange (DIN)			
A	B						X	MxE	D	C	nh	t	D	C	nh	t	D	C	nh	t
15	½	15	138	50	85	54	31	5x2	95	67	4-14	16	89	60	4-16	16	95	65	4-14	16
20	¾	20	147	55	90	63	33	5x2	102	73	4-14	16	98	70	4-16	16	105	75	4-14	16
25	1	25	162	64	106	74	40	5x2	114	83	4-14	18	108	79	4-16	18	115	85	4-14	18
32	1 ¼	32	181	75	116	85	52	6x2	121	87	4-14	19	118	90	4-16	19	140	100	4-18	19
40	1 ½	40	195	88	128	98	52	7x2	133	98	4-14	19	127	98	4-16	19	150	110	4-18	19
50	2	50	219	104	140	118	71	7x2	152	114	4-16	20	152	121	4-18	20	165	125	4-18	20
65	2 ½	65	263	146	205	150	84	8x4	165	127	4-16	22	178	140	4-18	22	185	145	4-18	22
80	3	80	304	152	205	169	84	8x4	184	146	4-16	22	190	152	4-18	22	200	160	8-18	22
100	4	100	358	181	248	210	121	10x4	216	178	8-16	24	229	190	8-18	24	220	180	8-18	24

Thread, Socket And Socket Fusion Type

A	B	d	L	h	LH	Du	Female Thread		Socket		Socket Fusion	
							Size	l	L	l	Taper	l
15	½	15	106	50	85	54	Rc ½	22	106	22	1/37	22
20	¾	20	115	55	90	63	Rc ¾	24	115	24	1/42	24
25	1	25	127	64	106	74	Rc 1	26	127	26	1/43	26
32	1 ¼	32	143	75	116	85	Rc 1 ¼	29	143	29	1/37	29
40	1 ½	40	157	88	128	98	Rc 1 ½	33	157	33	1/38	33
50	2	50	172	104	140	118	Rc 2	36	172	36	1/34	36
65	2 ½	65	240	146	205	150	Rc 2 ½	46	240	46	1/48	46
80	3	80	266	152	205	169	Rc 3	50	266	50	1/49	50
100	4	100	316	181	248	210	Rc 4	60	316	60	1/56	60

TRUE UNION BALL VALVE



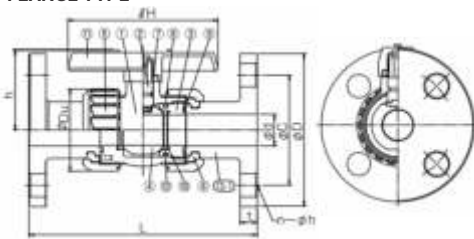
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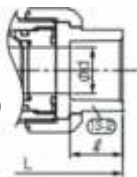
AM Series

- * Easy maintenance with ball stopper mechanism at closed position, which hold the ball back from popping out when the union nut is loosened
- * Controllable sealing performance by tightening the union nut
- * No pressure loss because of the full-port same inner diameter as that of pipe
- * Keep water quality because of no stasis design in flow path

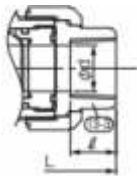
● FLANGE TYPE



● SOCKET TYPE (PVC, HT, CPVC, PP)



● THREAD TYPE (PVC, PVDF)



Parts List

No.	Part Name	Q'ty	Material	No.	Part Name	Q'ty	Material
1	Body	1	● U-PVC	13-1	Flange	2	● U-PVC ● C-PVC ● PPH ● PVDF
2	Stem	1	● C-PVC				
3	Ball Holder	1	● PPH				
4	Ball	1	● PVDF				
5	Union Nut	2					
6	Set Ring	2		13-2	TS Socket	2	● U-PVC ● PPH ● C-PVC
7	Stem O-ring	2					
8	Ball Holder O-ring	3	● EPDM	13-3	Threaded	2	● U-PVC ● PVDF
9	Union O-ring	2	● FKM				
10	Ball Seat O-ring	2		13-4	Butt Spigot Type	2	● U-PVC ● PVDF ● PE
11	Handle	1	● ABS				
12	Ball Seat	2	● PTFE	13-5	Socket Welding	2	● PPH

Liquid Temp Tables & Maximum Working Pressure

Material	Usable Temperature (°C)	Max. Working Pressure at room Temp(bar)
U-PVC	0~50	10
C-PVC	0~90	10
PPH	0~80	10
PVDF	0~100	10

Flange Type

SIZE		d	L	h	LH	Du	Flange (Table D)				Flange (ASA 150)				Flange (DIN)			
A	B						D	C	nh	t	D	C	nh	t	D	C	nh	t
15	½	15	126	48	72	45	95	67	4-14	16	89	60	4-16	16	95	65	4-14	16
20	¾	20	148	53	72	55	102	73	4-14	16	98	70	4-16	16	105	75	4-14	16
25	1	25	172	72	105	71	114	83	4-14	18	108	79	4-16	18	115	85	4-14	18
40	1 ½	40	212	104	145	104	133	98	4-14	19	127	98	4-16	19	150	110	4-18	19
50	2	50	220	137	175	111	152	114	4-16	20	152	121	4-18	20	165	125	4-18	20
65	2 ½	65	251	145	175	142	165	127	4-16	22	178	140	4-18	22	185	145	4-18	22
80	3	80	315	177	281	182	184	146	4-16	22	190	152	4-18	22	200	160	8-18	22
100	4	100	370	193	320	222	216	178	8-16	24	229	190	8-18	24	220	180	8-18	24

Thread, Socket And Socket Fusion Type

A	B	d	L	h	LH	Du	Female Thread		Socket		Socket Fusion	
							Size	l	L	l	Taper	l
15	½	15	102	48	72	45	Rc ½	22	106	22	1/37	22
20	¾	20	118	53	72	55	Rc ¾	24	115	24	1/42	24
25	1	25	131	72	105	71	Rc 1	26	127	41	1/43	26
40	1 ½	40	214	104	145	104	Rc 1 ½	53	157	53	1/38	33
50	2	50	218	137	175	111	Rc 2	36	172	75	1/34	36
65	2 ½	65	247	145	175	142	Rc 2 ½	46	240	46	1/48	46

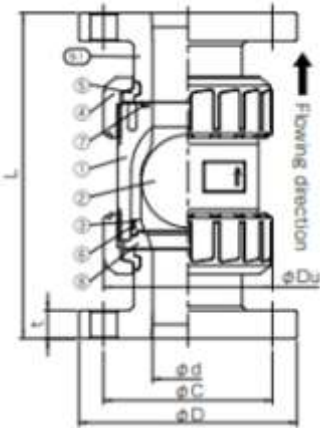
BALL CHECK VALVE



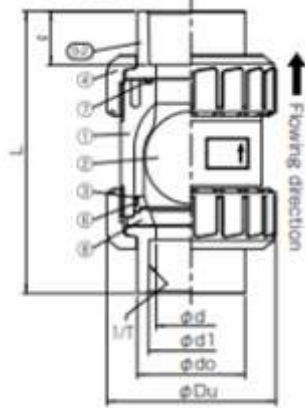
FEATURES

- * Low pressure loss and reliable checking performance even with small differential pressure.
- * Superior corrosion & chemical resistance as all plastic component for contact parts with medium.
- * Easy maintenance by detaching union nut.
- * Able to dismantle the valves from the connected pipe by screwed off the both side of union nut.

● FLANGE



● TS SOCKET



Parts List

No.	Part Name	Q'ty	Material
1	Body	1	● U-PVC
2	Ball	1	● C-PVC
3	Seat Carrier	1	● PPH
4	Union Nut	2	● PVDF
5	Seat Ring	2	
6	Seat Carrier O-Ring	1	● EPDM
7	Union O-ring	1	● FKM
8	Seat	1	
9-1	Flange	2	● U-PVC ● C-PVC
9-2	Socket	2	● PPH ● PVDF

Liquid Temp Tables & Maximum Working Pressure

Material	Usable Temperature (°C)	Max. Working Pressure at room Temp(bar)
U-PVC	0~50	10
C-PVC	0~90	10
PPH	0~80	10
PVDF	0~100	10

Flange And Socket Type

SIZE		d	Du	Flange (Table D)					SOCKET (DIN)				
A	B			D	C	nh	t	L	do	d1	1/T	I	L
15	½	15	45	95	65	4-14	16	135	30	20	1/37	22	84
20	¾	20	55	105	75	4-14	16	160	35	25	1/42	24	96
25	1	25	71	115	85	4-14	18	170	44	32	1/43	26	103
32	1 ½	32	104	121	87	4-14	19	177	54	40	1/37	29	124
40	1 ½	40	104	150	110	4-14	19	205	66	50	1/38	33	155
50	2	50	111	165	125	4-16	20	230	77	63	1/34	36	186
65	2 ½	65	142	185	145	4-16	22	370	92	75	1/48	46	218
80	3	80	182	200	160	4-16	22	425	107	90	1/49	50	243
100	4	100	222	220	180	8-16	24	580	130	110	1/56	60	344

FOOT VALVE



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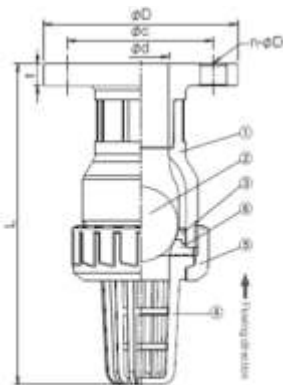
FEATURES

- * Low pressure loss and reliable checking performance even with small differential pressure.
- * Superior corrosion & chemical resistance as all plastic component for contact parts with medium.
- * Easy maintenance by detaching union nut.

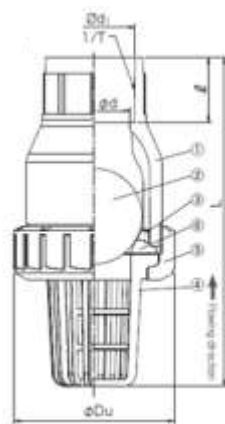
Parts List

No.	Part Name	Q'ty	Material / Color
1	Body	1	● U-PVC
2	Ball	1	● C-PVC
3	Ring	1	● PPH
4	Screen	1	● PVDF
5	Union Nut	1	
6	Seat	1	● EPDM ● FKM

● FLANGE



● TS SOCKET



Liquid Temp Tables & Maximum Working Pressure

Material	Usable Temperature (°C)	Max. Working Pressure at room Temp(bar)
U-PVC	0~50	10
C-PVC	0~90	10
PPH	0~80	10
PVDF	0~100	10

Flange And Socket Type

SIZE		d	Du	Flange					TS SOCKET		
A	B			L	D	C	nh	t	L	d1	1/T
15	½	16	49	145	89	60.3	4-16	11.5	104	20.3	16
20	¾	20	59	170	99	69	4-16	13	121	25.3	19
25	1	25	67	183	108	79.5	4-16	14.5	133	32.3	22
32	1 ½	32	98	-	-	-	-	-	201	40.3	26
40	1 ½	40	98	246	128	98.4	4-16	19	194	50.3	31
50	2	50	120	279	152	120.6	4-19	19.5	228	63.3	38
65	2 ½	65	150	344	177	139.5	4-19	22.5	272	75.3	44
80	3	78	150	401	193	152.4	4-19	27.1	297	90.3	51
100	4	102	228	524	230	190.5	8-19	29.3	428	110.4	61

SWING CHECK VALVE

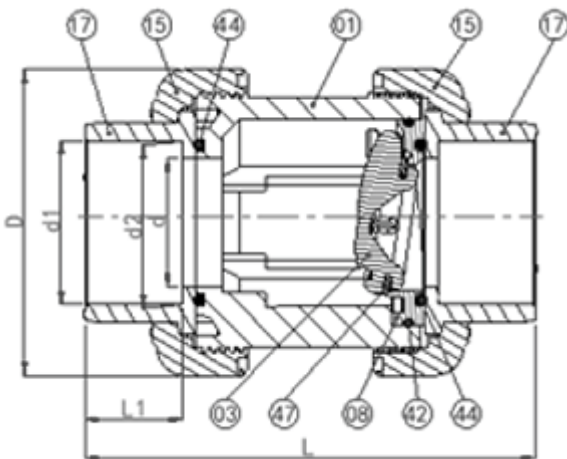


FEATURES

- * Efficient swing design with complete leakproof structure
- * Can be assembled vertically or horizontally
- * The material has been modified by nanometer, improving the pressure resistance and impact resistance
- * Minimum water stop pressure $\geq 0.03\text{kg}$

Parts List

No.	Part Name	Q'ty	Material
01	Body	1	
03	Disc	1	● PPH
08	Base	1	● U-PVC ● C-PVC
15	Nut	2	● PVDF
17	Socket	2	
42	O-Ring	1	● EPDM
44	O-Ring	2	● FKM
47	Washer	1	



Liquid Temp Tables & Maximum Working Pressure

Material	Usable Temperature (°C)	Max. Working Pressure at room Temp(bar)
U-PVC	0~50	10
C-PVC	0~90	10
PPH	0~80	10
PVDF	0~100	10

Flange And Socket Type

SIZE		d	D	Flange (Table D)					SOCKET (DIN)			
A	B			D	C	nh	t	L	d1	d2	I	L
15	½	15	45	95	65	4-14	16	135	20.3	20	22.3	87.6
20	¾	20	55	105	75	4-14	16	160	25.3	25	25.5	103.5
25	1	25	71	115	85	4-14	18	170	32.3	32	28.6	120.6
32	1¼	32	85	121	87	4-14	19	177	40.3	40	32	135
40	1½	40	104	150	110	4-14	19	205	50.3	50	35	144
50	2	50	111	165	125	4-16	20	230	63.3	63	38	163
65	2½	65	142	185	145	4-16	22	370	75.3	75	46	218
80	3	80	182	200	160	4-16	22	425	90.3	90	50	243
100	4	100	211	220	180	8-16	24	580	110.3	110	60	344

BUTTERFLY VALVE



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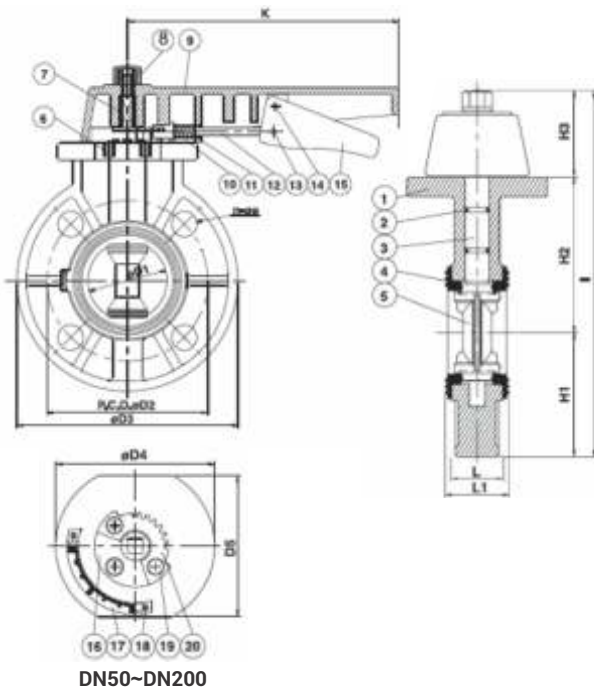


FEATURES

- * Corrosion resistance
- * Excellent flow characteristics
- * Compact and lightweight designs in an energy-saving and cost-efficient Butterfly Valve
- * With clear indication of disc opening degree
- * Ideally suited for flow control in a minimum piping space

Parts List

No.	Part Name	Q'ty	Material	No.	Part Name	Q'ty	Material
1	Body	1	UPVC, PP, CPVC, PVDF	11	Spring	1	SUS 304
2	Stem O'ring	2	EPDM, VITON	12	Lever	1	SUS 304
3	Stem	1	SUS 410, SUS 316	13	Setpin(Short)	1	SUS304
4	Seat	1	EPDM, VITON, NBR	14	Setpin(Long)	1	SUS 304
5	Disc	1	UPVC, PP, CPVC, PVDF	15	Lever	1	ABS
6	Bolt	1	BRASS, SUS 304	16	Positioner	1	UPVC
7	Handle Insert	1	FC 0208	17	Indicator	1	SUS 304
8	Stem Bolt	1	UPVC, BRASS	18	Bolt	2	SUS 304
9	Handle	1	PP, PVC	19	Bol	3	SUS304
10	Handle Cap	1	PP, PVC	20	Teeth Plate	1	SUS304



Liquid Temp Tables & Maximum Working Pressure

Material	Usable Temperature (°C)	Max. Working Pressure at room Temp(bar)
U-PVC	0~50	10
GF-PP	0~80	10

SIZE		D1	D2	D3	n	L	L1	D4	H1	H2	H3	I	K	D5	Test Press (bar)		Working Press	
A	B														Body	Seat	Bar	
40	1½	44	110	149	4	36.1	43.5	105	73	98	63	234	202	93	15	12	15	10
50	2	55	125	164	4	36.1	43.5	105	82.0	107	63	252	202	93	15	12	15	10
65	2½	69.6	145	185	4	40	46.4	128	92	115	63	270	202	95.5	15	12	15	10
80	3	78	160	196	8	40	47.4	127	98	123	63	284	202	95	15	12	15	10
100	4	100	180	225	8	48	52.4	134	112.5	139.5	68	320	253	100	15	12	15	10
125	5	128	210	254	8	51.2	58.8	196.5	127	160	86	373	297	100.8	15	12	15	10
150	6	152	240	286	8	51	57	170	143	178	86	407	297	101	15	12	15	10
200	8	200	295	344	8	61	67.5	191	172	212	86	470	297	110	15	10	15	10



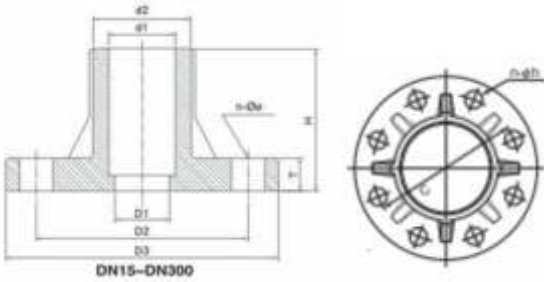
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PIPE FITTING



FEATURES

- * The pipe fittings are specialized for chemicals, achieving an optimal composition that is highly resistant against corrosion and impact
- * They can withstand the working pressure of 10 bar
- * They are available in U-PVC, C-PVC, PPH and PVDF

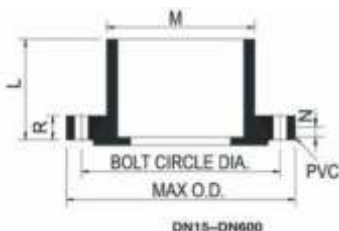
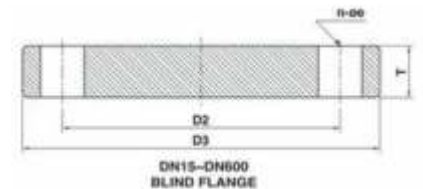


OPEN TYPE

SIZE		d1	d2	D1	D2			D3	H	T	n-h
A	B				Table D	ASA 150	DIN				
15	½	20.3	31.0	15	67	60	65	95	34	13	4-14
20	¾	25.3	35.5	20	73	70	75	105	41	14	4-14
25	1	32.3	42.3	25	83	79	85	115	43	15	4-14
40	1 ½	50.3	62.0	40	98	98	110	150	59	16	4-14
50	2	63.3	75.0	50	114	121	125	165	66	18	4-16
65	2 ½	75.3	90.5	65	127	140	145	185	67	20	4-16
80	3	90.4	105.6	80	146	152	160	200	75	20	4-16
100	4	110.4	124.0	100	178	190	180	220	77	22	4-16

BLIND TYPE

SIZE		D2			D3	T	n-h
A	B	Table D	ASA 150	DIN			
15	½	67	60	65	95	13	4-14
20	¾	73	70	75	105	14	4-14
25	1	83	79	85	115	15	4-14
40	1 ½	98	98	110	150	16	4-14
50	2	114	121	125	165	18	4-16
65	2 ½	127	140	145	185	20	4-16
80	3	146	152	160	200	20	4-16
100	4	178	190	180	220	22	4-16

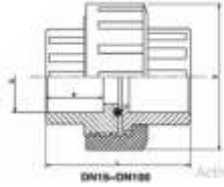


VAN STONE

SIZE	MAX O.D.	L	M	N	R	Bolt Circle Dia.	No. of Bolt Holes	Bolt Size	Min. Bolt Length
1/2	3 1/2	1 1/32	1 3/16	7/32	1/2	2 3/8	4	1/2	2
3/4	3 27/32	1 1/8	1 15/32	5/16	9/16	2 25/32	4	1/2	2
1	4 7/32	1 1/4	1 23/32	5/16	9/16	3 1/8	4	1/2	2 1/4
1 1/4	4 9/16	1 5/16	2 1/8	9/32	9/16	3 1/2	4	1/2	2 1/4
1 1/2	4 15/16	1 15/32	2 3/8	7/16	23/32	3 29/32	4	1/2	2 1/2
2	5 15/16	1 19/32	2 29/32	15/32	25/32	4 23/32	4	5/8	3
2 1/2	6 15/16	1 29/32	3 9/16	9/16	15/16	5 15/32	4	5/8	3 1/4
3	7 15/32	2 7/32	4 9/32	5/8	1 1/16	5 31/32	8	5/8	3 1/4
4	8 29/32	2 1/16	5 1/4	5/8	1 3/32	7 13/32	8	5/8	3 1/2

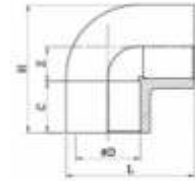
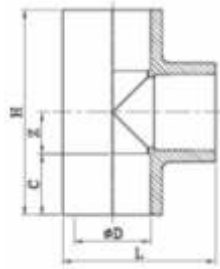


UNION



SIZE		E	D	L	P
A	B				
15	½	54	20	56	22
20	¾	63	25	61	24
25	1	74	32	66	25
40	1½	98	50	94	33
50	2	117	63	91	36
65	2½	150	75	110	46
80	3	169	90	156	50
100	4	210	110	156	60

ITEM	PARTS	MATERIAL	PCS
1	End Connector	• U-PVC	1
2	Union Nut	• C-PVC	1
3	Body	• PPH	1
4	O-ring	• EPDM • FKM	1

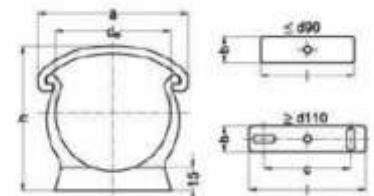
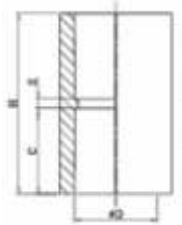


TEE

SIZE		D	ØD	C	Z	H	L
A	B						
15	½	20	20.00	16.20	11.00	55.40	40.34
20	¾	25	25.00	19.20	13.50	65.40	48.40
25	1	32	32.00	22.20	17.00	78.40	58.36
32	1¼	40	40.00	26.20	21.00	94.40	70.42
50	2	63	63.00	38.20	32.50	141.40	107.40
65	2½	75	75.00	44.20	38.50	165.40	125.70
80	3	90	90.00	51.20	46.00	194.40	149.40

ELBOW

SIZE		D	ØD	C	Z	H & L
A	B					
15	½	20	20.00	16.20	11.00	40.34
20	¾	25	25.00	19.20	14.00	48.85
25	1	32	32.00	22.20	17.00	58.36
40	1½	50	50.00	31.20	26.00	85.38
50	2	63	63.00	38.20	32.50	106.00
65	2½	75	75.00	44.20	39.00	124.25
80	3	90	90.00	51.20	44.00	147.50



COUPLER

SIZE		D	ØD	C	Z	H
A	B					
15	½	20	20.00	16.20	3.00	35.40
20	¾	25	25.00	19.20	3.00	41.40
25	1	32	32.00	22.20	3.00	47.40
32	1¼	40	40.00	26.20	3.00	55.40
40	1½	63	63.00	31.20	3.40	65.80
50	2	63	63.00	38.20	3.00	79.40
65	2½	75	75.00	44.20	4.00	92.40
80	3	90	90.00	51.20	5.00	107.40

PIPE CLAMP

SIZE		SIZE	de	A	B	H	I	Bolt Hole
A	B							
15	½	25	25	33	14	42	24	7
20	¾	32	34	43	15	52	32	7
25	1	40	42	58	15	60	40	7
32	1¼	50	52	68	16	70	50	7
40	1½	63	65	85	17	82	63	7
50	2	75	78	100	18	96	75	8
65	2½	90	94	118	20	115	90	8
80	3							

All Size in mm



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PIPES



U-PVC PIPES



FEATURES

- * Easy Handling and installation
- * Excellent Chemical and Corrosion Resistance
- * Durable performance because of no attachment of scale or rust on smooth inner surface

NOMINAL PIPE SIZE		OUTSIDE DIAMETER	TOLERANCE	WALL DIAMETER	TOLERANCE	APPROX INSIDE DIAMETER	NORMAL WEIGHT
mm		mm		mm		mm	kg/m
15	½	20	0.2	3	0.2	14	0.22
15	½	20*	0.2	3.5	0.2	13	0.25
15	½	20*	0.2	4	0.2	12	0.28
20	¾	25	0.2	3	0.2	19	0.29
20	¾	25*	0.2	4	0.2	17	0.37
20	¾	25*	0.2	5	0.2	15	0.44
25	1	32*	0.3	2.6	0.2	26.8	0.34
25	1	32	0.3	3	0.2	26	0.38
25	1	32*	0.3	3.5	0.2	25	0.44
32	1¼	40*	0.3	3	0.2	34	0.49
32	1¼	40	0.3	3.5	0.2	33	0.56
32	1¼	40*	0.3	4	0.2	32	0.63
40	1½	50	0.3	3.4	0.3	42.6	0.75
40	1½	50*	0.3	4.5	0.3	41	0.90
50	2	63	0.4	4.7	0.3	53.6	1.20
65	2½	75	0.4	5.6	0.3	63.8	1.71
80	3	90	0.4	5.3	0.3	79.4	1.97
100	1	110	0.4	6	0.4	98	2.74

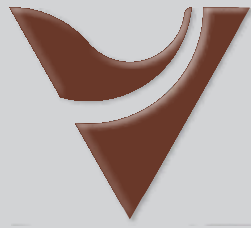
*Marked sizes are produced only against quantity requirements and therefore please take prior confirmation before placing order.



FEATURES

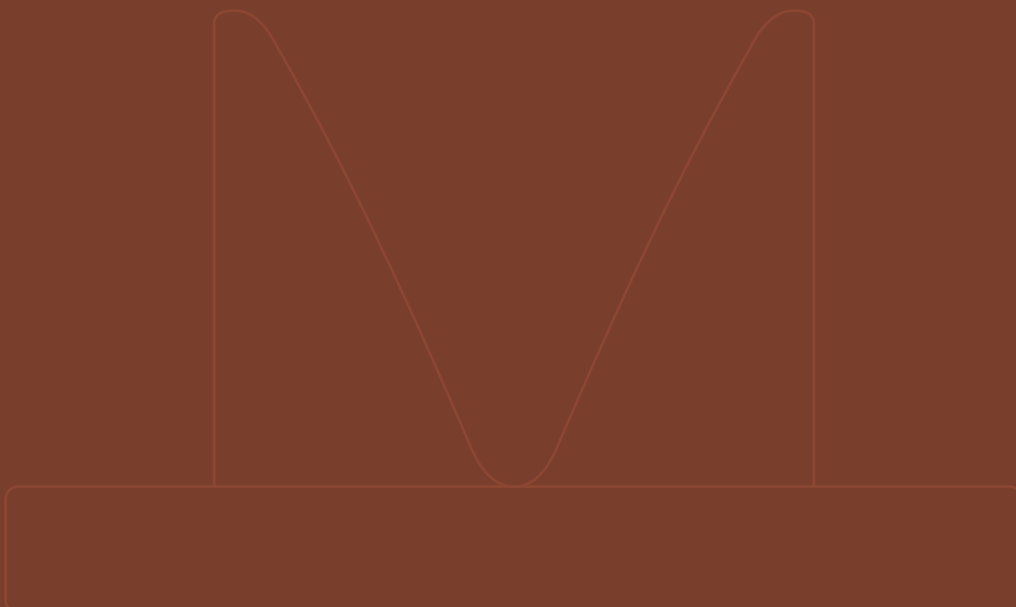
- * Excellent Chemical Resistance
- * Ease of installation due to great fusion capabilities
- * High Thermal Resistance
- * High Impact Strength

NOMINAL PIPE SIZE		OUTSIDE DIAMETER	TOLERANCE	WALL THICKNESS	TOLERANCE	APPROX INSIDE DIAMETER	MAX PRESSURE
mm	inch	mm		mm		mm	Mpa
15	½	20	0.2	1.9	0.2	16.2	10
15	½	20	0.2	2.8	0.2	14.4	16
20	¾	25	0.2	2.3	0.2	20.4	10
20	¾	25	0.2	3.5	0.2	18.0	16
25	1	32	0.3	1.8	0.2	28.4	6
25	1	32	0.3	2.9	0.2	26.2	10
25	1	32	0.3	4.4	0.2	23.2	16
32	1¼	40	0.3	2.3	0.2	35.4	6
32	1¼	40	0.3	3.7	0.2	32.6	10
32	1¼	40	0.3	5.5	0.2	29.0	16
40	1½	50	0.3	2.9	0.3	44.0	6
40	1½	50	0.4	4.6	0.3	40.8	10
50	2	63	0.4	3.6	0.3	55.8	6
65	2½	75	0.4	4.3	0.3	66.4	6
80	3	90	0.4	5.1	0.3	79.8	6
100	4	110	0.4	6.3	0.4	97.4	6



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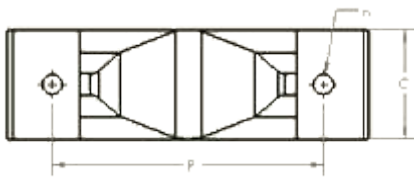
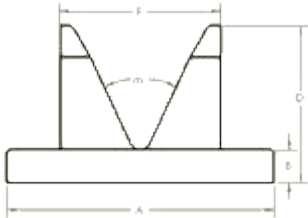
ENGINEERED PRODUCTS





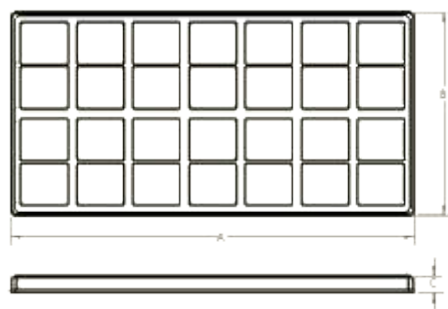
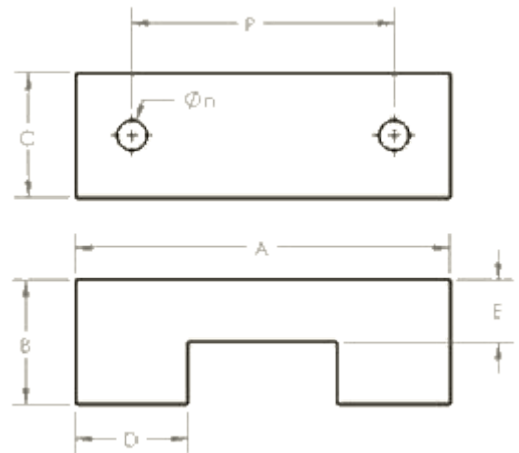
PP VBLOCK

SIZE	A	B	C	D	E	P	n	m
Very Small	150	25	40	97	90	110	12	50°
Small	150	45	40	116	90	110	12	50°
Medium	200	25	60	122	120	150	12	50°
Large	220	35	100	115	140	170	12	50°



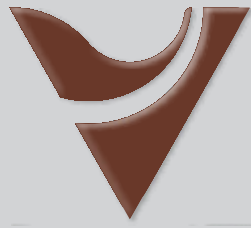
RUBBER BUFFER

SIZE	A	B	C	D	E	P	n
Very Small	150	50	40	45	25	110	12
Small	150	50	40	45	25	110	12
Medium	200	50	60	45	25	150	12
Large	220	50	100	45	25	170	12



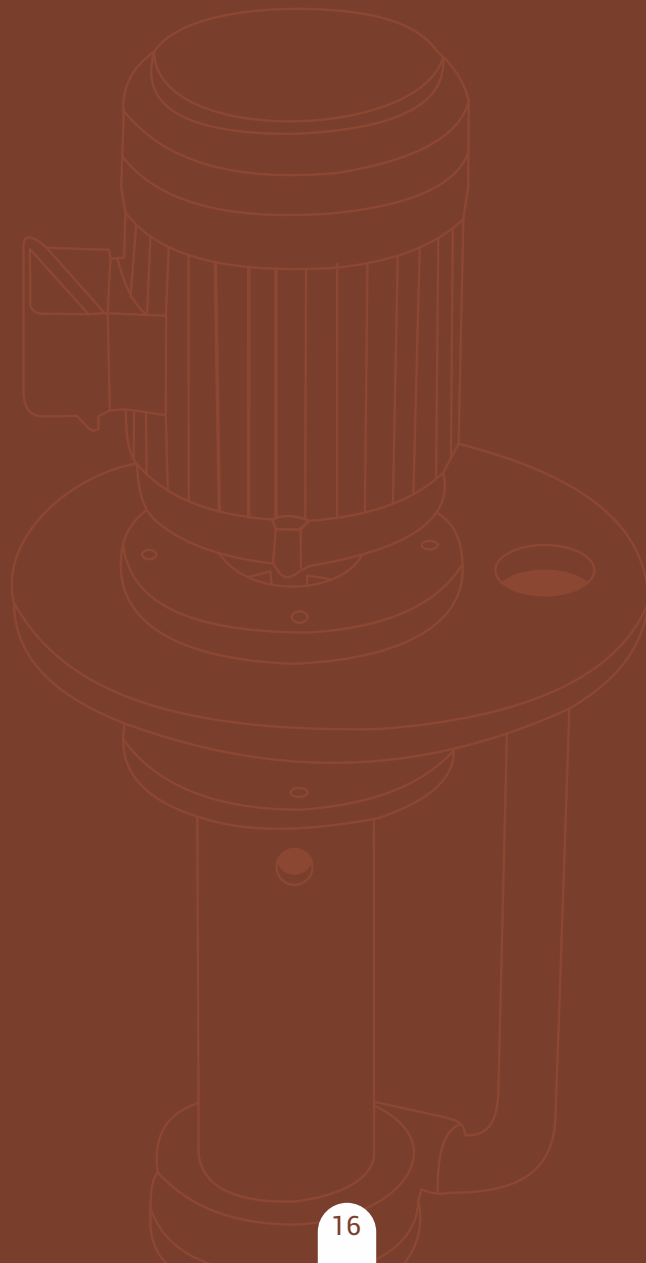
DRYER TRAY

A	B	C
32 In	16 In	1.5 In



VISHAL
INDUSTRIES

PUMPS



VERTICAL IMMERSION PUMPS

SERIES: AM50 – PP



40000 - 50000 L/H

40-50 cu.m/h

Vertical single stage centrifugal immersion pump, seal less and dry-run safe for non-pressurized tank application.

The AM50 series combines maximum hydraulic efficiency with a robust, compact and reliable construction, resulting in maximum installation uptime and a long service life.

FEATURES

- * Extended Shaft Motor, hence no coupling wear and vibrations
- * Very easy, leak free, in-tank installation
- * Impeller locked (no damage with wrong rotation direction)
- * Including complete union end
- * Free turning shaft, no seal or bearing, can run dry
- * Self priming when flooded
- * Including suction strainer
- * Max. temperature PP 80°C
- * High quality electric motor:
 - 3 phase, 50 Hz, 1440/2880 rpm, IP55
 - with double layer 2C chemical resistant coating
 - full length SS shaft with PP protection pipe
 - including PP drip cover, fan cover and wiring box
 - suitable for frequency drive control
 - stainless steel fasteners

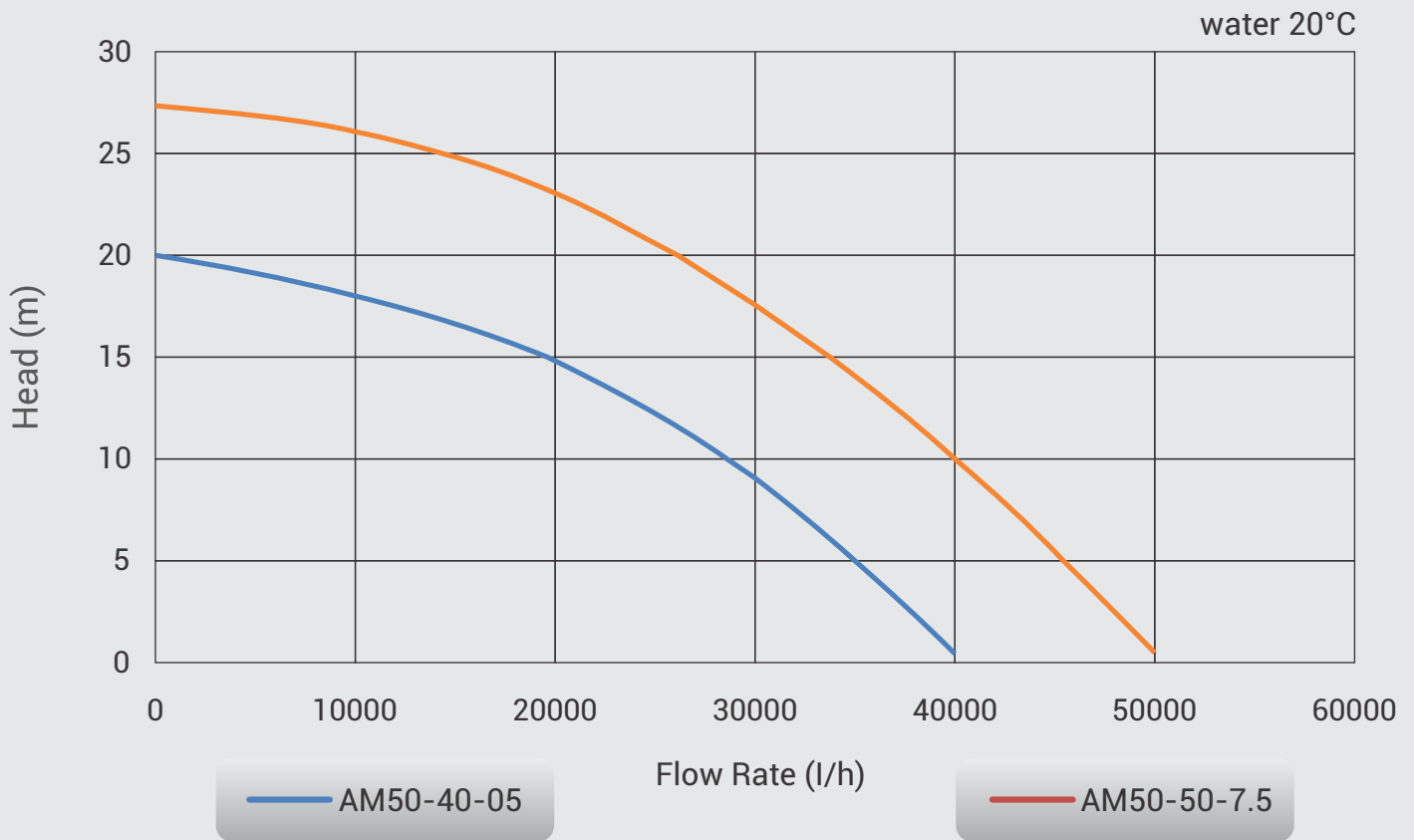
OPTIONS

- * Customized shaft material
- * Suction extension pipe
- * Customized immersion length
- * Union socket in PVC or CPVC

Type	Material	Q max (l/h)	H max (m)	Motor		RPM	I nom (A)	Out (d/DN)
				kW	HP			
AM50-40-05	PP	40000	20	3.75	5	2880	6.8	50/40
AM50-50-7.5		50000	27	5.5	7.5	2880	10.2	50/40



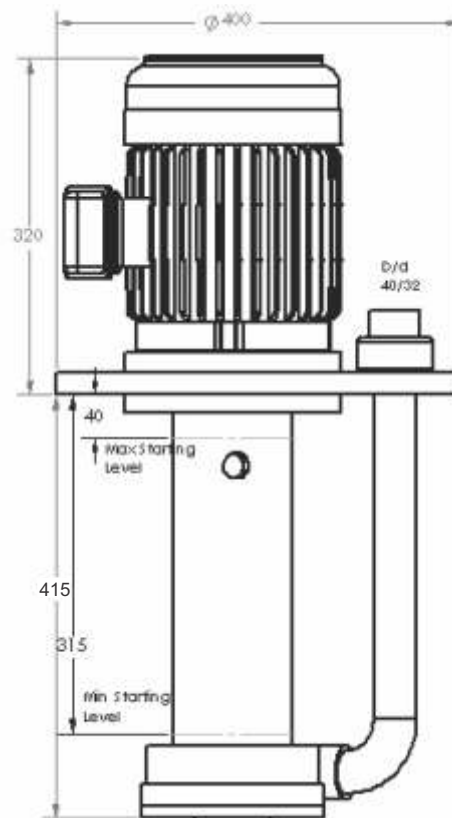
PUMP PERFORMANCE CHART



EXPLODED VIEW



DIMENSIONS



VERTICAL IMMERSION PUMPS

SERIES: AM18 – PP



8000 - 18000 L/H

8-18 cu.m/h

Vertical single stage centrifugal immersion pump, seal less and dry-run safe for non-pressurized tank application.

The AM18 series combines maximum hydraulic efficiency with a robust, compact and reliable construction, resulting in maximum installation uptime and a long service life.

FEATURES

- * Extended Shaft Motor, hence no coupling wear and vibrations
- * Very easy, leak free, in-tank installation
- * Impeller locked (no damage with wrong rotation direction)
- * Including complete union end
- * Free turning shaft, no seal or bearing, can run dry
- * Self priming when flooded
- * Including suction strainer
- * Max. temperature PP 80°C
- * High quality electric motor:
 - 3 phase, 50 Hz, 1440/2880 rpm, IP55
 - with double layer 2C chemical resistant coating
 - full length SS shaft with PP protection pipe
 - including PP drip cover, fan cover and wiring box
 - suitable for frequency drive control
 - stainless steel fasteners

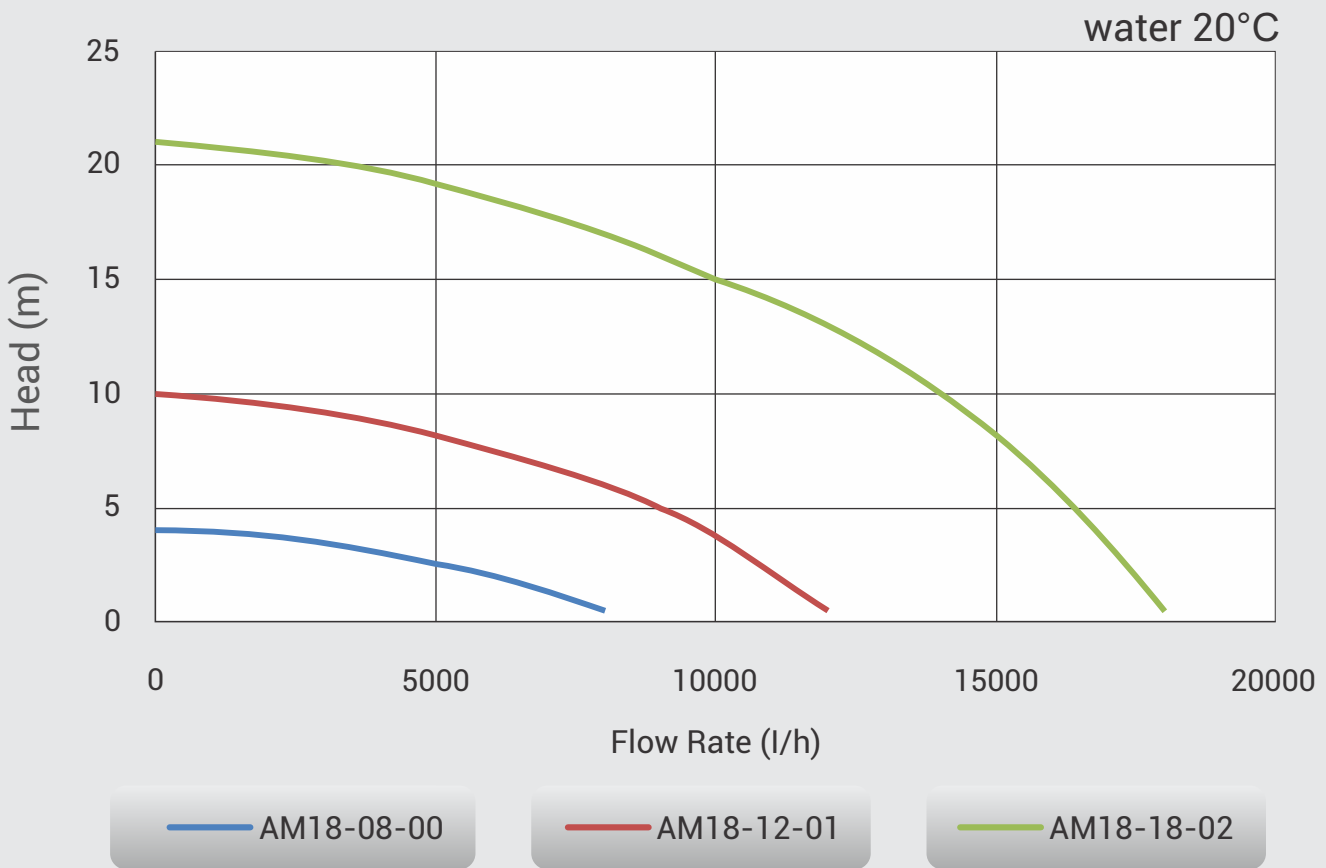
OPTIONS

- * Customized shaft material
- * Suction extension pipe
- * Customized immersion length
- * Union socket in PVC or CPVC

Type	Material	Q max (l/h)	H max (m)	Motor		RPM	I nom (A)	Out (d/DN)
				kW	HP			
AM18-08-00	PP	8000	4	0.38	0.5	1440	1	40/32
AM18-12-01		12000	10	0.75	1	2880	1.7	40/32
AM18-18-02		18000	21	1.5	2	2880	3.2	40/32



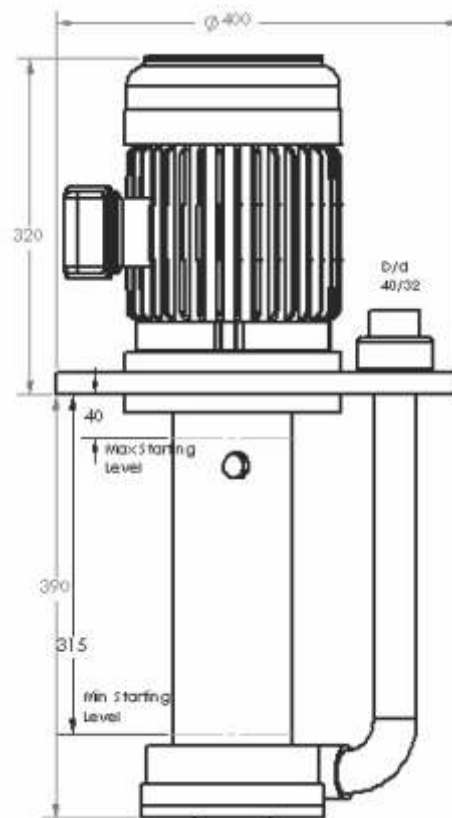
PUMP PERFORMANCE CHART



EXPLODED VIEW



DIMENSIONS



Basic Physical Property Of Material For Valve

Characteristic of Material

	Material	Abbreviation	General Characteristic
Valve Body	Polyvinyl Chloride	PVC	Resistant against most of acids, alkalis and sodium of high to low concentration level, however tends to be attacked by some chemicals such as aromatic hydrocarbon, ketones, esters and chlorinated hydrocarbon.
	Chlorinated Polyvinyl Chloride	HT CPVC	Almost same properties as PVC however higher heat resistance and usable for higher temperature application than PVC.
	Polypropylene	PP	Resist against most of acids, alkalis and salts however weak resistant against strong acids such as highly-concentrated nitric acid, chrome acid and mixture of them. Resistant against many solvents (specifically the solvent with active group), however tends to be attacked by chlorine-containing solvents, aliphatic series and aromatic hydro-carbon.
	Glass Fiber reinforced polypropylene (Trade name Teflon)	GF-PP	Glass fiber reinforced PP (polypropylene) has higher mechanical properties and temperature resistance than PP. High chemical resistance and light weight.
	Polyvinylodene difluoride	PVDF	Highly resistant in higher temperature range, against ordinary acids and chemicals, however broken down by fuming sulfuric acid and strong basic amines. Usable conditions & application are limited for ketones, amides, esters, solvents and alkalis.

Seal Material Etc.	Polytetra-fluoroethylene	PTFE	Highly resistant against ordinary acids and alkalis, and not dissolved nor changed by ordinary solvent medium. Attacked by melted alkali metal and by fluorine and chlorine trifluoride in high temperature.
	Ethylene Propylene Rubber	EPDM	Chemical resistant and ozone resistant. Comparatively resistant against ketones and esters, however weak resistant against aromatics, aliphatic families, gasoline and oil.
	Fluor rubber (Trade name Viton)	FKM	Highly resistant against ordinary chemicals, especially acids. Resistant against oils, however attacked by ketones, ammonia anhydride, concentrated caustic soda, etc.
	Chlorinated polyethylene	FKM-FB	Enhanced FKM in chemical resistance. Superior resistant especially against high-temperature acids and highly concentrated acids. Remarkably low metal elution by chemicals. Same level of oil-resistance and high temperature resistance as FKM.
	Polyvinylidene chloride	PVDC	Almost same properties as PVC however resistant and durability in higher temperature.

Basic Physical Property of Material for Valve at Temp. 23°C

Material		UPVC	HT CPVC	PPH	GF-PP	PVDF	PTFE
Property	Unit						
Density	g/cc	1.43	1.48	0.92	1.04	1.77	2.17
Water Absorption	mg/m ²	0.04~0.06	0.04~0.06	0.01		0.04±	0.00
Tensile Strength Yield	Mpa	50~55	50~55	35~40	77~83	49~54	17~22
Modulus of Elasticity	Mpa	2.5~3.0x10 ³	2.5~3.0x10 ³	1.0~1.5x10 ³	3.3~3.8x10 ³	2.3~2.8x10 ³	3.7~4.2x10 ²
Flexural Strength	Mpa	78~89	88±	24~35	93~98	64±	
Sharp Impact Strength	kJ/m ²	5~10	10~15	3~8	7~12	17~21	2~5
Hear Deflection Temperature	°C	61~66	98~103	118~123	145~150	145~150	
Linear Expansion Coefficient	/°C	7X10 ⁻⁵	7X10 ⁻⁵	12X10 ⁻⁵	4.5X10 ⁻⁵	12X10 ⁻⁵	10X10 ⁻⁵
Thermal Conductivity	W/m·K	0.15	0.14	0.12		0.12	0.7
Dielectric Strength	kV/mm	40±	40±	26	26	70	
Volume Resistivity	Ωcm	5.3X10 ¹⁵ ±	5.3X10 ¹⁵ ±	4.9X10 ¹⁵ ±		5X10 ¹⁵ ±	1X10 ¹⁸

* This data is intended to serve as reference.



VISHAL INDUSTRIES

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