UNIMECH GROUP BERHAD (Company No: 407580-X)

A MEMBER OF UNIMECH GROUP, MALAYSIA

WAFER TYPE BUTTERFLY VALVE ARITA SERIES
(PIN) MULTIPLE FLANGED

The ARITA Series body design neck with octagon shape offers esthetic appearance, strength and compatible flange connection to international standards. Its top flange is designed to ISO5211 for the direct mounting of gear operator or actuators which eliminate the cost of mounting bracket. The one piece design body provides outstanding protection against particle entrapment and bacterial growth. ARITA offers various materials for the valves seat and disc to meet the various requirements of customers. The fine finishing of seat surfaces and the polished edge of disc give good sealing and reduction in operating torque.

ISO 9001:2008 CERTIFICATE NO. 0436-2002-AQ-RGC-RVA-Rev.1

Pressure accessory CERTIFICATE NO. 4588-2014-CE-RGC-ACCREDIA

Notified Body No. 0496 CERTIFICATE NO. 4590-2014-CE-RGC-ACCREDIA

Det Norske Veritas Rules for Classification of Ships Det Norske Veritas Standards for Certification 2.9 No.5.794.40 CERTIFICATE NO. P-12613

SIRIM BS EN 593:2004 PA046601

CARSO 12 MAT LY 093 F-MC058-b SEAT / QUALIFICATION CERTIFICATE NO.

WRAS AW / M80310 1404521 SEAT / QUALIFICATION CERTIFICATE NO.

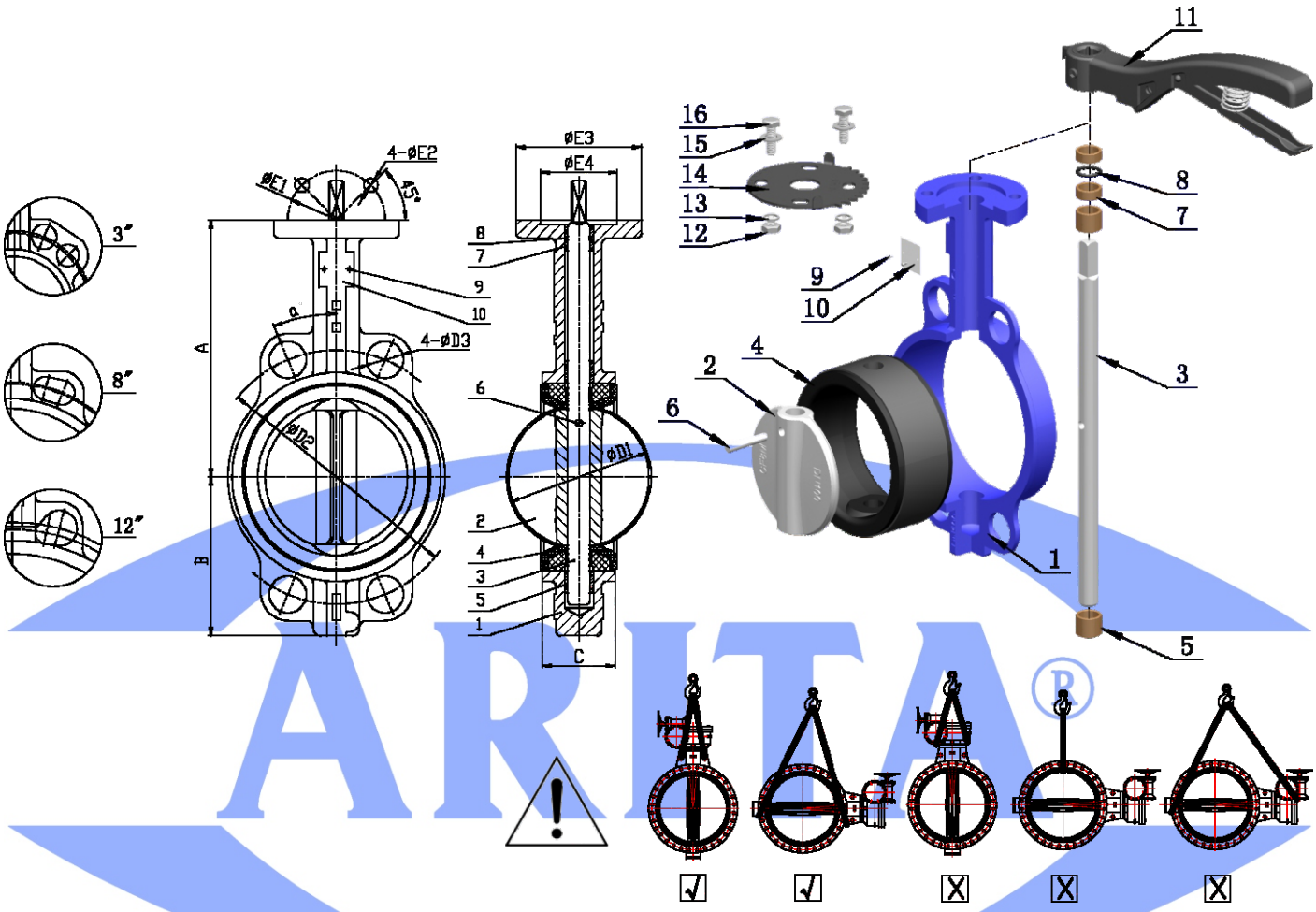
CERTIFICATE OF REGISTRATION ARITA 0701283 TRADEMARK REGISTRATION From 14/06/2007 to 13/06/2017

Dimensions in mm

SIZES DN	SIZES In.	A	B	C	ØD1	ØD2	ØD3	a°	ØE1	ØE2	ØE3	ØE4	TORQUE (Nm) PN 10	TORQUE (Nm) PN 16	Cv	WT. (KG)
40	1 1/2	136	69	32.0	42.6	105.60	23.0	45.00	50	7	65	35	13	13	18	1.6
50	2	156	80	42.0	52.9	120.00	24.0	45.00	50	7	65	35	14	15	29	2.1
65	2 1/2	162	89	44.7	64.5	136.13	28.0	45.00	50	7	65	35	15	17	53	2.4
80	3	170	95	45.2	78.8	152.40 154.50	24.5 24.5	45.00 22.50	50	7	65	35	22	23	82	2.9
100	4	185	114	52.1	104.3	182.50	27.0	22.50	70	10	90	55	37	40	129	4.0
125	5	207	127	54.4	123.3	212.50	26.0	22.50	70	10	90	55	58	62	210	5.9
150	6	216	139	55.8	156.0	238.12	26.0	22.50	70	10	90	55	94	102	304	7.2
200	8	256	175	60.6	202.5	293.00 296.07	26.0 27.0	15.00 22.50	102	12	125	70	174	192	537	11.8
250	10	248	203	65.6	250.8	357.00	30.5	15.00	102	12	125	70	286	323	782	18.1
300	12	280	242	76.9	301.6	400.00 416.70	25.0 40.5	11.25 15.00	102	12	125	70	429	490	1161	26.6

Dimension included ANSI125/150, JIS10K, (EN1092-2, BS4504, DIN2501) PN10/16, AS2129 TABLE E

Note : Cv = US Gallon per minutes



☑ ☑ ☒ ☒ ☒

Material

No.	PART	QTY.	MATERIAL
1	BODY	1	CAST IRON / DUCTILE IRON
2	DISC	1	DUCTILE IRON / COATING NYLON / PTFE / NICKEL ALUMINIUM BRONZE / CF8 / CF8M / POLISHED
3	STEM	1	SUS 416 / SUS 316 / SUS 431
4	SEAT	1	NBR / EPDM / VITON / SILICONE
5	BUSHING	2	PTFE
6	PIN	1~2	SUS 304 / SUS 316 / SUS 431
7	BUSHING	2	PTFE
8	`O´ RING	1	NBR / EPDM / VITON
9	RIVET	2	ALUMINIUM
10	NAMEPLATE	1	ALUMINIUM
11	LOCKABLE HANDLE	1	STAMPING W/EPOXY COATING
12	HEX NUT	2	CARBON STEEL / SUS 304
13	SPRING WASHER	2	SPRING STEEL / SUS 304
14	INDICATOR	1	STAMPING W/EPOXY COATING
15	WASHER	2	CARBON STEEL / SUS 304
16	HEX BOLT	2	CARBON STEEL / SUS 304

Working Temperature

Temperature °C	-10 ~ 80	-15 ~ 140	-20 ~ 150	-50 ~ 200
Seat Material	NBR	EPDM	VITON	SILICONE

Pressure Test

Working Pressure		1.0 MPa	1.6 MPa	10K	ANSI 125	ANSI 150
Hydrostatic Test	Seal	1.1 MPa	MPa	1.54 MPa	1.52 MPa	2.2 MPa
	Body	1.5 MPa	2.4 MPa	2.1 MPa	2.1 MPa	3.0 MPa

Standard:

Design Standard	: BS EN593
Face to Face	: BS EN558-1
Flange Connection	: EN1092-1 PN10/16 JIS B2210 10K
	: DIN 2501 PN10/16 ANSI B16 125/150
	: AS 2129 TABLE E
Top Flange	: ISO 5211
Test Standard	: BS EN12266-1 / API 598

ARITA

www.unimechgroup.com

A MEMBER OF UNIMECH GROUP, MALAYSIA

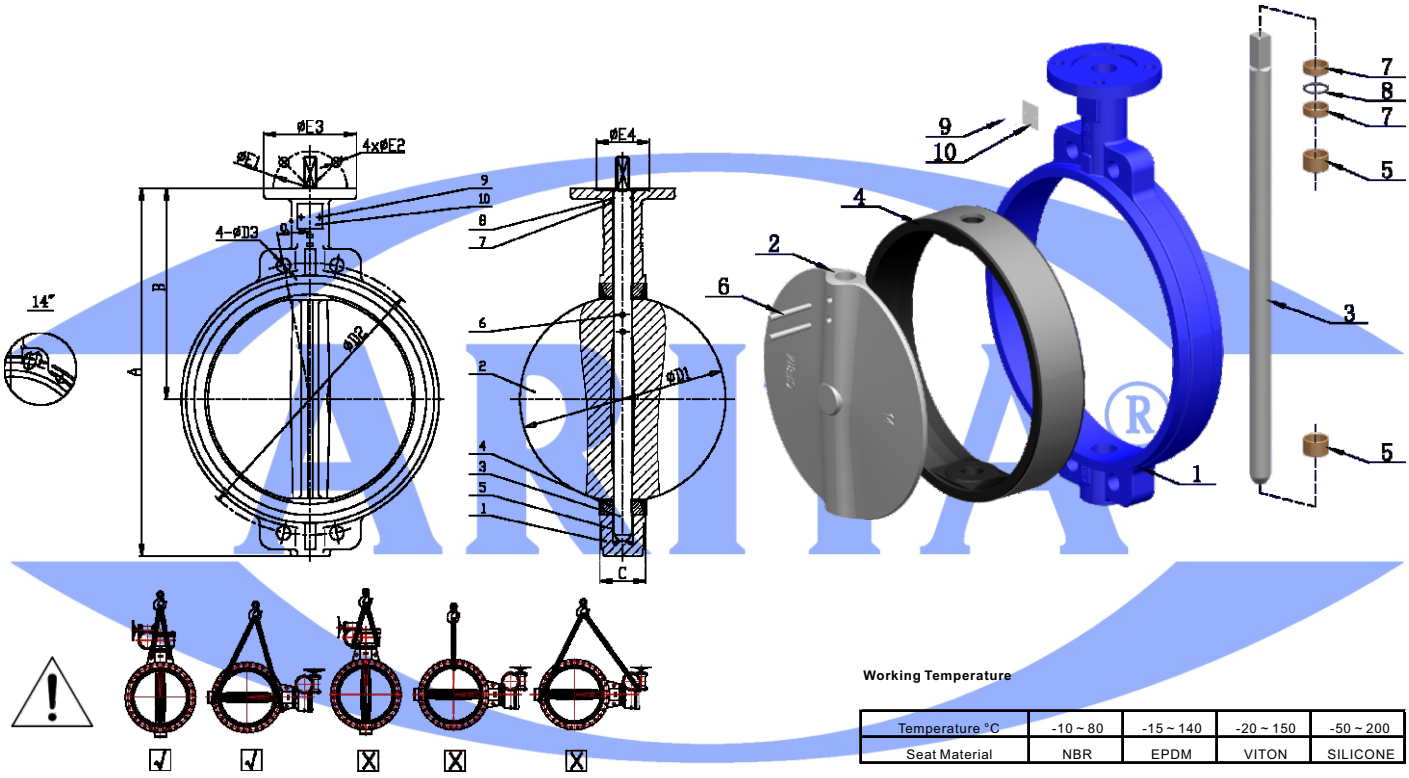
Dimensions in mm

Technical Data

SIZES DN	SIZES In.	A	B	C	ØD1	ØD2	ØD3	a°	ØE1	ØE2	ØE3	ØE4	TORQUE (Nm) PN 10	TORQUE (Nm) PN 16	Cv	WT. (KG)
350	14	635	368	75.0	333.5	445.00 470.00 476.20	25.0 28.0 32.5	11.25 11.25 15.00	102	12	125	70	550	625	1564	47.4

Dimension included ANSI125/150, JIS10K, (EN1092-2, BS4504, DIN2501) PN10/16, AS2129 TABLE E

Note : Cv = US Gallon per minutes



Working Temperature

Temperature °C	-10 ~ 80	-15 ~ 140	-20 ~ 150	-50 ~ 200
Seat Material	NBR	EPDM	VITON	SILICONE

Material

No.	PART	QTY.	MATERIAL
1	BODY	1	CAST IRON / DUCTILE IRON
2	DISC	1	DUCTILE IRON / COATING NYLON / PTFE / NICKEL ALUMINIUM BRONZE / CF8 / CF8M / POLISHED
3	STEM	1	SUS 416 / SUS 316 / SUS 431
4	SEAT	1	NBR / EPDM / VITON / SILICONE
5	BUSHING	2	PTFE
6	PIN	2	SUS 304 / SUS 316 / SUS 431
7	BUSHING	2	PTFE
8	`O´ RING	1	NBR / EPDM / VITON
9	RIVET	2	ALUMINIUM
10	NAMEPLATE	1	ALUMINIUM

Pressure Test

Working Pressure		1.0 MPa	1.6 MPa	10K	ANSI 125	ANSI 150
Hydrostatic Test	Seal	1.1 MPa	MPa	1.54 MPa	1.52 MPa	2.2 MPa
	Body	1.5 MPa	2.4 MPa	2.1 MPa	2.1 MPa	3.0 MPa

Standard:

Design Standard	: BS EN593
Face to Face	: BS EN558-1
Flange Connection	: EN1092-1 PN10/16 JIS B2210 10K
	: DIN 2501 PN10/16 ANSI B16 125/150
	: AS 2129 TABLE E
Top Flange	: ISO 5211
Test Standard	: BS EN12266-1 / API 598

ARITA

www.unimechgroup.com

A MEMBER OF UNIMECH GROUP, MALAYSIA

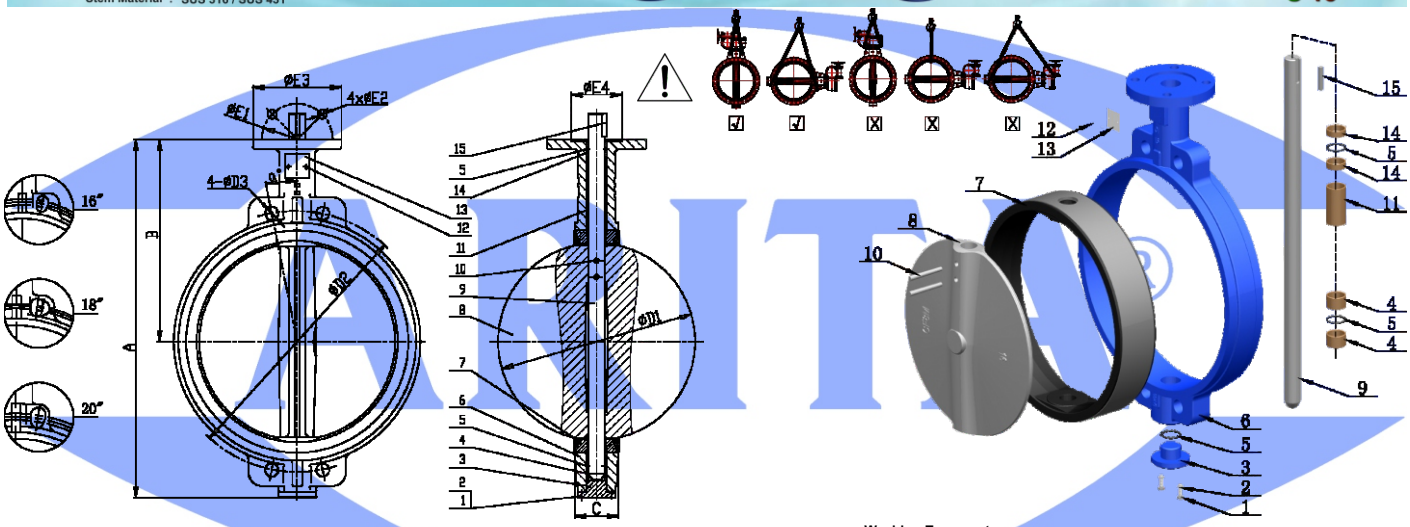
Technical Data

Dimensions in mm

SIZES DN	SIZES In.	A	B	C	ØD1	ØD2	ØD3	a°	ØE1	ØE2	ØE3	ØE4	TORQUE(Nm) PN 10	TORQUE(Nm) PN 16	Cv	WT. (KG)
400	16	709	400	85.7	389.6	510.00 515(525) 539.70	27.0 28(31) 28.4	11.25 11.25 11.25	140	18	175	100	755	846	2087	97.6
450	18	750	422	104.6	440.5	565.00 577.80 585.00	27.0 31.8 31.0	9.00 11.25 9.00	140	18	175	100	1012	1131	2681	116.2
500	20	840	480	130.3	491.6	620.00 635.00 650.00	28.0 31.8 34.0	9.00 9.00 9.00	140	18	175	100	1350	1431	3350	146.6

Dimension included ANSI125/150, JIS10K, (EN1092-2, BS4504, DIN2501) PN10/16, AS2129 TABLE E

Note : Cv = US Gallon per minutes



Material

No.	PART	QTY.	MATERIAL
1	HEX BOLT	2~4	CARBON STEEL / SUS 304
2	SPRING WASHER	2~4	SPRING STEEL / SUS 304
3	COVER	1	CAST IRON / DUCTILE IRON
4	BUSHING	2	PTFE / BRONZE
5	`O´ RING	3	NBR / EPDM / VITON
6	BODY	1	CAST IRON / DUCTILE IRON
7	SEAT	1	NBR / EPDM / VITON / SILICONE
8	DISC	1	DUCTILE IRON NICKEL PLATED ALUMINIUM BRONZE / CF8 / CF8M / POLISHED
9	STEM	1	SUS 416 / SUS 316 / SUS 431
10	TAPER PIN	2	SUS 316
11	BUSHING	1	PTFE / BRONZE
12	NAMEPLATE	1	ALUMINIUM
13	RIVET	2	ALUMINIUM
14	BUSHING	2	PTFE / BRONZE
15	KEY	1	CARBON STEEL

Working Temperature

Temperature °C	-10 ~ 80	-15 ~ 140	-20 ~ 150	-50 ~ 200
Seat Material	NBR	EPDM	VITON	SILICONE

Pressure Test

Working Pressure		1.0 MPa	1.6 MPa	10K	ANSI 125	ANSI 150
Hydrostatic Test	Seal	1.1 MPa	MPa	1.54 MPa	1.52 MPa	2.2 MPa
	Body	1.5 MPa	2.4 MPa	2.1 MPa	2.1 MPa	3.0 MPa

Standard:

Design Standard	: BS EN593
Face to Face	: BS EN558-1
Flange Connection	: EN1092-1 PN10/16 JIS B2210 10K
	: DIN 2501 PN10/16 ANSI B16 125/150
	: AS 2129 TABLE E
Top Flange	: ISO 5211
Test Standard	: BS EN12266-1 / API 598

ARITA

www.unimechgroup.com

A MEMBER OF UNIMECH GROUP, MALAYSIA

UNIMECH GROUP BERHAD (Company No: 407580-X)

A MEMBER OF UNIMECH GROUP, MALAYSIA

WAFER TYPE BUTTERFLY VALVE ARITA SERIES
(PINLESS) MULTIPLE FLANGED

The ARITA Series body design neck with octagon shape offers esthetic appearance, strength and compatible flange connection to international standards. Its top flange is designed to ISO5211 for the direct mounting of gear operator or actuators which eliminate the cost of mounting bracket. The one piece design body provides outstanding protection against particle entrapment and bacterial growth. ARITA offers various materials for the valves seat and disc to meet the various requirements of customers. The fine finishing of seat surfaces and the polished edge of disc give good sealing and reduction in operating torque. The upper and lower shafts are well supported and properly sealed to prevent leakage. This pin less design has eliminated the potential of leak through pin hole.

ISO 9001:2008 CERTIFICATE NO. 0436-2002-AQ-RGC-RVA-Rev.1 | Pressure accessory CERTIFICATE NO. 4588-2014-CE-RGC-ACCREDIA | CE Notified Body No. 0496 CERTIFICATE NO. 4590-2014-CE-RGC-ACCREDIA | Det Norske Veritas Rules for Classification of Ships Det Norske Veritas Standards for Certification 2.9 No.5.794,40 CERTIFICATE NO. P-12613 | SIRIM BS EN 593:2004 PA046601 | CARSO 12 MAT LY 093 F-MC058-b SEAT / QUALIFICATION CERTIFICATE HR | WRAS AW / M80310 1404521 SEAT / QUALIFICATION CERTIFICATE HR | CERTIFICATE OF REGISTRATION ARITA 07011283 TRADEMARK REGISTRATION From 14/08/2007 to 13/08/2017

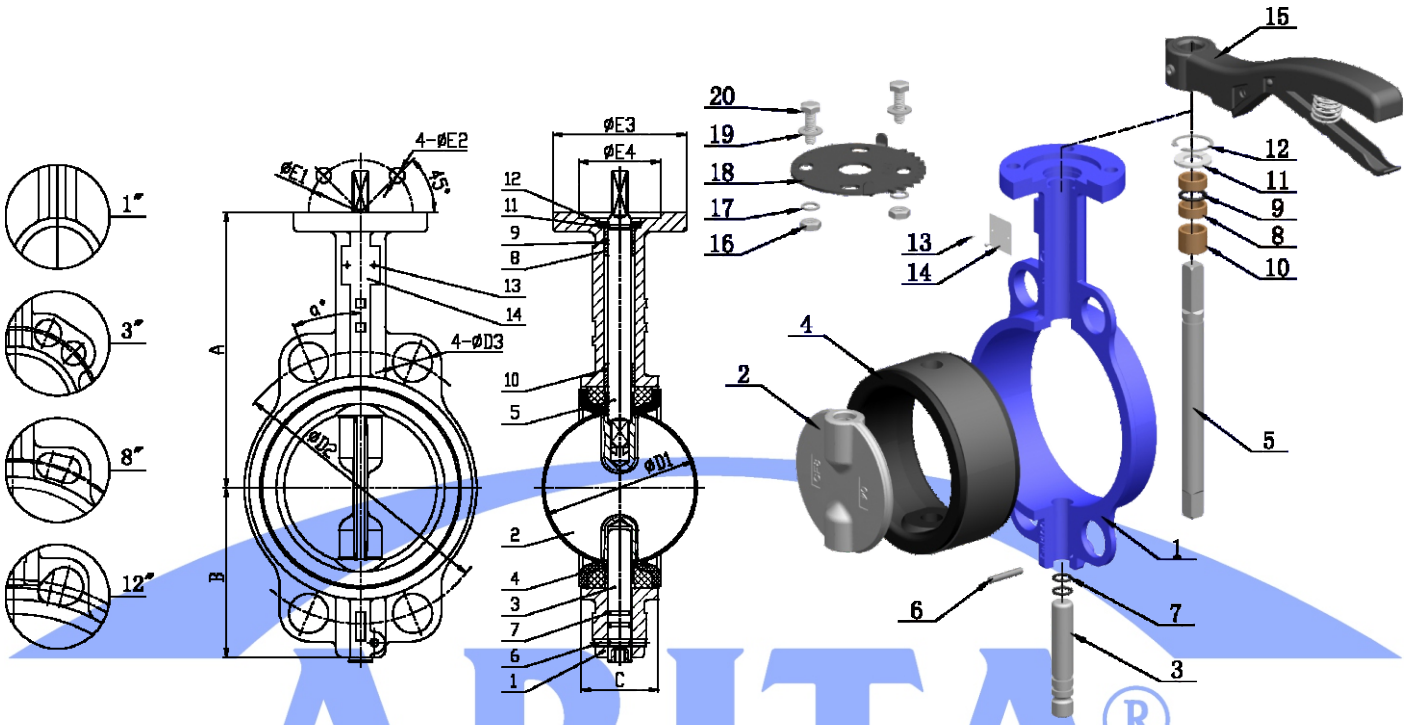
Dimensions in mm

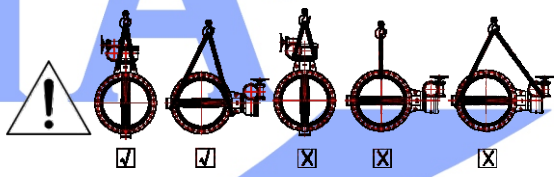
Technical Data

SIZES DN	SIZES In.	A	B	C	ØD1	ØD2	ØD3	a°	ØE1	ØE2	ØE3	ØE4	* TORQUE (Nm) PTFE	PN 10	PN 16	Cv	WT. (KG)
25	1	88	44	30.0	28.8	———	———	———	50	7	65	35	———	11	11	14	0.8
40	1 1/2	136	69	32.0	42.6	105.60	23.0	45.00	50	7	65	35	17	13	13	19	1.7
50	2	156	80	42.0	52.9	120.00	24.0	45.00	50	7	65	35	18	14	15	31	2.1
65	2 1/2	162	89	44.7	64.5	136.13	28.0	45.00	50	7	65	35	20	15	17	55	2.5
80	3	170	95	45.2	78.8	152.40 154.50	24.5 24.5	45.00 22.50	50	7	65	35	29	22	23	87	2.9
100	4	185	114	52.1	104.3	182.50	27.0	22.50	70	10	90	55	48	37	40	140	4.2
125	5	207	127	54.4	123.3	212.50	26.0	22.50	70	10	90	55	75	58	62	224	5.9
150	6	216	139	55.8	156.0	238.12	26.0	22.50	70	10	90	55	122	94	102	328	7.2
200	8	256	175	60.6	202.5	293.00 296.07	26.0 27.0	15.00 22.50	102	12	125	70	226	174	192	572	12.2
250	10	248	203	65.6	250.8	357.00	30.5	15.00	102	12	125	70	372	286	323	837	18.3
300	12	280	242	76.9	301.6	400.00 416.70	25.0 40.5	11.25 15.00	102	12	125	70	558	429	490	1241	27.8

Dimension included ANSI125/150, JIS10K, (EN1092-2, BS4504, DIN2501) PN10/16, AS2129 TABLE E

Note : Cv = US Gallon per minutes





IF PTFE SEAT ONLY WITH PN10
PTFE TEMPERATURE DEPEND ON THE LINED RUBBER
* Torque PTFE / Torque PN10&16 for Rubber Seat
* 1" without PTFE seat

Material

No.	PART	QTY.	MATERIAL
1	BODY	1	CAST IRON / DUCTILE IRON
2	DISC	1	DUCTILE IRON / COATING NYLON / PTFE / NICKEL ALUMINIUM BRONZE / CF8 / CF8M / POLISHED
3	LOWER STEM	1	SUS 416 / SUS 316 / SUS 431
4	SEAT	1	NBR / EPDM / VITON / SILICONE / PTFE LINED NBR PTFE LINED EPDM / PTFE LINED VITON
5	UPPER STEM	1	SUS 416 / SUS 316 / SUS 431
6	LOCK PIN	1	SUP 6
7	LOWER `O´ RING	2	NBR / EPDM / VITON
8	BUSHING	2	PTFE
9	`O´ RING	1	NBR / EPDM / VITON
10	BUSHING	1	PTFE
11	HALF RING	2	SUS 416
12	RETAINER RING	1	SPRING STEEL
13	RIVET	2	ALUMINIUM
14	NAMEPLATE	1	ALUMINIUM
15	LOCKABLE HANDLE	1	STAMPING W/EPOXY COATING
16	HEX NUT	2	CARBON STEEL / SUS 304
17	SPRING WASHER	2	SPRING STEEL / SUS 304
18	INDICATOR	1	STAMPING W/EPOXY COATING
19	WASHER	2	CARBON STEEL / SUS 304
20	HEX BOLT	2	CARBON STEEL / SUS 304

Pressure Test

Working Pressure		1.0 MPa	1.6 MPa	10K	ANSI 125	ANSI 150
Hydrostatic Test	Seal	1.1 MPa	MPa	1.54 MPa	1.52 MPa	2.2 MPa
	Body	1.5 MPa	2.4 MPa	2.1 MPa	2.1 MPa	3.0 MPa

Working Temperature

Temperature °C	-10 ~ 80	-15 ~ 140	-20 ~ 150	-20 ~ 180	-50 ~ 200
Seat Material	NBR	EPDM	VITON	PTFE	SILICONE

Standard:

Design Standard	: BS EN593
Face to Face	: BS EN558-1
Flange Connection	: EN1092-1 PN10/16 JIS B2210 10K
	: DIN 2501 PN10/16 ANSI B16 125/150
	: AS 2129 TABLE E
Top Flange	: ISO 5211
Test Standard	: BS EN12266-1 / API 598

ARITA

www.unimechgroup.com

A MEMBER OF UNIMECH GROUP, MALAYSIA

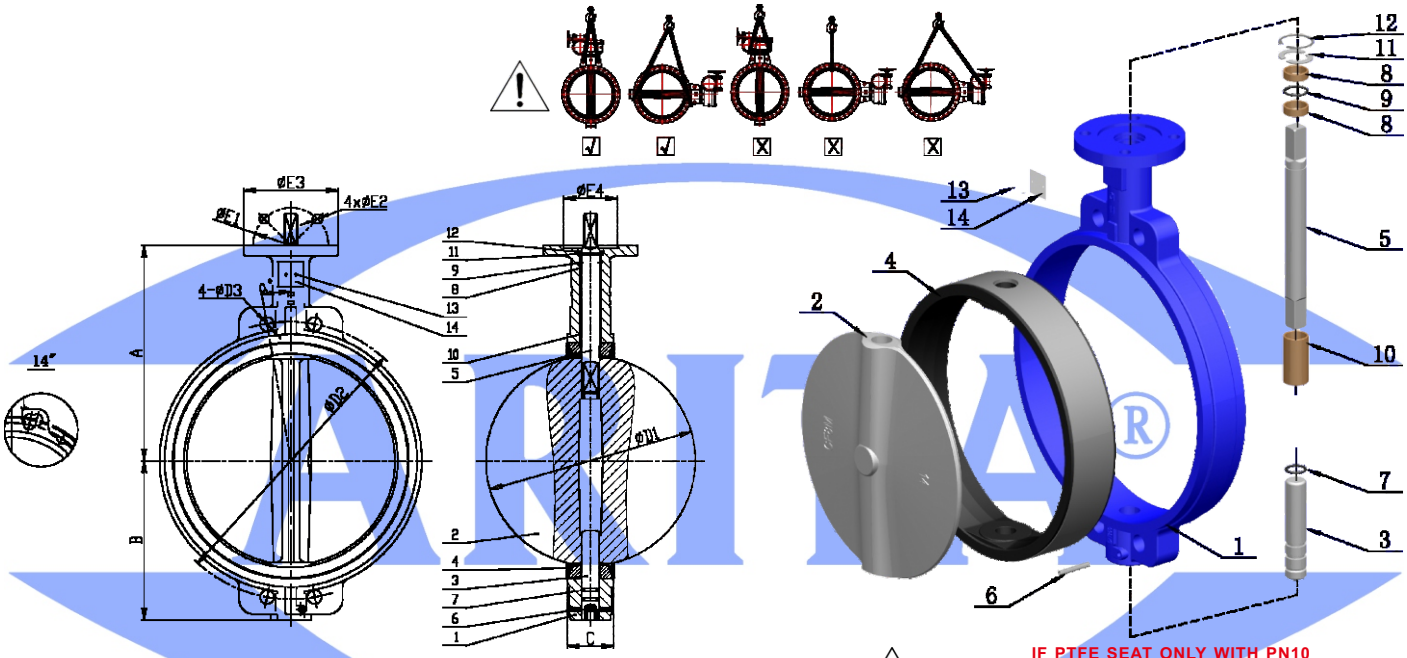
Dimensions in mm

Technical Data

SIZES		A	B	C	ØD1	ØD2	ØD3	a°	ØE1	ØE2	ØE3	ØE4	* TORQUE (Nm)			Cv	WT. (KG)
DN	In.												PTFE	PN 10	PN 16		
350	14	368	267	75	333.5	445.0 470.0 476.2	25.0 28.0 32.5	11.25 11.25 15.00	102	12	125	70	715	550	625	1564	47.4

Dimension included ANSI125/150, JIS10K, (EN1092-2, BS4504, DIN2501) PN10/16, AS2129 TABLE E

Note : Cv = US Gallon per minutes



IF PTFE SEAT ONLY WITH PN10
PTFE TEMPERATURE DEPEND ON THE LINED RUBBER
* Torque PTFE / Torque PN10&16 for Rubber Seat

Material

No.	PART	QTY.	MATERIAL
1	BODY	1	CAST IRON / DUCTILE IRON
2	DISC	1	DUCTILE IRON / COATING NYLON / PTFE / NICKEL ALUMINIUM BRONZE / CF8 / CF8M / POLISHED
3	LOWER STEM	1	SUS 416 / SUS 316 / SUS 431
4	SEAT	1	NBR / EPDM / VITON / SILICONE / PTFE LINED NBR PTFE LINED EPDM / PTFE LINED VITON
5	UPPER STEM	1	SUS 416 / SUS 316 / SUS 431
6	LOCK PIN	1	SUP 6
7	LOWER `O´ RING	2	NBR / EPDM / VITON
8	BUSHING	2	PTFE
9	`O´ RING	1	NBR / EPDM / VITON
10	BUSHING	1	PTFE
11	HALF RING	2	SUS 416
12	RETAINER RING	1	SPRING STEEL
13	RIVET	2	ALUMINIUM
14	NAMEPLATE	1	ALUMINIUM

Pressure Test

Working Pressure		1.0 MPa	1.6 MPa	10K	ANSI 125	ANSI 150
Hydrostatic Test	Seal	1.1 MPa	MPa	1.54 MPa	1.52 MPa	2.2 MPa
	Body	1.5 MPa	2.4 MPa	2.1 MPa	2.1 MPa	3.0 MPa

Working Temperature

Temperature °C	-10 ~ 80	-15 ~ 140	-20 ~ 150	-20 ~ 180	-50 ~ 200
Seat Material	NBR	EPDM	VITON	PTFE	SILICONE

Standard:

Design Standard	: BS EN593
Face to Face	: BS EN558-1
Flange Connection	: EN1092-1 PN10/16 JIS B2210 10K
	: DIN 2501 PN10/16 ANSI B16 125/150
	: AS 2129 TABLE E
Top Flange	: ISO 5211
Test Standard	: BS EN12266-1 / API 598

ARITA

www.unimechgroup.com

A MEMBER OF UNIMECH GROUP, MALAYSIA

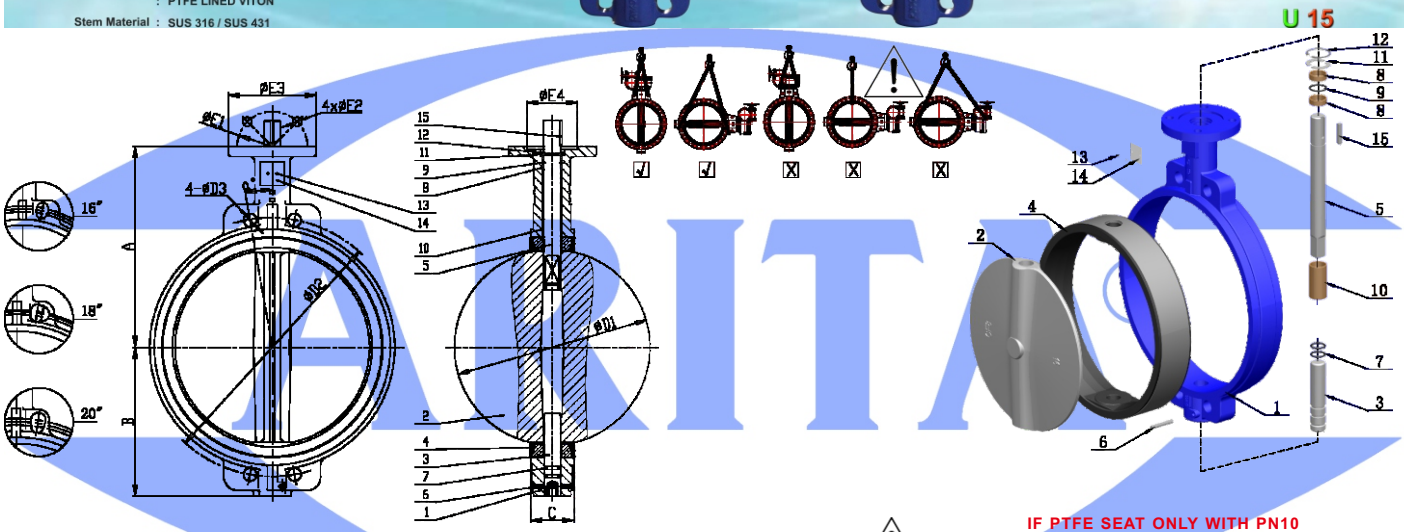
Dimensions in mm

Technical Data

SIZES DN	SIZES In.	A	B	C	ØD1	ØD2	ØD3	a°	ØE1	ØE2	ØE3	ØE4	* TORQUE (Nm) PTFE	* TORQUE (Nm) PN 10	* TORQUE (Nm) PN 16	Cv	WT. (KG)
400	16	400	297	85.7	389.6	510.0 515(525) 539.7	27.0 28(31) 28.4	11.25 11.25 11.25	140	18	175	100	982	755	846	2087	97.6
450	18	422	315	104.6	440.5	565.0 577.8 585.0	27.0 31.8 31.0	9.00 11.25 9.00	140	18	175	100	1316	1012	1131	2681	116.3
500	20	480	348	130.3	491.6	620.0 635.0 650.0	28.0 31.8 34.0	9.00 9.00 9.00	140	18	175	100	1755	1350	1431	3350	146.6

Dimension included ANSI125/150, JIS10K, (EN1092-2, BS4504, DIN2501) PN10/16, AS2129 TABLE E

Note : Cv = US Gallon per minutes



Material

No.	PART	QTY.	MATERIAL
1	BODY	1	CAST IRON / DUCTILE IRON
2	DISC	1	DUCTILE IRON / COATING NYLON / PTFE / NICKEL ALUMINIUM BRONZE / CF8 / CF8M / POLISHED
3	LOWER STEM	1	SUS 416 / SUS 316 / SUS 431
4	SEAT	1	NBR / EPDM / VITON / SILICONE / PTFE LINED NBR PTFE LINED EPDM / PTFE LINED VITON
5	UPPER STEM	1	SUS 416 / SUS 316 / SUS 431
6	LOCK PIN	1	SUP 6
7	LOWER `O´ RING	2	NBR / EPDM / VITON
8	BUSHING	2	PTFE
9	`O´ RING	1	NBR / EPDM / VITON
10	BUSHING	1	PTFE
11	HALF RING	2	SUS 416
12	RETAINER RING	1	SPRING STEEL
13	RIVET	2	ALUMINIUM
14	NAMEPLATE	1	ALUMINIUM
15	KEY	1	CARBON STEEL

IF PTFE SEAT ONLY WITH PN10
PTFE TEMPERATURE DEPEND ON THE LINED RUBBER
* Torque PTFE / Torque PN10&16 for Rubber Seat

Pressure Test

Working Pressure		1.0 MPa	1.6 MPa	10K	ANSI 125	ANSI 150
Hydrostatic Test	Seal	1.1 MPa	MPa	1.54 MPa	1.52 MPa	2.2 MPa
	Body	1.5 MPa	2.4 MPa	2.1 MPa	2.1 MPa	3.0 MPa

Working Temperature

Temperature °C	-10 ~ 80	-15 ~ 140	-20 ~ 150	-20 ~ 180	-50 ~ 200
Seat Material	NBR	EPDM	VITON	PTFE	SILICONE

Standard:

Design Standard	: BS EN593
Face to Face	: BS EN558-1
Flange Connection	: EN1092-1 PN10/16 JIS B2210 10K
	: DIN 2501 PN10/16 ANSI B16 125/150
	: AS 2129 TABLE E
Top Flange	: ISO 5211
Test Standard	: BS EN12266-1 / API 598

ARITA

www.unimechgroup.com

A MEMBER OF UNIMECH GROUP, MALAYSIA